

**Interim Remedial Measures  
for  
Al Tech Specialty Steel Site  
NYSDEC Site No. 9-07-022  
City of Dunkirk  
Chautauqua County, New York**

**Volume II  
Site Investigation Report, AL Tech Specialty Steel Site, Dunkirk, Chautauqua  
County, New York, Site No. 9-07-022**

**October 2007**

**Prepared for:**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233

**Prepared by:**

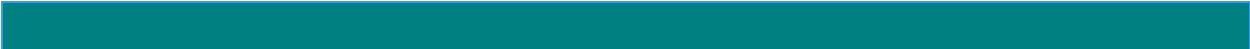
**ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.**  
368 Pleasant View Drive  
Lancaster, New York 14086

# Table of Contents

| Section         | Page                                                       |
|-----------------|------------------------------------------------------------|
| <b>1</b>        | <b>Introduction ..... 1-1</b>                              |
| <b>2</b>        | <b>Scope of Work..... 2-1</b>                              |
| <b>3</b>        | <b>Sampling Investigation Methodology..... 3-1</b>         |
| 3.1             | Direct-Push Soil Sampling..... 3-1                         |
| 3.2             | Surface Water Grab Sampling..... 3-2                       |
| 3.3             | Brick and Mortar Sampling..... 3-2                         |
| 3.4             | Quality Assurance/Quality Control (QA/QC) Samples..... 3-2 |
| 3.5             | Decontamination Activities..... 3-3                        |
| 3.6             | Investigation-derived Waste..... 3-3                       |
| 3.7             | Health and Safety Monitoring ..... 3-3                     |
| <b>4</b>        | <b>Changes to the Planned Work ..... 4-1</b>               |
| <b>5</b>        | <b>Site Geology ..... 5-1</b>                              |
| <b>6</b>        | <b>Mapping ..... 6-1</b>                                   |
| <b>7</b>        | <b>Summary of Analytical Results..... 7-1</b>              |
| <b>8</b>        | <b>Observations and Conclusions ..... 8-1</b>              |
| <b>9</b>        | <b>Recommendations..... 9-1</b>                            |
| <b>10</b>       | <b>References ..... 10-1</b>                               |
| <b>Appendix</b> |                                                            |
| <b>A</b>        | <b>Figures..... A-1</b>                                    |
| <b>B</b>        | <b>Tables ..... B-1</b>                                    |

## Table of Contents (cont.)

| Appendix |                                                     | Page       |
|----------|-----------------------------------------------------|------------|
| <b>C</b> | <b>Data Usability Summary Reports (DUSRs) .....</b> | <b>C-1</b> |
| <b>D</b> | <b>Boring Logs.....</b>                             | <b>D-1</b> |



## List of Tables

| Table |                                                                          | Page |
|-------|--------------------------------------------------------------------------|------|
| 1     | Figures Describing Sampling and Analytical Results.....                  | 7-1  |
| 2     | Metals, SVOCs, and VOC, Analyte Maximum and Minimum Concentrations ..... | 7-3  |
| 3     | TCLP Analyte Maximum and Minimum Concentrations.....                     | 7-5  |
| 4     | Water Sample Analyte Maximum and Minimum Concentrations.....             | 7-6  |



## List of Abbreviations and Acronyms

|        |                                                         |
|--------|---------------------------------------------------------|
| bgs    | below ground surface                                    |
| CLP    | Contract Laboratory Program                             |
| DUSR   | Data Usability Report                                   |
| EEEP   | Ecology and Environment Engineering, P.C.               |
| EPA    | U.S. Environmental Protection Agency                    |
| IRM    | interim remedial measures                               |
| LAP    | Lucas Avenue Plant                                      |
| mg/kg  | milligram per kilogram                                  |
| MS/MSD | matrix spike/matrix spike duplicate                     |
| µg/L   | microgram per liter                                     |
| NAD    | North American datum                                    |
| NYCRR  | New York Code of Rules and Regulations                  |
| NYSDEC | New York State Department of Environmental Conservation |
| PAHs   | polycyclic aromatic hydrocarbons                        |
| PID    | photoionization detector                                |
| PPE    | personal protective equipment                           |
| ppm    | parts per million                                       |
| QA     | quality assurance                                       |
| QC     | quality control                                         |
| SCO    | soil cleanup objective                                  |
| SVOC   | semi-volatile organic compound                          |

## List of Abbreviations and Acronyms (cont.)

|      |                                            |
|------|--------------------------------------------|
| TCLP | toxicity characteristic leaching procedure |
| VOC  | volatile organic compound                  |

# 1

## Introduction

The primary objective of the site investigation activities was to collect additional soil sample and surface water analytical data to further characterize the site and ultimately support decision-making regarding potential future remedial actions at the site. The investigation was conducted at the AL Tech Specialty Steel Lucas Avenue Plant (LAP) site, located in the city of Dunkirk, Chautauqua County, New York (see Figure 1 in Appendix A). This report has been prepared by Ecology and Environment Engineering, P.C. (EEEPC) on behalf of the New York State Department of Environmental Conservation (NYSDEC).

This report includes the following appendices:

- A. Figures
- B. Tables (summarized analytical data)
- C. Data Usability Summary Reports (DUSRs)
- D. Boring Logs

All site investigation work was performed in accordance with the approved procedures in EEEPC's March 2007 *Work Plan for Sampling and Analysis to Complete Final Engineering Report* (Ecology and Environment Engineering, P.C. 2007), unless otherwise specified. A summary of the work and any necessary modifications to the field investigation are provided below.

# 2

## Scope of Work

EEEEPC conducted site investigation activities from July 9, 2007 through July 12, 2007. The site investigation focused on shallow, sub-slab fill materials throughout the site and the areas adjacent to the 2006 interim remedial measures (IRM) excavation limits. The shallow, sub-slab fill materials were suspected of providing a preferential pathway for the migration of soil and groundwater contamination.

Other remaining on-site soil areas that may be affected by contaminants above cleanup objectives (as defined by NYSDEC Part 375, Restricted Commercial Soil Cleanup Objectives [SCOs]), as indicated by previous investigations and observations made during the IRM construction, include:

- The remaining barium-contaminated soil area (area under the remaining pit down to the bedrock);
- Lead contamination to the south of the 2006 chromium-impacted soils excavation area;
- Areas to the south of the chromium-impacted soils excavation area caused by the former heat-treating ovens that show visible impacts (yellow, crystalline material) when it rains;
- Areas south of the now demolished building perimeter and south of the south fence line (to investigate the extent of impacts revealed in the IRM pre-mobilization samples);
- Soils associated with a pipe that leads away from the former furnace area pit towards the railroad tracks to the south, as observed during the IRM; and
- The remaining on-site industrial buildings, including the pickling rooms.

# 3

## Sampling Investigation Methodology

The site investigation comprised collecting:

- Subsurface soil samples using direct-push technology at 81 locations;
- Grab surface water sampling at five locations; and
- Grab brick/mortar samples at two locations.

### 3.1 Direct-Push Soil Sampling

A continuous soil core sample was collected from grade to a depth that ranged from approximately 1 to 12 feet below ground surface (bgs) at each soil boring location (Figures 1-1 through 1-3). The drilling subcontractor, Nothnagle Drilling of Scottsdale, NY, used direct-push technology (Geoprobe) to collect the soil cores (Geoprobe Macro-Core). The Macro-Core system allows discrete, continuous samples of soil to be collected in dedicated acetate liners. Nothnagle Drilling utilized 4-foot Macro-Core sleeves. Upon retrieval, each liner was cut longitudinally and the soil core was inspected. Recovery varied at each location (see Appendix D, Boring Logs). EEEPC recorded pertinent lithologic information (including soils descriptions) and screened the headspace of the soil for organic vapors using a 10.6 electron volts photoionization detector (PID). EEEPC collected soil samples from each boring for chemical analysis for hazardous metals and barium using U.S. Environmental Protection Agency (EPA) Methods SW6010/7471 and for cyanide analysis using EPA Method SW9010. Soil samples screened with a PID reading of 5 parts per million (ppm) or higher were also analyzed for volatile organic compounds (VOCs) using EPA Methods SW8260, SW8270, and SW8082. Samples were analyzed by Mitkem Corporation of Warwick, Rhode Island. Once sampling was completed, the boreholes were backfilled with the soil from each location to the extent practicable. Bentonite was used to fill the remainder of the hole (except for surface patching in concrete or asphalt paved areas).

### **3.2 Surface Water Grab Sampling**

EEEPC collected five surface water grab samples (ATSS-WS-01 through ATSS-WS-05) from miscellaneous pits, vaults, and depressions (Figures 1-1 through 1-3), as follows:

- Surface water grab samples ATSS-WS-01 and ATSS-WS-04 were collected in the former West Production Area.
- ATSS-WS-05 was collected in the former West Pickling Room.
- ATSS-SW-03 was collected in the former East Production Area.
- ATSS-WS-02 was collected from a vault located outside and south of the former East Pickling Room.

Each sample was collected as a grab sample. Therefore, no purging was conducted and water quality parameters (such as conductivity, pH, temperature, etc.) were not collected. Each sample was collected using a dedicated, disposable bailer. EEEPC submitted the surface water samples for VOCs, semi-volatile organic compounds (SVOCs) and metals analyses using EPA Methods SW8260, SW8270, and SW6010/7470, respectively. Samples were analyzed by Mitkem Corporation.

### **3.3 Brick and Mortar Sampling**

EEEPC collected two brick and mortar samples (BM-NW-EPR and BM-SW-EPA), one each from the north wall of the former east pickling room and the south wall of the former east production area (Figures 1-1 through 1-3). The sample locations were selected based on visible staining such as yellow/green discoloration and were collected into sampling containers by chipping the brick and mortar using a chisel and hammer. EEEPC submitted the samples for chemical analysis for hazardous metals and barium using EPA Methods SW6010/7471 and for cyanide using EPA Method SW9010. Samples were analyzed by Mitkem Corporation.

### **3.4 Quality Assurance/Quality Control (QA/QC) Samples**

Quality control (QC) samples included duplicates and matrix spike/matrix spike duplicates (MS/MSD) associated with soil sampling. Duplicate samples are intended to provide insight as to the homogeneity of the sample matrix and establish a degree of confidence that the sample represents site conditions. Field duplicates were collected at a rate of one duplicate per 10 original samples (10%) and MS/MSDs were collected at a rate of one MS/MSD per 20 original samples (5%). A review of the QC sample results is provided in the Data Usability Summary Reports (DUSRs) in Appendix C.

### **3. Sampling Investigation Methodology**

In addition, a trip blank for the water samples was collected to establish that the transport of sample vials to and from the field did not result in the contamination of the samples from external sources. The trip blank consisted of sample vials containing laboratory deionized water. The trip blank was shipped to the field with the empty sample vials and back to the laboratory from the field with the water sample shipment. Trip blank results are discussed in the DUSRs in Appendix C.

#### **3.5 Decontamination Activities**

EEEPC required the drilling subcontractor, Nothnagle Drilling, to decontaminate any equipment coming in contact with subsurface soils after each use at a temporary decontamination area consisting of a metal basin for scrubbing, plastic sheeting to contain any spills, and drums to contain the wastewater for disposal. Sampling methods and equipment were chosen to minimize decontamination requirements and prevent the possibility of cross-contamination. Intrusive sampling equipment was decontaminated before and after each location was drilled and sampled. Equipment was decontaminated by removing foreign matter, scrubbing the equipment with brushes in a water solution with laboratory-grade detergent (e.g., Alconox), rinsing with potable water, rinsing with a final deionized or distilled water rinse, and air drying.

#### **3.6 Investigation-derived Waste**

Minor amounts of soil were generated during direct-push Macro-Core sampling. These soils were placed back in the hole from which they came after samples were logged. Small volumes of decontamination water were also generated. The decontamination water was placed into two 55-gallon steel drums that were sealed, labeled, and stored on-site on the east end of the former East Production Area pending laboratory analysis of the soil and surface water samples. Drum labels describe their contents, the site name, location where the material was generated, and the date the waste was generated.

A specific drum water sample was not collected. Soil and surface water grab sample laboratory results (collected during the investigation) for VOCs, SVOCs, and metals will be used to determine if specific toxicity characteristic leaching procedure (TCLP) drum sample analysis is necessary for drum disposal. Once laboratory data are obtained, Nothnagle Drilling will haul the wastewater off-site to an appropriate disposal facility. Because NYSDEC is the waste generator, EEEPC will coordinate drum hauling with the NYSDEC project manager to ensure that NYSDEC is available to sign the waste shipping manifest(s).

#### **3.7 Health and Safety Monitoring**

During intrusive site activities, the EEEPC site safety officer monitored air quality to characterize airborne contaminant concentrations, including those of volatile organic vapors and explosive gases. The PID was used to monitor the concentration of organic vapors in the workers' breathing zone and adjacent to the sample

### ***3. Sampling Investigation Methodology***

locations during intrusive sampling. An oxygen/explosive gas meter was also used during intrusive activities to monitor for potentially explosive conditions. A Mini-Ram particulate monitor was used to monitor dust levels in ambient air. The monitoring indicated that there were no chemical or air quality impacts on worker health and safety. All work was performed in Level D personal protective equipment (PPE) (i.e., no respiratory protection was required).



# 4

## Changes to the Planned Work

Some sample locations or collection procedures were adjusted due to field conditions, as follows:

- Backfill installed during the 2006 IRM was encountered at proposed soil sample location ATSS-ID-12, so this boring was moved approximately 10 feet south of the initially proposed location. At the second location, refusal was encountered due to approximately 2 feet of concrete. Therefore, no sample could be collected from this location.
- Proposed off-site soil sample locations ATSS-SP-03 and ATSS-SP-05 were not probed because these locations were found to be on railroad property.
- Boreholes were drilled to 4 feet bgs, although some were deeper to capture the fill above the clay layer. Geoprobe refusal was encountered at depths ranging from 1 to 7.5 feet bgs at soil boring locations ATSS-EPR-01, ATSS-EPR-02, ATSS-GS-09, ATSS-ID-02, ATSS-ID-11, ATSS-ID-13, and ATSS-SP-12. Reasons for refusal included concrete, gravel, and weathered shale. At sample location ATSS-SP-12, a railroad tie and gravel were encountered. Despite encountering refusal, a soil sample was obtained at each of these locations.
- Outside soil sample locations south of the former West and East Production Areas (ATSS-SP-08, ATSS-SP-09, ATSS-SP-10, ATSS-SP-11, ATSS-SP-12, and ATSS-SP-15) were not probed because access was restricted by overgrown plants, shrubs, and trees. Instead of probing each location, the soil samples were obtained using a hand auger or shovel until refusal was met at depths ranging from 1 to 3 feet bgs.
- Four soil sample locations (ATSS-ID-14, ATSS-ID-15, ATSS-ID-16, and ATSS-ID-17) were added to the scope of work. The samples were collected in the IRM demolition area to determine if contamination existed in the soil near the IRM excavation limits.
- Soil sample location (ATSS-WPA-05) was added. This sample was collected inside the former West Production Area to determine if the soil near the vault at this location is contaminated.

#### **4. Changes to the Planned Work**

- Soil sample location (ATSS-SP-16) was added. This sample was collected outside and south of the former East Pickling Room to determine if the soil near the vault is contaminated.
- Grab surface water sample (ATSS-WS-02) was added to the scope of work. The sample was collected in a vault outside and south of the former East Pickling Room to determine if contamination exists inside the vault.

A few soil boring locations were moved slightly from the proposed locations due to on-site restrictions (e.g., utility lines, trees, equipment inside building, etc). The actual boring locations are shown on Figures 1-1 through 1-3. Outside soil sample locations south of the former West and East Production Areas (ATSS-SP-13, ATSS-SP-14, and ATSS-SP-16) were drilled once a path was cleared through existing overgrown weeds, shrubs, etc. for the Geoprobe rig.

# 5

## Site Geology

The overburden (consisting mostly of fill) across the site was investigated with soil borings and found to average about 12 feet thick. Bedrock at this site consists of dark gray weathered shale. Due to shallow drilling depths and/or auger refusal, no weathered shale was encountered near the former East Pickling Room, East Production Area, West Pickling Room, West Production Area, or south perimeter. The overburden/fill averaged approximately 7.5 feet thick where weathered shale was encountered at depths ranging from 7.5 to 11 feet bgs near the north perimeter, west parking lot (grid samples), and IRM demolition limit areas. Fill materials were found across the site. The thickness of the fill materials was often difficult to determine precisely because the loose sandy fill materials caved into the boreholes. Fill materials were typically dark brown or black, fine, silty sands. Typical fill at the site was characterized by the presence of black and orange (rust) staining; tan and red brick fragments; burnt black material; black stained wood, metal fragments, and thin lenses of black ash, etc. Noticeable odors, possibly chemical in nature, were observed in some of the stained intervals. Native materials underlying the fill typically consisted of gray, green, or brown clays and sands. (Boring logs are included in Appendix D.)

# 6

## Mapping

Soil samples were tied in to semi-permanent locations such as trees, power poles, corners of the building, monitoring wells, etc. to the extent practicable using a measuring tape and/or measuring wheel. If measurements could not be obtained, approximate locations were sketched on a field copy of a composite base map created from the IRM survey and other historical sources. The soil samples were then located on the base map using these measurements and sketches. Approximate coordinates of soil samples were then generated from the survey map after they were plotted. Coordinates were referenced to the New York State Plane West Zone, North American Datum (NAD) 83.

The resulting maps showing soil and water sample locations are Figures 1-1 through 1-3 in Appendix A.

# 7

## Summary of Analytical Results

Subsurface soil samples were analyzed for the full suite of analyses used for the soil characterization during the IRM. TCLP analyses using EPA Methods 6010/7470 were later performed on samples exhibiting the possibility of a leachate toxicity characteristic, based on the initial analyses. The samples analyzed included fill material and potentially contaminated soils observed during the IRM excavation.

Table 1 lists the figures that describe the sampling and analytical results. Figures are found in Appendix A.

**Table 1 Figures Describing Sampling and Analytical Results**

| Figure Name                         | Figure Number |
|-------------------------------------|---------------|
| Site Sample Locations               | 1-1,1-2,1-3   |
| Arsenic                             | 2             |
| Barium                              | 3             |
| Cadmium                             | 4             |
| Chromium                            | 5             |
| Copper                              | 6             |
| Lead                                | 7             |
| Nickel                              | 8             |
| Overall Metals Contamination        | 9             |
| Overall Semi-volatile Contamination | 10            |

Analytes for the soil samples and brick and mortar samples were reported in milligrams per kilogram (mg/kg). Analytes for the surface water samples were reported in micrograms per liter (µg/L). Soil, water, and brick/mortar analytical results for the investigation are summarized in Tables 2-1, 2-2, and 2-4, respectively, in Appendix B. Analytical results for soil and brick/mortar samples were compared with the NYSDEC Part 375 Restricted Commercial SCOs for commercial property (New York Code of Rules and Regulations Title 6, Subpart 375 2006), as directed by NYSDEC. Analytical results for the water samples were compared with NYSDEC Technical and Operational Guidance #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limita-

## 7. Summary of Analytical Results

tions (1998). Iso-concentration maps for soil samples for compounds of special interest were developed using Surfer (Golden Software, Inc.) based on interpolation of these analytical results (see Figures 2 through 10 in Appendix A) and include the primary metals of concern—lead, chromium, and barium. Appendix B includes results for water samples as well as soil samples (see Table 2-2 in Appendix B).

All laboratory deliverables were reviewed by EEEPC. The data were qualified following general guidelines in the EPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, EPA 540/R-99-008 (U.S. Environmental Protection Agency October 1999). DUSRs were prepared for each laboratory report (based on sample delivery group) as specified in NYSDEC's "Guidance for the Development of Quality Assurance Plans and Data Usability Summary Reports" (1999). The data review included an evaluation of the following:

- Holding times;
- Initial and continuing calibration;
- Reporting limits;
- Laboratory blanks;
- Laboratory control samples;
- Field duplicates;
- Sample result verification; and
- Method-specific QC samples (e.g., GC/MS tunes).

DUSRs were prepared for the laboratory reports by EEEPC's project chemist. All DUSRs were reviewed by EEEPC's Quality Assurance Director. DUSRs for the laboratory reports are provided in Appendix C. Deviations from acceptable QC specifications are discussed in the DUSRs. Qualifiers were added to the data, when appropriate, to indicate potential concerns with data usability.

### Soil Samples

During the site investigation, 81 soil boring locations were sampled (Figures 1-1 through 1-3). Nine VOCs and seven metals were detected above the NYSDEC Restricted Use SCOs for commercial properties in one or more of the 81 soil sample locations.

Nine SVOC analytes (polycyclic aromatic hydrocarbons [PAHs])—benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene,

## 7. Summary of Analytical Results

chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene and phenanthrene—had concentrations exceeding the NYSDEC Restricted Use SCOs for commercial properties. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, and phenanthrene had maximum concentrations of 420 mg/kg, 300 mg/kg, 480 mg/kg, 180 mg/kg, 350 mg/kg, 78 mg/kg, 840 mg/kg, 130 mg/kg, and 890 mg/kg, respectively, detected at ATSS-EPA-01-03 located in the former East Production Area (see Appendix B). PAHs generally adhere to solid particles and are common constituents of soils in urban and industrial areas. The primary source of PAHs is from the incomplete combustion of wood (wood-burning stoves and furnaces) and fuel (motor vehicles and other gas-burning engines). Other sources include smoke and soot (industrial, cigarette, charcoal grills, etc.), asphalt, oils, and greases.

Seven metals (arsenic, barium, cadmium, chromium, copper, lead, and nickel) had concentrations exceeding the NYSDEC Part 375 Restricted Use SCOs for commercial properties. Arsenic, barium, chromium, and nickel had maximum concentrations of 225 mg/kg, 3,920 mg/kg, 63,000 mg/kg and 31,500 mg/kg, respectively, detected at ATSS-NP-04-01 located in the north perimeter. Cadmium had a maximum concentration of 548 mg/kg detected at ATSS-NP-21-02 located in the north perimeter. Copper had a maximum concentration of 3,970 mg/kg detected at ATSS-NP-02-1.5 located in the north perimeter. Lead had a maximum concentration of 18,300 mg/kg detected at ATSS-GS-06-3.5 located in the west parking lot (see Table 2). As can be seen from Table 2, these maxima exceed the SCOs by at least a factor of 10.

**Table 2 Metals, SVOCs, and VOC, Analyte Maximum and Minimum Concentrations**

| Analyte       | Part 375 Restricted Commercial SCO | Maximum         | Minimum | Location of Max |
|---------------|------------------------------------|-----------------|---------|-----------------|
| <b>Metals</b> |                                    |                 |         |                 |
| Antimony      | NA                                 | 550.0           | 0.1     | ATSS-NP-04-01   |
| Arsenic       | 16.0                               | <b>225.0</b>    | 2.7     | ATSS-NP-04-01   |
| Barium        | 400.0                              | <b>3,920.0</b>  | 5.6     | ATSS-NP-04-01   |
| Beryllium     | 590.0                              | 2.5             | 0.0     | ATSS-NP-05-1.5  |
| Cadmium       | 9.3                                | <b>548.0</b>    | 0.1     | ATSS-NP-21-02   |
| Chromium      | 400.0                              | <b>63,000.0</b> | 10.9    | ATSS-NP-04-01   |
| Cobalt        | NA                                 | 614.0           | 2.4     | ATSS-GS-09-03   |
| Copper        | 270.0                              | <b>3,970.0</b>  | 10.2    | ATSS-NP-02-1.5  |
| Lead          | 1,000.0                            | <b>18,300.0</b> | 9.1     | ATSS-GS-06-3.5  |
| Nickel        | 310.0                              | <b>31,500.0</b> | 8.3     | ATSS-NP-04-01   |
| Selenium      | 1,500.0                            | 13.2            | 0.5     | ATSS-SP-06-02   |
| Silver        | 1,500.0                            | 11.4            | 0.7     | ATSS-SP-12-01   |
| Thallium      | NA                                 | 14.9            | 0.5     | ATSS-NP-04-01   |
| Vanadium      | NA                                 | 1,190.0         | 5.7     | ATSS-ID-07-3.5  |
| Zinc          | 10,000.0                           | 695.0           | 7.5     | ATSS-SP-13-04   |

## 7. Summary of Analytical Results

**Table 2 Metals, SVOCs, and VOC, Analyte Maximum and Minimum Concentrations**

| Analyte                               | Part 375 Restricted Commercial SCO | Maximum      | Minimum | Location of Max |
|---------------------------------------|------------------------------------|--------------|---------|-----------------|
| Mercury                               | 2.8                                | 0.3          | 0.0     | ATSS-NP-19-1.5  |
| Cyanide                               | 27.0                               | 21.8         | 0.1     | ATSS-EPA-06-7.5 |
| <b>Semivolatile Organic Compounds</b> |                                    |              |         |                 |
| 1,1'-Biphenyl                         | NA                                 | 5.3          | 0.0     | ATSS-EPA-01-03  |
| 2,4-Dinitrophenol                     | NA                                 | 23.0         | 0.4     | ATSS-EPA-01-03  |
| 2-Methylnaphthalene                   | NA                                 | 18.0         | 0.0     | ATSS-EPA-01-03  |
| 4,6-Dinitro-2-methylphenol            | NA                                 | 23.0         | 0.4     | ATSS-EPA-01-03  |
| Acenaphthene                          | 500.0                              | 62.0         | 0.0     | ATSS-EPA-01-03  |
| Acenaphthylene                        | 500.0                              | 3.9          | 0.0     | ATSS-EPA-05-09  |
| Anthracene                            | 500.0                              | 130.0        | 0.0     | ATSS-EPA-01-03  |
| Benzo(a)anthracene                    | 5.6                                | <b>420.0</b> | 0.0     | ATSS-EPA-01-03  |
| Benzo(g,h,i)perylene                  | 500.0                              | 150.0        | 0.1     | ATSS-EPA-01-03  |
| Benzo(a)pyrene                        | 1.0                                | <b>300.0</b> | 0.0     | ATSS-EPA-01-03  |
| Benzo(b)fluoranthene                  | 5.6                                | <b>480.0</b> | 0.1     | ATSS-EPA-01-03  |
| Benzo(k)fluoranthene                  | 56.0                               | <b>180.0</b> | 0.0     | ATSS-EPA-01-03  |
| Bis(2-ethylhexyl)phthalate            | NA                                 | 11.0         | 0.0     | ATSS-EPA-01-03  |
| Carbazole                             | NA                                 | 81.0         | 0.1     | ATSS-EPA-01-03  |
| Chrysene                              | 56.0                               | <b>350.0</b> | 0.0     | ATSS-EPA-01-03  |
| Dibenzo(a,h)anthracene                | 0.6                                | <b>78.0</b>  | 0.0     | ATSS-EPA-01-03  |
| Dibenzofuran                          | 350.0                              | 54.0         | 0.0     | ATSS-EPA-01-03  |
| Fluoranthene                          | 500.0                              | <b>840.0</b> | 0.1     | ATSS-EPA-01-03  |
| Fluorene                              | 500.0                              | 62.0         | 0.0     | ATSS-EPA-01-03  |
| Indeno(1,2,3-cd)pyrene                | 5.6                                | <b>130.0</b> | 0.0     | ATSS-EPA-01-03  |
| Naphthalene as SV                     | 500.0                              | 29.0         | 0.0     | ATSS-EPA-01-03  |
| Phenanthrene                          | 500.0                              | <b>890.0</b> | 0.0     | ATSS-EPA-01-03  |
| Pyrene                                | 500.0                              | 350.0        | 0.1     | ATSS-EPA-01-03  |
| <b>Volatile Organic Compounds</b>     |                                    |              |         |                 |
| 2-Butanone                            | 500                                | 0.06         | 0.01    | ATSS-EPA-02-05  |
| Acetone                               | 500                                | 0.06         | 0.01    | ATSS-EPA-02-05  |
| cis-1,2-Dichloroethene                | 500                                | 1.30         | 0.00    | ATSS-EPA-04-09  |
| Methylene chloride                    | 500                                | 0.06         | 0.00    | ATSS-EPA-04-09  |
| Naphthalene                           | 500                                | 0.01         | 0.00    | ATSS-EPA-02-05  |
| trans-1,2-Dichloroethene              | 500                                | 0.06         | 0.01    | ATSS-EPA-02-05  |
| Trichloroethene                       | 200                                | 4.00         | 0.00    | ATSS-EPA-03-02  |
| Vinyl chloride                        | 13                                 | 0.06         | 0.01    | ATSS-EPA-02-05  |

Note: results above SCOs are shown in boldface with shading.

### Toxicity Characteristic Leaching Procedure Analysis of Selected Samples

A total of 59 soil samples with analytical results that showed total contamination for a particular analyte at a high enough level such that leachability could be an



## 7. Summary of Analytical Results

issue were analyzed using the TCLP. Two metals (lead and cadmium) had concentrations exceeding the EPA Toxicity Characteristic Constituent Regulatory Levels for TCLP analyses. Lead had a maximum concentration of 480,000 µg/L at ATSS-GS-06, located in the west parking lot area (Table 3). Cadmium exceeded the EPA TCLP regulatory level only at ATSS-EPA-01, located in the East Production Area. Thirteen samples exceeded the EPA Toxicity Characteristic Constituent Regulatory levels for TCLP analyses, which exhibited the toxicity characteristic and are hazardous (see Table 2-3 in Appendix B).

Although total chromium levels were elevated in many samples, TCLP analyses for these samples did not show exceedances of Toxicity Characteristic Constituent Regulatory Levels for chromium.

**Table 3 TCLP Analyte Maximum and Minimum Concentrations**

| Analyte  | EPA Toxicity (µg/L) | Max            | Min | Location of Max |
|----------|---------------------|----------------|-----|-----------------|
| Arsenic  | 5,000               | 47             | 2   | ATSS-GS-01-05   |
| Barium   | 100,000             | 49,600         | 86  | ATSS-ID-10-4.5  |
| Cadmium  | 1,000               | <b>1,390</b>   | 0   | ATSS-EPA-01-03  |
| Chromium | 5,000               | 671            | 4   | ATSS-WPR-01-01  |
| Lead     | 5,000               | <b>480,000</b> | 4   | ATSS-GS-06-3.5  |
| Selenium | 1,000               | 117            | 30  | ATSS-GS-09-03   |
| Silver   | 5,000               | 74             | 2   | ATSS-ID-04-03   |
| Mercury  | 200                 | 0              | 0   | ATSS-NP-02-1.5  |

Note: results exhibiting EPA Toxicity are shown in boldface with shading.

### Water Samples

Five grab surface water samples were collected on-site (Figure 1) from pits and vaults. Three VOCs, eight SVOCs, and seven metals were detected above NYSDEC Ambient Water Quality Standards in one or more of the five surface water sample locations.

Eleven SVOC and VOC analytes (acetone, cis-1,2-dichloroethene, trichloroethene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene and phenol) had concentrations exceeding the NYSDEC Ambient Water Quality Standards. Cis-1,2-dichloroethene and trichloroethene had maximum concentrations of 7.3 µg/L and 6.1 µg/L, respectively, detected at ATSS-WS-02, located in an outside vault south of the former east pickling room. Maximum concentrations of acetone, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene were detected at ATSS-WS-03, located in the former east production area pit. Acetone (a common laboratory solvent) was detected in only one sample at a concentration of 83 µg/L. Although a review of laboratory QA data did not reveal an acetone issue, it is conceivable that the acetone is a laboratory artifact. Benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene had maximum estimated concentrations of 2.6 µg/L and 2.4 µg/L respectively, which are below the practical quantitation limit of 5 µg/L.

## 7. Summary of Analytical Results

Benzo(a)anthracene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and phenol had maximum concentrations of 1.6 µg/L (below the practical quantitation limit of 5 µg/L), 12 µg/L, 21 µg/L, 52 µg/L, 75 µg/L and 4.6 µg/L (below the practical quantitation limit of 5 µg/L), respectively, detected at ATSS-WS-05, located in the former west production area pit (Table 4).

Seven metals (arsenic, chromium, copper, lead, nickel, selenium and thallium) had concentrations exceeding the NYSDEC Ambient Water Quality Standards. Arsenic had a maximum concentration of 144 µg/L, detected at ATSS-WS-03 located in the former East Production Area pit. Chromium, copper, lead, nickel, selenium, and thallium had maximum concentrations of 9,040 µg/L, 542 µg/L, 350 µg/L, 2,330 µg/L, 16.5 µg/L and 20 µg/L, respectively, detected at ATSS-WS-05, located in the former West Production Area pit (Table 4).

**Table 4 Water Sample Analyte Maximum and Minimum Concentrations**

| Analyte                    | Regulatory Limit<br>(µg/L) | Max        | Min         | Location of Max |
|----------------------------|----------------------------|------------|-------------|-----------------|
| Acetone                    | 50                         | <b>83</b>  | 5           | ATSS-WS-03      |
| cis-1,2-Dichloroethene     | 5                          | <b>7.3</b> | 0.5         | ATSS-WS-02      |
| trans-1,2-Dichloroethene   | 5                          | 0.5        | 0.29        | ATSS-WS-01      |
| Trichloroethene            | 5                          | <b>6.1</b> | 0.5         | ATSS-WS-02      |
| Acenaphthene               | 20                         | 5          | 0.5         | ATSS-WS-01      |
| Acenaphthylene             | NA                         | 5          | 0.79        | ATSS-WS-01      |
| Acetophenone               | NA                         | 16         | 5           | ATSS-WS-05      |
| Anthracene                 | 50                         | 5.3        | 1.4         | ATSS-WS-05      |
| Benzaldehyde               | NA                         | 38         | 5           | ATSS-WS-05      |
| Benzo(a)anthracene         | 0.002                      | <b>5</b>   | <b>1.4</b>  | ATSS-WS-01      |
| Benzo(a)pyrene             | NA                         | 5          | 2.2         | ATSS-WS-01      |
| Benzo(b)fluoranthene       | 0.002                      | <b>12</b>  | <b>0.56</b> | ATSS-WS-05      |
| Benzo(g,h,i)perylene       | NA                         | 5          | 2.4         | ATSS-WS-01      |
| Benzo(k)fluoranthene       | 0.002                      | <b>5</b>   | <b>2</b>    | ATSS-WS-01      |
| Bis(2-ethylhexyl)phthalate | 5                          | 5          | 0.59        | ATSS-WS-02      |
| Carbazole                  | NA                         | 5          | 1.1         | ATSS-WS-01      |
| Chrysene                   | 0.002                      | <b>21</b>  | <b>3</b>    | ATSS-WS-05      |
| Dibenzo(a,h)anthracene     | NA                         | 5          | 0.56        | ATSS-WS-01      |
| Dibenzofuran               | NA                         | 5.8        | 5           | ATSS-WS-05      |
| Di-n-butylphthalate        | 50                         | 5          | 3.6         | ATSS-WS-01      |
| Fluoranthene               | 50                         | <b>52</b>  | 0.71        | ATSS-WS-05      |
| Indeno(1,2,3-cd)pyrene     | 0.002                      | <b>5</b>   | <b>0.71</b> | ATSS-WS-01      |
| Naphthalene                | 10                         | 5          | 3.4         | ATSS-WS-01      |
| Phenanthrene               | 50                         | <b>75</b>  | 5           | ATSS-WS-05      |
| Phenol                     | 1                          | <b>5</b>   | <b>4.6</b>  | ATSS-WS-01      |
| Pyrene                     | 50                         | 8.3        | 2           | ATSS-WS-05      |
| Arsenic                    | 25                         | <b>144</b> | 2.3         | ATSS-WS-03      |
| Barium                     | 1000                       | 717        | 17.2        | ATSS-WS-05      |

## 7. Summary of Analytical Results

**Table 4 Water Sample Analyte Maximum and Minimum Concentrations**

| Analyte  | Regulatory Limit<br>(µg/L) | Max         | Min        | Location of Max |
|----------|----------------------------|-------------|------------|-----------------|
| Cadmium  | 5                          | 5           | 2.9        | ATSS-WS-01      |
| Chromium | 50                         | <b>9040</b> | 5          | ATSS-WS-05      |
| Cobalt   | NA                         | 50          | 6.4        | ATSS-WS-01      |
| Copper   | 200                        | <b>542</b>  | 9          | ATSS-WS-05      |
| Lead     | 25                         | <b>350</b>  | 10         | ATSS-WS-05      |
| Nickel   | 100                        | <b>2330</b> | 21.1       | ATSS-WS-05      |
| Selenium | 10                         | <b>16.5</b> | 5          | ATSS-WS-05      |
| Thallium | 0.5                        | <b>20</b>   | <b>3.3</b> | ATSS-WS-01      |
| Vanadium | NA                         | 119         | 1          | ATSS-WS-05      |
| Zinc     | 2000                       | 578         | 50         | ATSS-WS-05      |

Note: Results above the regulatory limit (NYSDEC Technical and Operational Guidance #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998) are shown in boldface with shading. These results reflect the higher of the practical quantitation limit or the reported value.

### Brick/Mortar Samples

During the site investigation, two brick/mortar samples were collected on-site from the north wall of the former East Pickling Room and the south wall of the former East Production Area (Figure 1-3). Two metals were detected above NYSDEC Restricted Use SCOs for commercial properties in sample BM-NW-EPR. Although the brick/mortar samples are not soil, the SCOs were used as a way of comparing the results with other soil samples collected at the site that used the same objectives. There is no cleanup objective for brick/mortar samples.

Two metals (chromium and nickel) had concentrations exceeding the SCOs. Chromium had a maximum concentration of 832 mg/kg and nickel had a maximum concentration of 486 mg/kg detected at BM-NW-EPR, located in the former East production Room, north wall (Table 2-4, Appendix B).

# 8

## Observations and Conclusions

Appendix A maps show the results of the analyses that were performed for those samples that were collected in the 0 to 5 feet bgs interval (the vast majority of samples collected) to facilitate visualization of the results. The contaminant contours were generated using “Surfer” software (Golden Software, Inc.).

In addition to presenting and mapping the analytical results for individual analytes (Figures 2 through 8 in Appendix A), EEEPC developed a technique to help visualize the overall extent of soil metals contamination at this site whereby all metals analytical results were normalized based on the percentage of the relevant SCO. For example, given an SCO of 5,000 mg/kg for lead, if a lead analytical result was 4,000 mg/kg, then the normalized value was computed as  $4,000 / 5,000 = 80\%$ . In this way, the maximum normalized value for metals contamination was determined for each of the sample points. These results were then mapped to show the locations where metals contamination exceeds SCOs (Figure 9 in Appendix A).

The following is a summary of general observations and conclusions that may be derived from this supplemental site investigation and the mapping of these results as shown in Appendix A:

- Multiple on-site areas show analytical results exceeding the SCOs in the former production areas and, in fact, most of the site appears likely to have contamination above NYSDEC Part 375 Restricted Commercial SCOs.
- Soil sample NP-19-1.5 showed a range of metals, including chromium, barium, and lead, above the Part 375 Restricted Commercial SCOs.
- Chromium, lead, copper, and nickel contamination above the Part 375 Restricted Commercial SCOs was found to the west of the IRM excavation limits as deep as 7 feet bgs, adjacent to the remainder of the West Pickling Area as well as to the south of the East Pickling Area.
- Barium contamination above the Part 375 Restricted Commercial SCOs was found adjacent to the IRM excavation limits and at NP-19-1.5 but does not extend into the former parking area to the west of the IRM demolition limits.

## 8. Observations and Conclusions

- Boring logs recorded during the sampling program show that the west parking lot area of the site (west of the IRM demolition limits) appears to contain areas with several feet of fill, including bricks. It is likely that the source material for this fill was contaminated because much of this area shows exceedances of the Part 375 Restricted Commercial SCOs for metals such as lead, copper, chromium, and arsenic (among others).
- A single sample location (ATSS-NP-21) taken from an area adjacent to a former process pit at the east end of the remaining building showed high levels of cadmium. Cadmium concentrations in all other samples within the building footprint were below the Restricted Commercial SCOs for cadmium (9.3 mg/kg). Thus, the extent of the cadmium contamination (estimated in Figure 4) may possibly overstate the areal extent of this contamination. Similarly, soil samples collected adjacent to sample ATSS\_NP-19-1.5 are below cleanup objectives for various contaminants and the extent of soil contamination may be overstated in the figures. Additional sampling would be required to better define these impacted areas.
- The former West Production Area (within the remaining building) appears to be relatively free of contamination. Soil samples collected in this area did not show concentrations exceeding the NYSDEC Restricted Commercial Use SCOs.
- The soil samples exceeding the SCOs are mainly contaminated with metals (arsenic, barium, cadmium, chromium, copper, lead, and nickel). The areas with the highest metal concentrations that exceeded the SCOs for commercial properties included the western section of the north perimeter (ATSS-NP-04, ATSS-NP-21, and ATSS-NP-02) and the western section of the IRM demolition area (ATSS-ID-03).
- Sample locations ATSS-EPA-01 and ATSS-EPA-05 showed SVOC results exceeding the NYSDEC Restricted Commercial Use SCOs.
- Three surface water samples (ATSS-WS-02, ATSS-WS-03, and ATSS-WS-05) collected from the site were contaminated with concentrations of metals, SVOCs, and VOCs exceeding NYSDEC Ambient Water Quality Standards. These samples were collected in the former West Pickling Room pit, former East Production Area pit and the outside vault south of the former East Pickling Room.
- Laboratory analytical results indicates that contamination exists from 0 to 5 feet bgs at the site. The fill located beneath the slab may be acting as a pathway for contaminant migration.

# 9

## Recommendations

Additional remedial work and/or investigation is warranted based on the laboratory analytical results. Suggestions for additional work include:

- Perform additional soil sampling, especially in the vicinity of ATSS-NP-21 and ATSS-NP-19, to define the nature and extent of on-site contamination, including the vertical and lateral extent of the soil and groundwater contamination.
- Consider removing additional soils exceeding soil cleanup objectives, at least for shallow soils, especially in the west parking lot area and in areas adjacent to the IRM excavation limits.

# 10

## References

Ecology and Environment Engineering, P.C. March 2007. *Work Plan for Sampling and Analysis to Complete Final Engineering Report for AL Tech Specialty Steel Site, Dunkirk, Chautauqua County, New York, Amendment 2 to Existing Work Plan for this Site.*

Title 6, New York Code of Rules and Regulations, Subpart 375-6, “Remedial Program Soil Cleanup Objectives.” 2006.

New York State Department of Environmental Conservation. 1998. *Technical and Operational Guidance #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

\_\_\_\_\_. 1999. *Guidance for the Development of Quality Assurance Plans and Data Usability Summary Reports.*

U.S. Environmental Protection Agency. 1980. *Identification and Listing of Hazardous Wastes, 40 CFR Part 261, Subpart C, Characteristics of Hazardous Waste.*

\_\_\_\_\_. 1999. *Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99-008.*

United States Environmental Protection Agency, 1980, *Identification and Listing of Hazardous Wastes, 40 CFR Part 261, Subpart C, Characteristics of Hazardous Waste.*

# A

## Figures



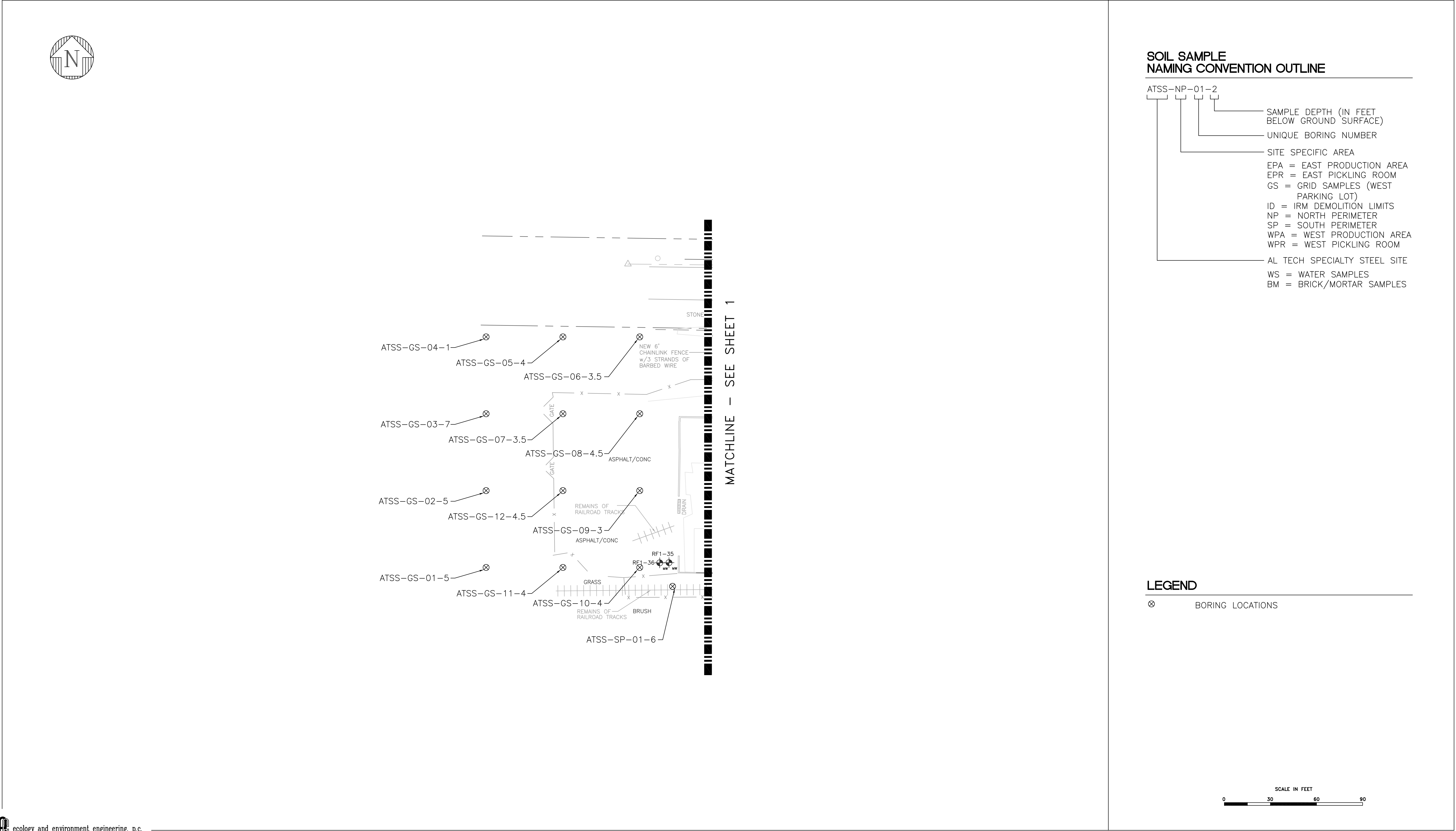


FIGURE # A-1A FORMER AL TECH SPECIALTY STEEL SITE BORING LOCATIONS





ATSS-NP-01-2

- SAMPLE DEPTH (IN FEET BELOW GROUND SURFACE)
- UNIQUE BORING NUMBER
- SITE SPECIFIC AREA

EPA = EAST PRODUCTION AREA  
EPR = EAST PICKLING ROOM  
GS = GRID SAMPLES (WEST PARKING LOT)  
ID = IRM DEMOLITION LIMITS  
NP = NORTH PERIMETER  
SP = SOUTH PERIMETER  
WPA = WEST PRODUCTION AREA  
WPR = WEST PICKLING ROOM

AL TECH SPECIALTY STEEL SITE

WS = WATER SAMPLES  
BM = BRICK/MORTAR SAMPLES

## LEGEND

⊗ BORING LOCATIONS  
○ WATER SAMPLE LOCATIONS



FIGURE # A-1B FORMER AL TECH SPECIALTY STEEL SITE  
BORING LOCATIONS



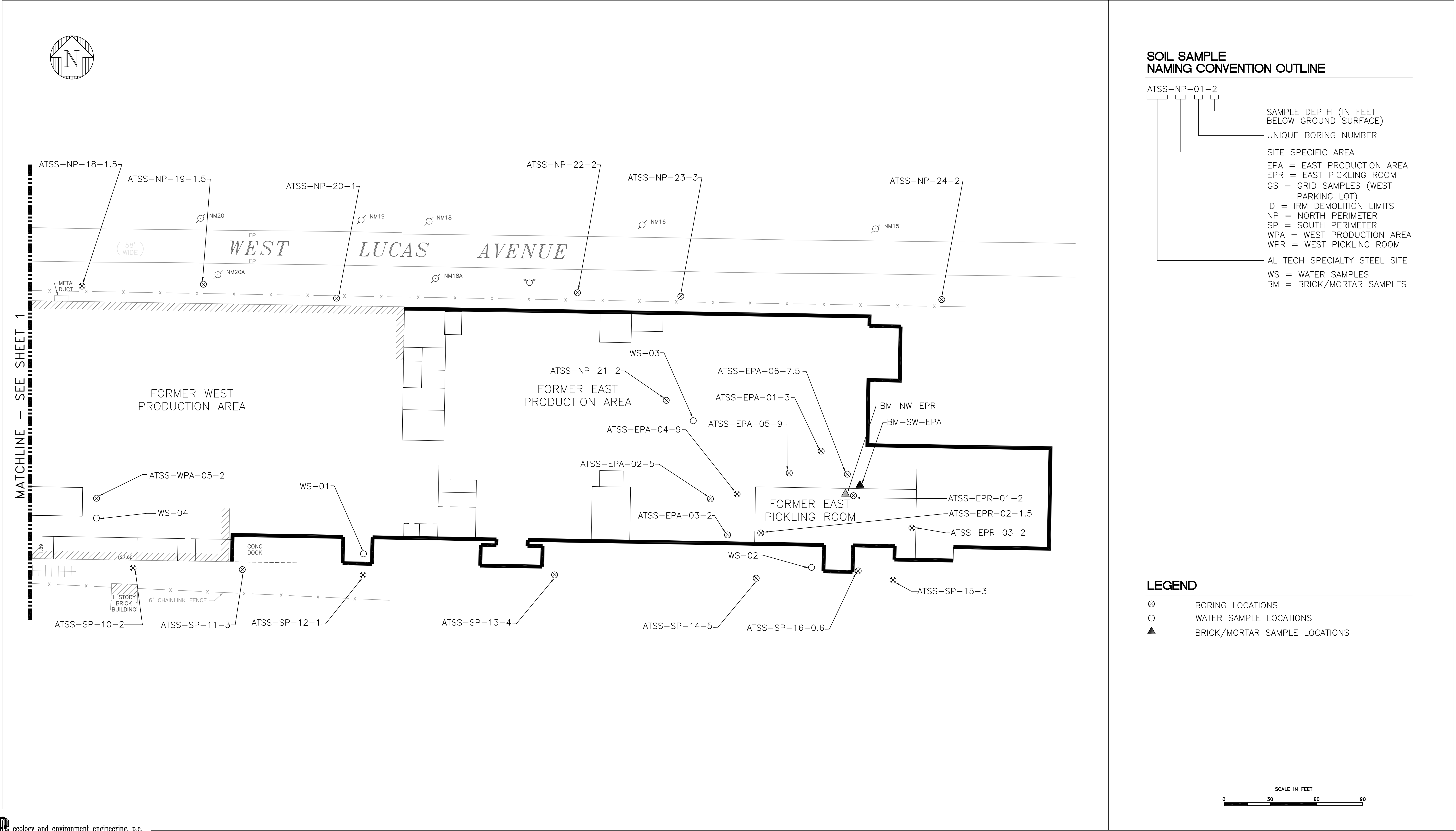


FIGURE # A-1C FORMER AL TECH SPECIALTY STEEL SITE BORING LOCATIONS

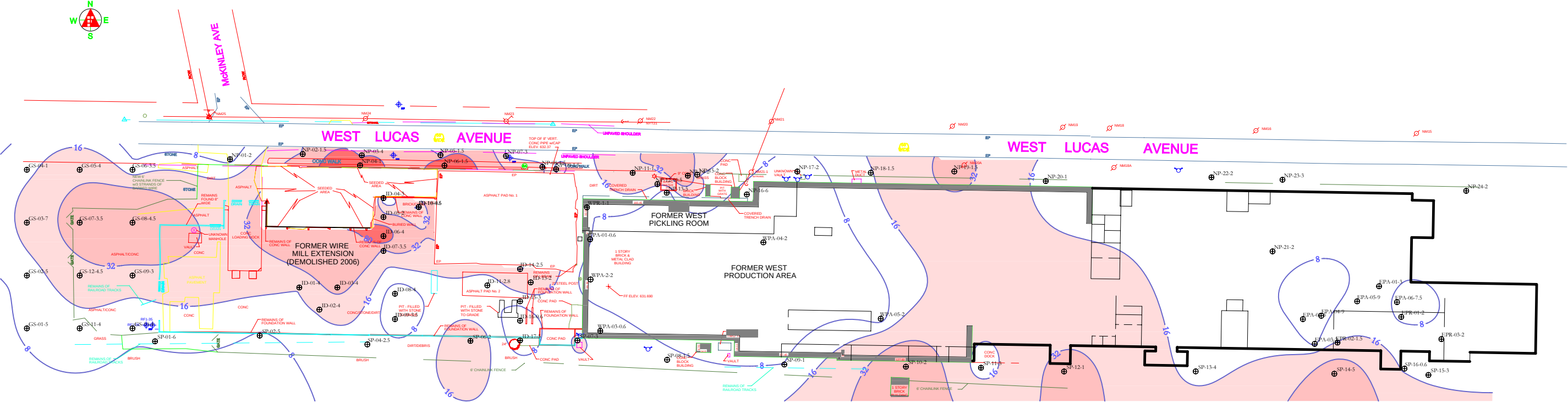


**Figure A-2**  
**Total Arsenic Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**

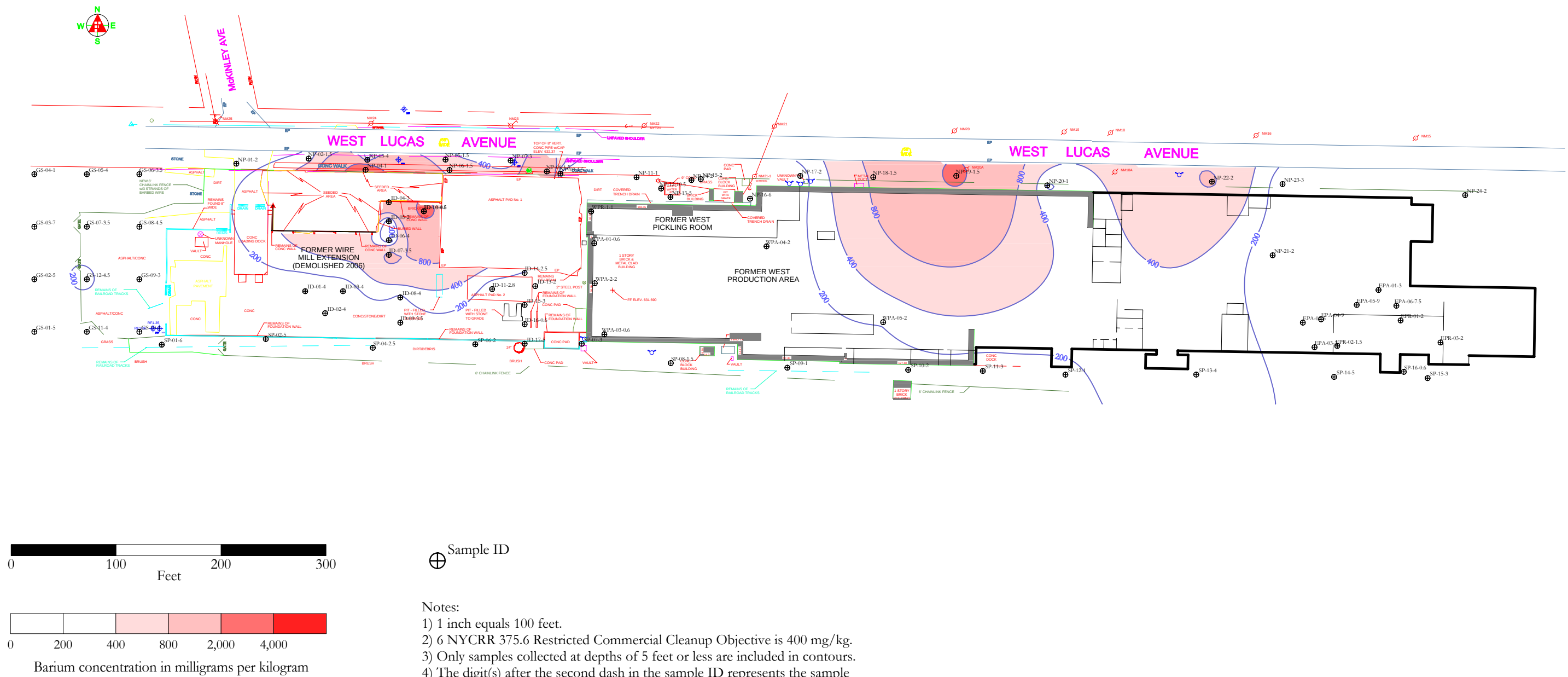
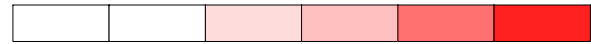
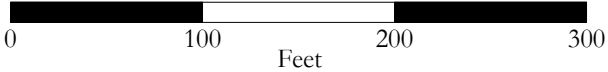
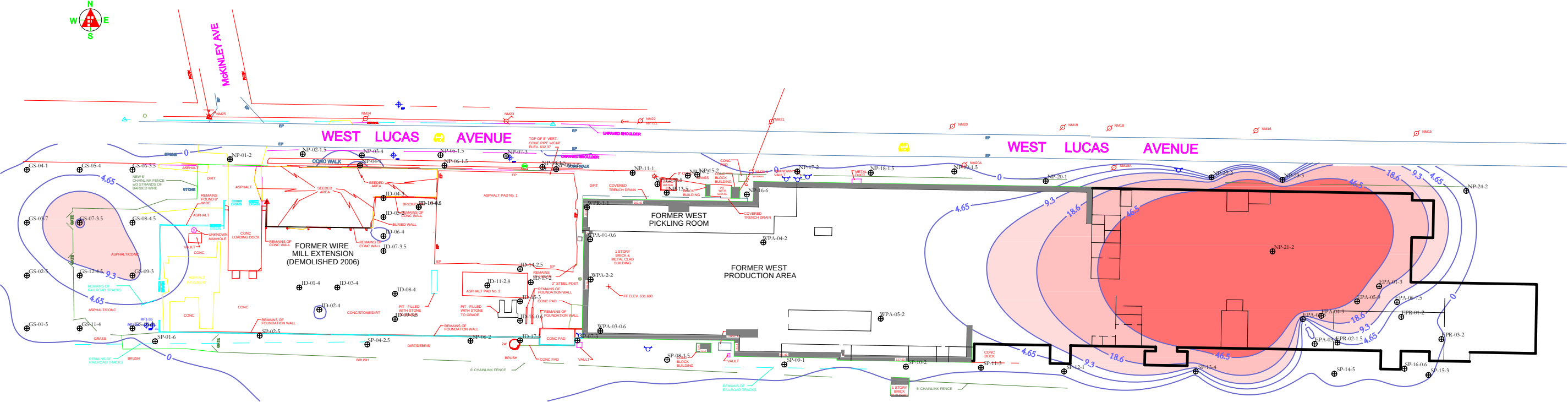


**Figure A-3**  
**Total Barium Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



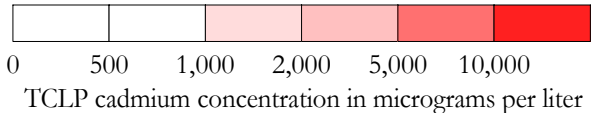
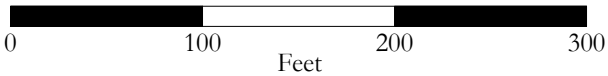
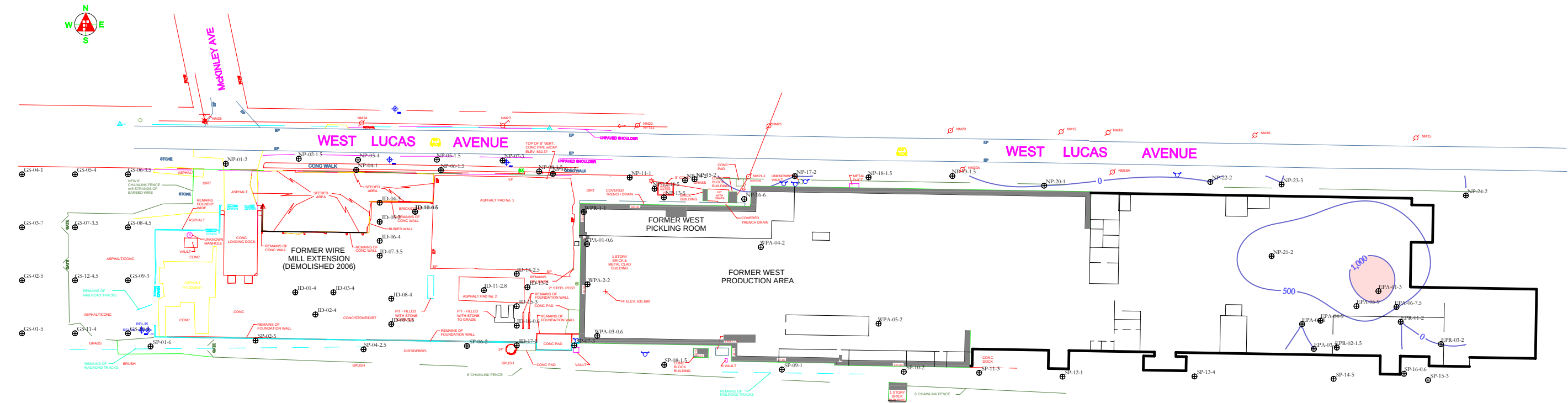


Cadmium concentration in milligrams per kilogram

⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) 6 NYCRR 375.6 Restricted Commercial Cleanup Objective is 9.3 mg/kg.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

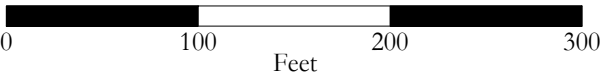
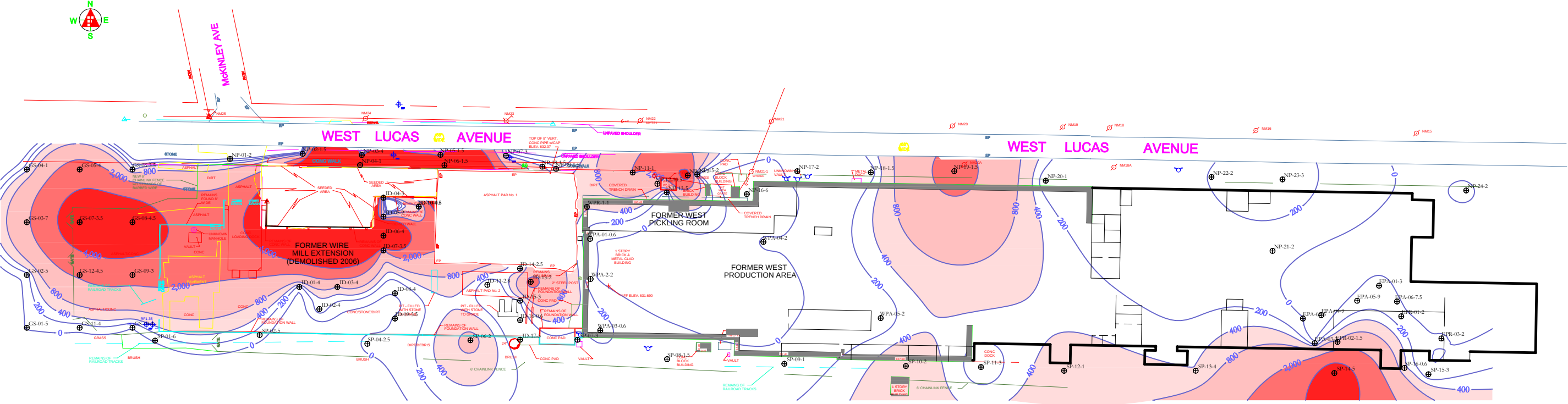
**Figure A-4**  
**Total Cadmium Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) 6 NYCRR 371.3 Regulatory Level is 1,000 µg/L.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

**Figure A-4B**  
**TCLP Cadmium Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



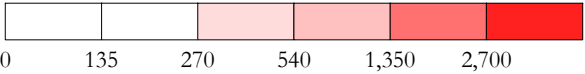
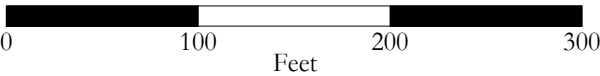
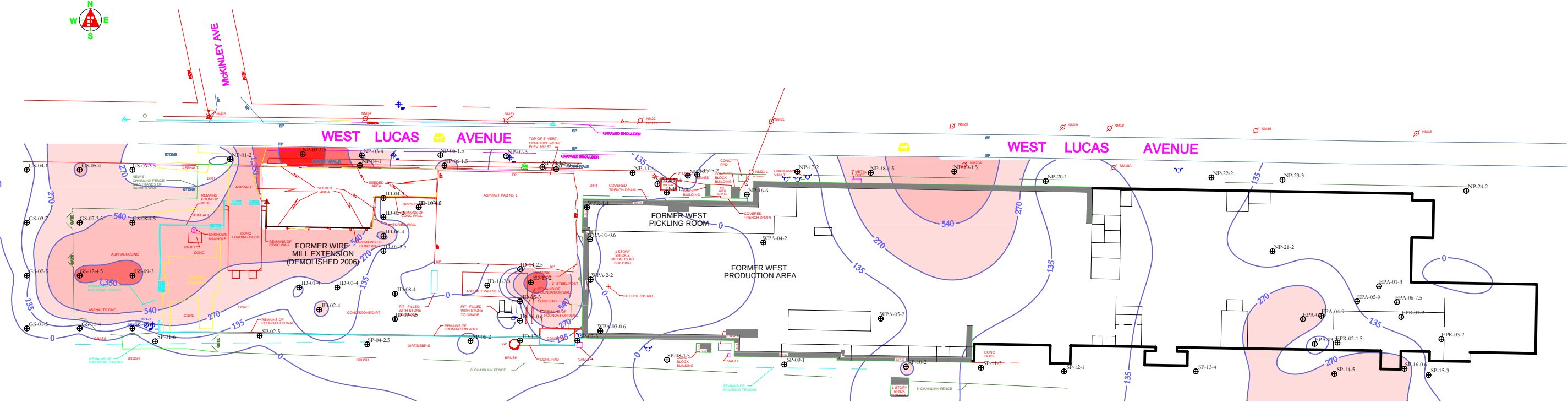
Chromium concentration in milligrams per kilogram

⊕ Sample ID

- Notes:
- 1 inch equals 100 feet.
  - 6 NYCRR 375.6 Restricted Commercial Cleanup Objective is 400 mg/kg.
  - Only samples collected at depths of 5 feet or less are included in contours.
  - The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

**Figure A-5**  
**Total Chromium Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



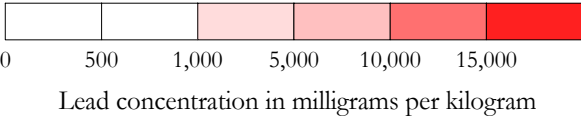
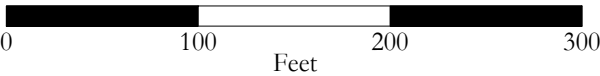
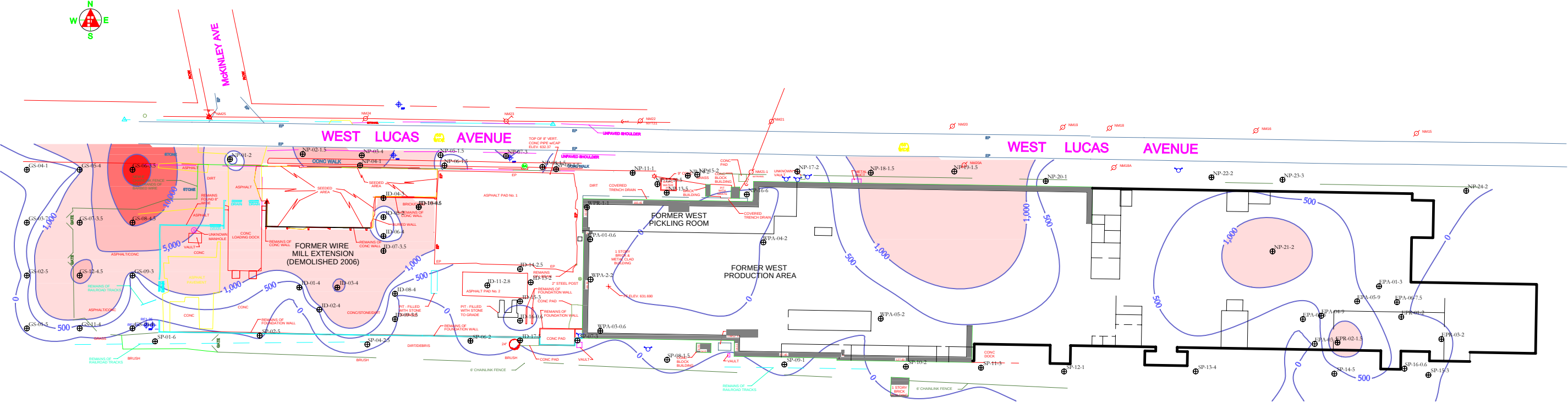


Copper concentration in milligrams per kilogram

⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) 6 NYCRR 375.6 Restricted Commercial Cleanup Objective is 270 mg/kg.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

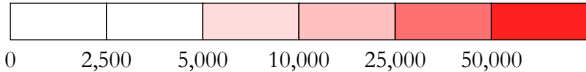
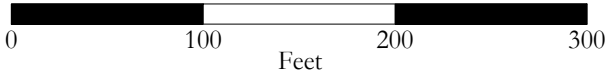
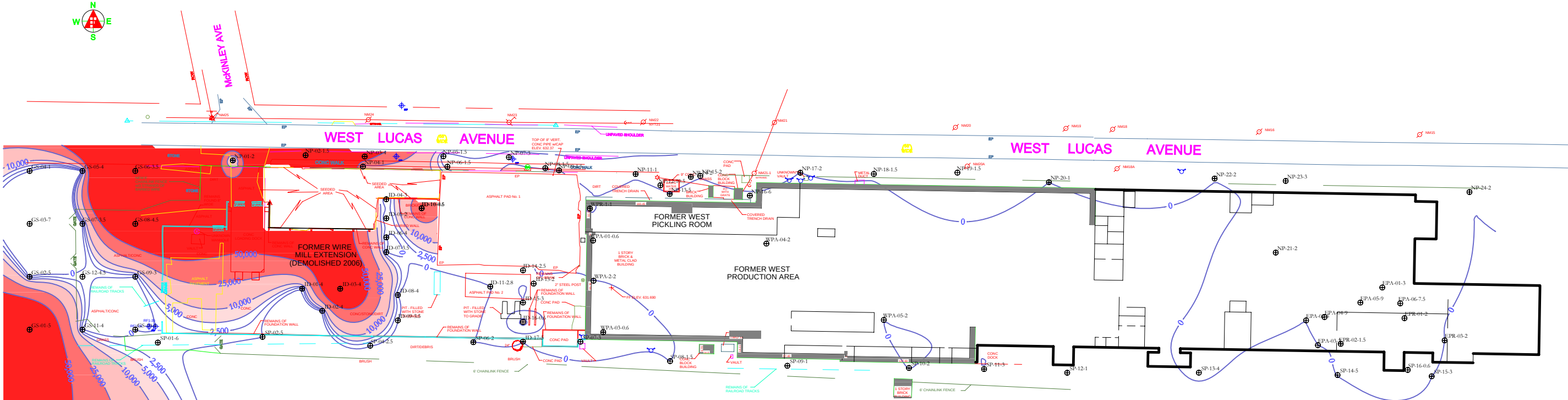
**Figure A-6**  
**Total Copper Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) 6 NYCRR 375.6 Restricted Commercial Cleanup Objective is 1,000 mg/kg.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

**Figure A-7**  
**Total Lead Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



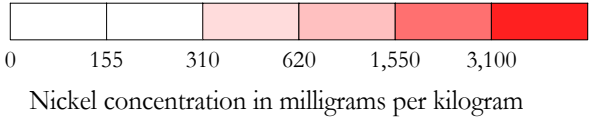
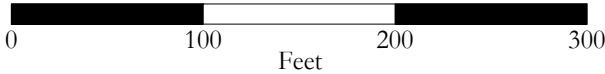
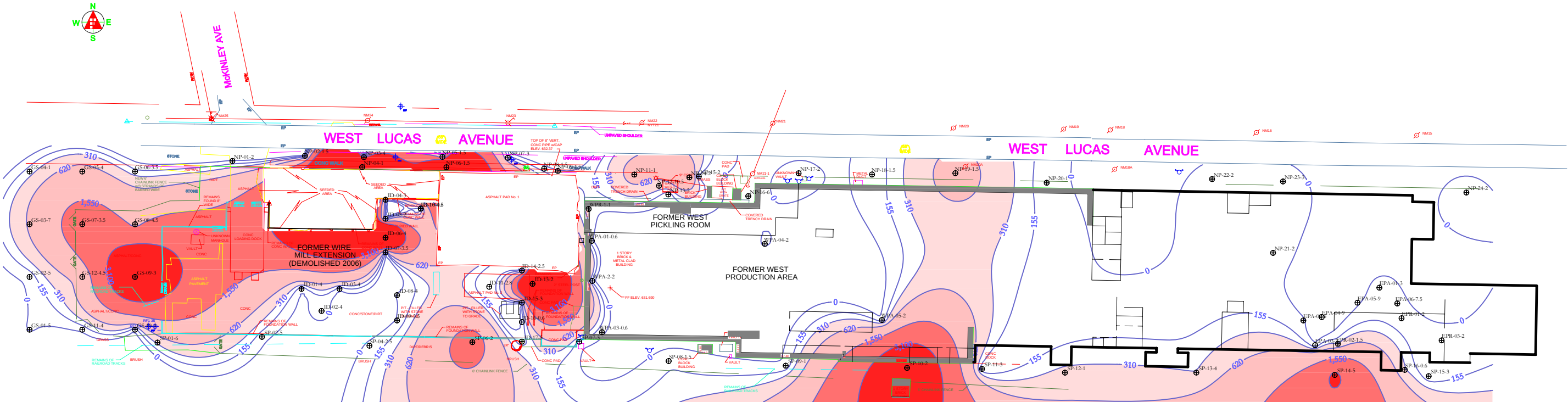
TCLP lead concentration in micrograms per liter

⊕ Sample ID

Notes:

- 1) 1 inch equals 100 feet.
- 2) 6 NYCRR 371.3 Regulatory Level is 5,000 µg/L.
- 3) Only samples collected at depths of 5 feet or less are included in contours.
- 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
- 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

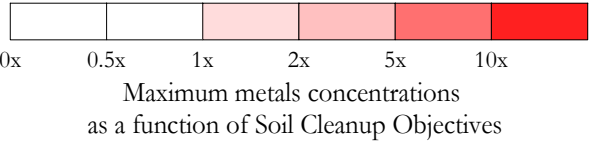
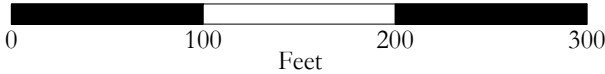
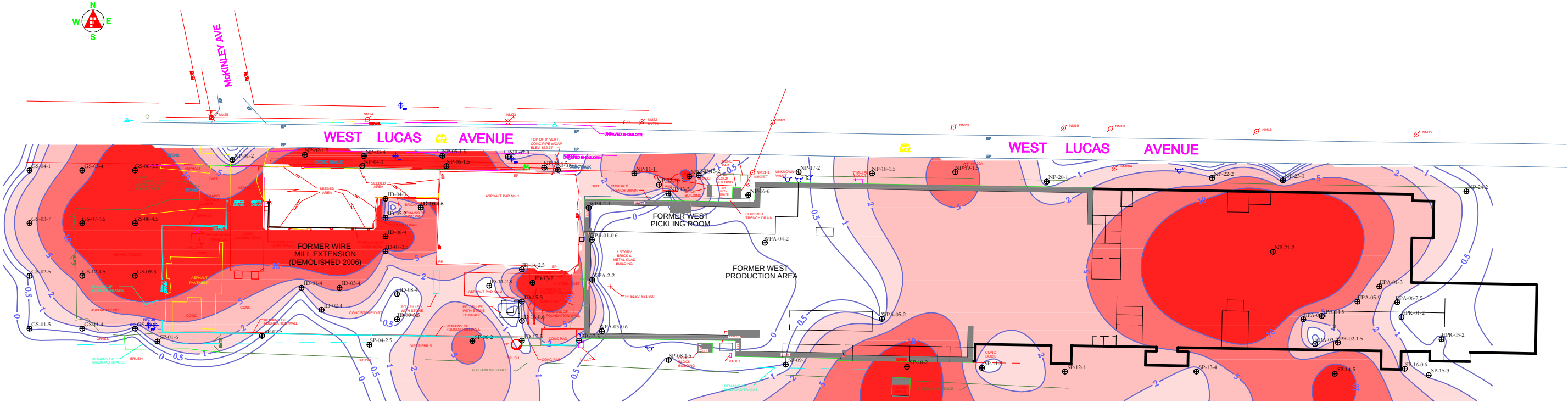
**Figure A-7B**  
**TCLP Lead Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) 6 NYCRR 375.6 Restricted Commercial Cleanup Objective is 310 mg/kg.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

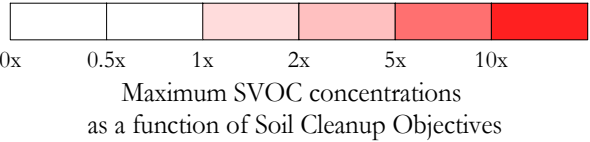
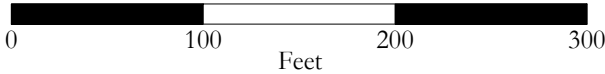
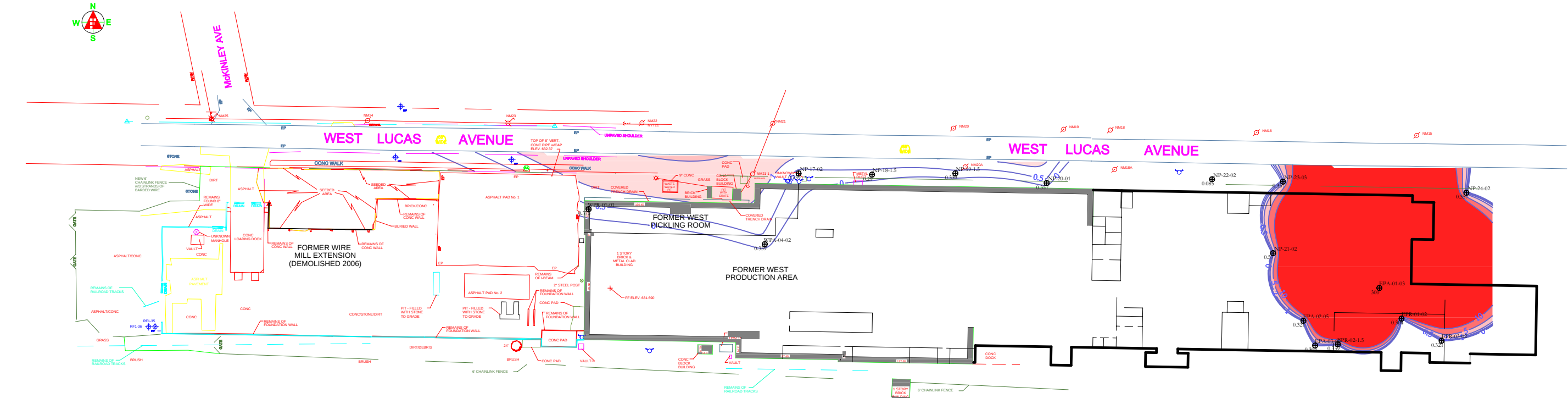
**Figure A-8**  
**Total Nickel Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) Contours represent the maximum multipliers of 6 NYCRR 375.6 Restricted Commercial Cleanup Objectives for any of 16 metals tested.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

**Figure A-9**  
**Metals Concentrations in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



⊕ Sample ID

- Notes:
- 1) 1 inch equals 100 feet.
  - 2) Contours represent the maximum multipliers of 6 NYCRR 375.6 Restricted Commercial Cleanup Objectives for any SVOC tested.
  - 3) Only samples collected at depths of 5 feet or less are included in contours.
  - 4) The digit(s) after the second dash in the sample ID represents the sample collection depth.
  - 5) Contours are mathematical representations (Kriging) of irregularly spaced data points and, therefore, may not accurately represent actual field conditions.

**Figure A-10**  
**Semivolatile Organic Compound Concentrations**  
**in Subsurface Soil Samples**  
**Al-Tech Steel Site**  
**Dunkirk, New York**  
**July 2007**



# B

## Tables

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                                   | Screening Criteria <sup>(1)</sup> | Sample ID: Date: | Units | ATSS-EPA-01-03 07/10/07 | ATSS-EPA-02-05 07/10/07 | ATSS-EPA-03-02 07/10/07 |
|-------------------------------------------|-----------------------------------|------------------|-------|-------------------------|-------------------------|-------------------------|
| <b>Method 8260B Volatiles (mg/kg)</b>     |                                   |                  |       |                         |                         |                         |
| 2-Butanone                                | 500b                              |                  | mg/kg | 0.0056 U                | 0.056 U                 | 0.053 U                 |
| Acetone                                   | 500b                              |                  | mg/kg | 0.0056 U                | 0.056 U                 | 0.053 U                 |
| cis-1,2-Dichloroethene                    | 500b                              |                  | mg/kg | 0.0056 U                | 0.24                    | 0.064                   |
| Methylene chloride                        | 500b                              |                  | mg/kg | 0.0011 J                | 0.029 J                 | 0.053 U                 |
| Naphthalene                               | 500b                              |                  | mg/kg | 0.0028                  | 0.011 U                 | 0.011 U                 |
| trans-1,2-Dichloroethene                  | 500b                              |                  | mg/kg | 0.0056 U                | 0.056 U                 | 0.053 U                 |
| Trichloroethene                           | 200                               |                  | mg/kg | 0.0091                  | 1.3                     | 4.0                     |
| Vinyl chloride                            | 13                                |                  | mg/kg | 0.0056 U                | 0.056 U                 | 0.053 U                 |
| <b>Method 8270C Semivolatiles (mg/kg)</b> |                                   |                  |       |                         |                         |                         |
| 1,1'-Biphenyl                             | NA                                |                  | mg/kg | 5.3 J                   | 0.18 U                  | 0.17 U                  |
| 2,4-Dinitrophenol                         | NA                                |                  | mg/kg | 23 U                    | 0.37 U                  | 0.35 U                  |
| 2-Methylnaphthalene                       | NA                                |                  | mg/kg | 18                      | 0.18 U                  | 0.17 U                  |
| 4,6-Dinitro-2-methylphenol                | NA                                |                  | mg/kg | 23 U                    | 0.37 U                  | 0.35 U                  |
| Acenaphthene                              | 500b                              |                  | mg/kg | 62                      | 0.18 U                  | 0.17 U                  |
| Acenaphthylene                            | 500b                              |                  | mg/kg | 1.3 J                   | 0.18 U                  | 0.17 U                  |
| Anthracene                                | 500b                              |                  | mg/kg | 130                     | 0.18 U                  | 0.17 U                  |
| Benzo(a)anthracene                        | 5.6                               |                  | mg/kg | 420                     | 0.18 U                  | 0.17 U                  |
| Benzo(g,h,i)perylene                      | 500b                              |                  | mg/kg | 150                     | 0.18 U                  | 0.17 U                  |
| Benzo(a)pyrene                            | 1f                                |                  | mg/kg | 300                     | 0.18 U                  | 0.17 U                  |
| Benzo(b)fluoranthene                      | 5.6                               |                  | mg/kg | 480                     | 0.18 U                  | 0.17 U                  |
| Benzo(k)fluoranthene                      | 56                                |                  | mg/kg | 180                     | 0.18 U                  | 0.17 U                  |
| Bis(2-ethylhexyl)phthalate                | NA                                |                  | mg/kg | 11 U                    | 0.059 J                 | 0.054 J                 |
| Carbazole                                 | NA                                |                  | mg/kg | 81                      | 0.18 U                  | 0.17 U                  |
| Chrysene                                  | 56                                |                  | mg/kg | 350                     | 0.18 U                  | 0.17 U                  |
| Dibenzo(a,h)anthracene                    | 0.56                              |                  | mg/kg | 78                      | 0.18 U                  | 0.17 U                  |
| Dibenzofuran                              | 350                               |                  | mg/kg | 54                      | 0.18 U                  | 0.17 U                  |
| Fluoranthene                              | 500b                              |                  | mg/kg | 840                     | 0.18 U                  | 0.17 U                  |
| Fluorene                                  | 500b                              |                  | mg/kg | 62 J                    | 0.18 U                  | 0.17 U                  |
| Indeno(1,2,3-cd)pyrene                    | 5.6                               |                  | mg/kg | 130                     | 0.18 U                  | 0.17 U                  |
| Naphthalene                               | 500b                              |                  | mg/kg | 29 J                    | 0.18 U                  | 0.17 U                  |
| Phenanthrene                              | 500b                              |                  | mg/kg | 890 J                   | 0.18 U                  | 0.17 U                  |
| Pyrene                                    | 500b                              |                  | mg/kg | 350 J                   | 0.18 U                  | 0.17 U                  |



**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: | Units | ATSS-EPA-01-03<br>07/10/07 | ATSS-EPA-02-05<br>07/10/07 | ATSS-EPA-03-02<br>07/10/07 |
|-------------------------------------|--------------------------------------|---------------------|-------|----------------------------|----------------------------|----------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                     |       |                            |                            |                            |
| Antimony                            | NA                                   |                     | mg/Kg | 0.97 U                     | 0.89 U                     | 0.88 U                     |
| Arsenic                             | 16f                                  |                     | mg/Kg | 8.9                        | 7.3                        | 6.5                        |
| Barium                              | 400                                  |                     | mg/Kg | 78.5 J                     | 60.9 J                     | 85.0 J                     |
| Beryllium                           | 590                                  |                     | mg/Kg | 0.49                       | 0.38                       | 0.38                       |
| Cadmium                             | 9.3                                  |                     | mg/Kg | <b>22.2 J</b>              | 0.91 J                     | 0.76 J                     |
| Chromium                            | 400h                                 |                     | mg/Kg | 50.7                       | 12.4                       | 18.5                       |
| Cobalt                              | NA                                   |                     | mg/Kg | 9.8 J                      | 7.6 J                      | 8.4 J                      |
| Copper                              | 270                                  |                     | mg/Kg | 29.2                       | <b>505</b>                 | 25.6                       |
| Lead                                | 1000                                 |                     | mg/Kg | 217 J                      | 20.7 J                     | 30.4 J                     |
| Nickel                              | 310                                  |                     | mg/Kg | 36.1 J                     | 20.8 J                     | 27.8 J                     |
| Selenium                            | 1500                                 |                     | mg/Kg | 2.4                        | 2.5                        | 2.4                        |
| Silver                              | 1500                                 |                     | mg/Kg | 1.5 U                      | 1.3 U                      | 1.3 U                      |
| Thallium                            | NA                                   |                     | mg/Kg | 2.8                        | 2.3                        | 2.3                        |
| Vanadium                            | NA                                   |                     | mg/Kg | 15.3 J                     | 13.3 J                     | 20.3 J                     |
| Zinc                                | 10000d                               |                     | mg/Kg | 91.3 J                     | 442 J                      | 76.1 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                     |       |                            |                            |                            |
| Mercury                             | 2.8j                                 |                     | mg/Kg | 0.024 J                    | 0.020 J                    | 0.036                      |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                     |       |                            |                            |                            |
| Cyanide                             | 27h                                  |                     | mg/Kg | 1.0 U                      | 1.0 U                      | 0.14 J                     |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                            | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-EPA-04-09 ATSS-EPA-05-09 ATSS-EPA-06-7.5 ATSS-EPR-01-02 ATSS-EPR-02-1.5 |          |          |          |          |
|------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------|----------|----------|----------|----------|
|                                    |                                      | Date: 07/10/07                                                                          | 07/10/07 | 07/10/07 | 07/10/07 | 07/10/07 |
| Method 8260B Volatiles (mg/kg)     |                                      |                                                                                         |          |          |          |          |
| 2-Butanone                         | 500b                                 | 0.040 J                                                                                 | 0.0060 U | 0.0052 U | 0.0051 U | 0.014 U  |
| Acetone                            | 500b                                 | 0.021 J                                                                                 | 0.011    | 0.0052 U | 0.0051 U | 0.014 U  |
| cis-1,2-Dichloroethene             | 500b                                 | 1.3                                                                                     | 0.0020 J | 0.0052 U | 0.0051 U | 0.014    |
| Methylene chloride                 | 500b                                 | 0.056 U                                                                                 | 0.0032 J | 0.0030 J | 0.0051 U | 0.014 U  |
| Naphthalene                        | 500b                                 | 0.011 U                                                                                 | 0.0022   | 0.0010 U | 0.0010 U | 0.0028 U |
| trans-1,2-Dichloroethene           | 500b                                 | 0.027 J                                                                                 | 0.0060 U | 0.0052 U | 0.0051 U | 0.014 U  |
| Trichloroethene                    | 200                                  | 3.3                                                                                     | 0.032    | 0.0020 J | 0.080    | 0.33     |
| Vinyl chloride                     | 13                                   | 0.028 J                                                                                 | 0.0060 U | 0.0052 U | 0.0051 U | 0.014 U  |
| Method 8270C Semivolatiles (mg/kg) |                                      |                                                                                         |          |          |          |          |
| 1,1'-Biphenyl                      | NA                                   | 0.18 U                                                                                  | 0.15 J   | 0.055 J  | 0.17 U   | 0.19 U   |
| 2,4-Dinitrophenol                  | NA                                   | 0.37 U                                                                                  | 2.4 U    | 0.37 U   | 0.35 U   | 0.38 U   |
| 2-Methylnaphthalene                | NA                                   | 0.18 U                                                                                  | 0.51 J   | 0.18 U   | 0.17 U   | 0.19 U   |
| 4,6-Dinitro-2-methylphenol         | NA                                   | 0.37 U                                                                                  | 2.4 U    | 0.37 U   | 0.35 U   | 0.38 U   |
| Acenaphthene                       | 500b                                 | 0.18 U                                                                                  | 7.6      | 0.18 U   | 0.17 U   | 0.19 U   |
| Acenaphthylene                     | 500b                                 | 0.18 U                                                                                  | 3.9      | 0.18 U   | 0.17 U   | 0.19 U   |
| Anthracene                         | 500b                                 | 0.18 U                                                                                  | 11       | 0.097 J  | 0.17 U   | 0.19 U   |
| Benzo(a)anthracene                 | 5.6                                  | 0.18 U                                                                                  | 27       | 0.055 J  | 0.17 U   | 0.13 J   |
| Benzo(g,h,i)perylene               | 500b                                 | 0.18 U                                                                                  | 22       | 0.18 U   | 0.17 U   | 0.10 J   |
| Benzo(a)pyrene                     | 1f                                   | 0.18 U                                                                                  | 28       | 0.18 U   | 0.17 U   | 0.12 J   |
| Benzo(b)fluoranthene               | 5.6                                  | 0.18 U                                                                                  | 51       | 0.18 U   | 0.17 U   | 0.18 J   |
| Benzo(k)fluoranthene               | 56                                   | 0.18 U                                                                                  | 14       | 0.18 U   | 0.17 U   | 0.066 J  |
| Bis(2-ethylhexyl)phthalate         | NA                                   | 0.028 J                                                                                 | 0.52 J   | 0.049 J  | 0.064 J  | 0.056 J  |
| Carbazole                          | NA                                   | 0.18 U                                                                                  | 4.0      | 0.18 U   | 0.17 U   | 0.19 U   |
| Chrysene                           | 56                                   | 0.18 U                                                                                  | 27 J     | 0.13 J   | 0.035 J  | 0.15 J   |
| Dibenzo(a,h)anthracene             | 0.56                                 | 0.18 U                                                                                  | 8.1      | 0.18 U   | 0.17 U   | 0.19 U   |
| Dibenzofuran                       | 350                                  | 0.18 U                                                                                  | 4.1      | 0.16 J   | 0.17 U   | 0.19 U   |
| Fluoranthene                       | 500b                                 | 0.18 U                                                                                  | 96 J     | 0.16 J   | 0.17 U   | 0.14 J   |
| Fluorene                           | 500b                                 | 0.18 U                                                                                  | 6.4      | 0.75     | 0.17 U   | 0.19 U   |
| Indeno(1,2,3-cd)pyrene             | 5.6                                  | 0.18 U                                                                                  | 22 J     | 0.18 U   | 0.17 U   | 0.084 J  |
| Naphthalene                        | 500b                                 | 0.18 U                                                                                  | 0.38 J   | 0.18 U   | 0.17 U   | 0.19 U   |
| Phenanthrene                       | 500b                                 | 0.18 U                                                                                  | 74 J     | 0.12 J   | 0.029 J  | 0.19 U   |
| Pyrene                             | 500b                                 | 0.18 U                                                                                  | 35 J     | 0.22     | 0.17 U   | 0.11 J   |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening Criteria <sup>(1)</sup> | Sample ID: ATSS-EPA-04-09 ATSS-EPA-05-09 ATSS-EPA-06-7.5 ATSS-EPR-01-02 ATSS-EPR-02-1.5 |          |          |          |          |
|------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------|----------|----------|----------|----------|
|                              |                                   | Date: 07/10/07                                                                          | 07/10/07 | 07/10/07 | 07/10/07 | 07/10/07 |
| Method 6010B Metals (mg/kg)  |                                   |                                                                                         |          |          |          |          |
| Antimony                     | NA                                | 1.0 U                                                                                   | 1.0 U    | 0.97 U   | 0.96 U   | 1.1 U    |
| Arsenic                      | 16f                               | 5.8                                                                                     | 8.0      | 6.8      | 7.1      | 16.3     |
| Barium                       | 400                               | 240 J                                                                                   | 51.0 J   | 75.8 J   | 45.7 J   | 101 J    |
| Beryllium                    | 590                               | 0.45                                                                                    | 0.25 J   | 0.17 J   | 0.29     | 0.39     |
| Cadmium                      | 9.3                               | 0.63 J                                                                                  | 0.51 J   | 0.21 J   | 0.42 J   | 4.3 J    |
| Chromium                     | 400h                              | 30.6                                                                                    | 45.1     | 73.9     | 52.4     | 891      |
| Cobalt                       | NA                                | 6.6 J                                                                                   | 5.2 J    | 4.3 J    | 7.5 J    | 8.7 J    |
| Copper                       | 270                               | 28.9                                                                                    | 35.4     | 242      | 42.6     | 166      |
| Lead                         | 1000                              | 149 J                                                                                   | 155 J    | 67.8 J   | 21.7 J   | 1650 J   |
| Nickel                       | 310                               | 22.0 J                                                                                  | 30.5 J   | 18.4 J   | 46.4 J   | 311 J    |
| Selenium                     | 1500                              | 1.5 U                                                                                   | 1.5 U    | 2.3      | 1.8      | 2.0      |
| Silver                       | 1500                              | 1.5 U                                                                                   | 1.5 U    | 1.5 U    | 1.4 U    | 1.7 U    |
| Thallium                     | NA                                | 2.0                                                                                     | 1.3      | 2.9      | 2.5      | 3.9      |
| Vanadium                     | NA                                | 13.1 J                                                                                  | 10.9 J   | 8.2 J    | 9.9 J    | 102 J    |
| Zinc                         | 10000d                            | 60.7 J                                                                                  | 78.8 J   | 35.0 J   | 72.8 J   | 173 J    |
| Method 7471A Mercury (mg/kg) |                                   |                                                                                         |          |          |          |          |
| Mercury                      | 2.8j                              | 0.019 J                                                                                 | 0.012 J  | 0.037 U  | 0.0085 J | 0.040    |
| Method 9012B Cyanide (mg/kg) |                                   |                                                                                         |          |          |          |          |
| Cyanide                      | 27h                               | 1.0 U                                                                                   | 1.3      | 21.8     | 0.92 J   | 0.26 J   |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, AI Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                                   | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-EPR-03-02<br>Date: 07/10/07 |
|-------------------------------------------|--------------------------------------|---------------------------------------------|
| <b>Method 8260B Volatiles (mg/kg)</b>     |                                      |                                             |
| 2-Butanone                                | 500b                                 | 0.0053 U                                    |
| Acetone                                   | 500b                                 | 0.0053 U                                    |
| cis-1,2-Dichloroethene                    | 500b                                 | 0.0046 J                                    |
| Methylene chloride                        | 500b                                 | 0.0053 U                                    |
| Naphthalene                               | 500b                                 | 0.0011 U                                    |
| trans-1,2-Dichloroethene                  | 500b                                 | 0.0053 U                                    |
| Trichloroethene                           | 200                                  | 0.016                                       |
| Vinyl chloride                            | 13                                   | 0.0053 U                                    |
| <b>Method 8270C Semivolatiles (mg/kg)</b> |                                      |                                             |
| 1,1'-Biphenyl                             | NA                                   | 0.18 U                                      |
| 2,4-Dinitrophenol                         | NA                                   | 0.36 U                                      |
| 2-Methylnaphthalene                       | NA                                   | 0.18 U                                      |
| 4,6-Dinitro-2-methylphenol                | NA                                   | 0.36 U                                      |
| Acenaphthene                              | 500b                                 | 0.18 U                                      |
| Acenaphthylene                            | 500b                                 | 0.18 U                                      |
| Anthracene                                | 500b                                 | 0.18 U                                      |
| Benzo(a)anthracene                        | 5.6                                  | 0.18 U                                      |
| Benzo(g,h,i)perylene                      | 500b                                 | 0.18 U                                      |
| Benzo(a)pyrene                            | 1f                                   | 0.18 U                                      |
| Benzo(b)fluoranthene                      | 5.6                                  | 0.18 U                                      |
| Benzo(k)fluoranthene                      | 56                                   | 0.18 U                                      |
| Bis(2-ethylhexyl)phthalate                | NA                                   | 0.063 J                                     |
| Carbazole                                 | NA                                   | 0.18 U                                      |
| Chrysene                                  | 56                                   | 0.18 U                                      |
| Dibenzo(a,h)anthracene                    | 0.56                                 | 0.18 U                                      |
| Dibenzofuran                              | 350                                  | 0.18 U                                      |
| Fluoranthene                              | 500b                                 | 0.18 U                                      |
| Fluorene                                  | 500b                                 | 0.18 U                                      |
| Indeno(1,2,3-cd)pyrene                    | 5.6                                  | 0.18 U                                      |
| Naphthalene                               | 500b                                 | 0.18 U                                      |
| Phenanthrene                              | 500b                                 | 0.18 U                                      |
| Pyrene                                    | 500b                                 | 0.18 U                                      |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-EPR-03-02<br>Date: 07/10/07 |
|-------------------------------------|--------------------------------------|---------------------------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                             |
| Antimony                            | NA                                   | 0.88 U                                      |
| Arsenic                             | 16f                                  | 9.2                                         |
| Barium                              | 400                                  | 70.8 J                                      |
| Beryllium                           | 590                                  | 0.60                                        |
| Cadmium                             | 9.3                                  | 0.61 J                                      |
| Chromium                            | 400h                                 | 22.0                                        |
| Cobalt                              | NA                                   | 13.6 J                                      |
| Copper                              | 270                                  | 48.1                                        |
| Lead                                | 1000                                 | 50.2 J                                      |
| Nickel                              | 310                                  | 35.5 J                                      |
| Selenium                            | 1500                                 | 1.8                                         |
| Silver                              | 1500                                 | 1.3 U                                       |
| Thallium                            | NA                                   | 0.65 J                                      |
| Vanadium                            | NA                                   | 15.1 J                                      |
| Zinc                                | 10000d                               | 195 J                                       |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                             |
| Mercury                             | 2.8j                                 | 0.023 J                                     |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                             |
| Cyanide                             | 27h                                  | 1.0 U                                       |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening<br>Criteria <sup>(1)</sup> | Sample ID: | ATSS-GS-01-05 | ATSS-GS-01-05D | ATSS-GS-02-05 | ATSS-GS-03-07 | ATSS-GS-04-01 |
|------------------------------|--------------------------------------|------------|---------------|----------------|---------------|---------------|---------------|
|                              |                                      | Date:      | 07/11/07      | 07/11/07       | 07/11/07      | 07/11/07      | 07/11/07      |
| Method 6010B Metals (mg/kg)  |                                      |            |               |                |               |               |               |
| Antimony                     | NA                                   |            | 3.6 J         | 2.0 J          | 0.79 R        | 1.2 R         | 1.1 R         |
| Arsenic                      | 16f                                  |            | 9.0 J         | 8.0 J          | 9.8 J         | 13.8 J        | 13.0 J        |
| Barium                       | 400                                  |            | 98.2 J        | 114 J          | 132 J         | 111 J         | 115 J         |
| Beryllium                    | 590                                  |            | 0.80 J        | 0.62 J         | 1.0 J         | 0.62 J        | 0.58 J        |
| Cadmium                      | 9.3                                  |            | 0.50          | 0.74           | 0.84          | 1.1           | 0.63          |
| Chromium                     | 400h                                 |            | 25.7          | 59.5           | 103           | 676           | 320           |
| Cobalt                       | NA                                   |            | 7.7 J         | 7.6 J          | 10.2 J        | 49.0 J        | 19.9 J        |
| Copper                       | 270                                  |            | 37.2          | 39.0           | 69.8          | 108           | 61.7          |
| Lead                         | 1000                                 |            | 132 J         | 161 J          | 161 J         | 331 J         | 291 J         |
| Nickel                       | 310                                  |            | 19.4 J        | 36.0 J         | 56.0 J        | 5110 J        | 226 J         |
| Selenium                     | 1500                                 |            | 3.1 J         | 3.4 J          | 3.9 J         | 4.6 J         | 3.6 J         |
| Silver                       | 1500                                 |            | 1.8 R         | 2.1 R          | 2.0 R         | 1.8 R         | 1.7 R         |
| Thallium                     | NA                                   |            | 2.4 J         | 2.7 J          | 2.7 J         | 7.0 J         | 3.4 J         |
| Vanadium                     | NA                                   |            | 20.1 J        | 28.8 J         | 22.6 J        | 33.6 J        | 44.0 J        |
| Zinc                         | 10000d                               |            | 82.6 J        | 82.6 J         | 118 J         | 114 J         | 100 J         |
| Method 7471A Mercury (mg/kg) |                                      |            |               |                |               |               |               |
| Mercury                      | 2.8j                                 |            | 0.043 J       | 0.032 J        | 0.082         | 0.034 J       | 0.053         |
| Method 9012B Cyanide (mg/kg) |                                      |            |               |                |               |               |               |
| Cyanide                      | 27h                                  |            | 0.35 J        | 0.45 J         | 4.7 J         | 0.28 J        | 0.24 J        |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-GS-05-04 | ATSS-GS-06-3.5 | ATSS-GS-07-3.5 | ATSS-GS-08-4.5 | ATSS-GS-09-03 |
|------------------------------|--------------------------------------|--------------------------|----------------|----------------|----------------|---------------|
|                              |                                      | Date: 07/11/07           | 07/11/07       | 07/11/07       | 07/11/07       | 07/11/07      |
| Method 6010B Metals (mg/kg)  |                                      |                          |                |                |                |               |
| Antimony                     | NA                                   | 1.1 R                    | 52.8 J         | 1.2 R          | 119 J          | 1.1 R         |
| Arsenic                      | 16f                                  | 26.5 J                   | 9.8 J          | 43.8 J         | 72.7 J         | 21.4 J        |
| Barium                       | 400                                  | 105 J                    | 140 J          | 141 J          | 60.1 J         | 9.9 J         |
| Beryllium                    | 590                                  | 0.45 J                   | 0.55 J         | 0.041 J        | 0.063 J        | 0.015 J       |
| Cadmium                      | 9.3                                  | 3.2                      | 0.85           | 20.0           | 7.1            | 10.2          |
| Chromium                     | 400h                                 | 2880                     | 365            | 6020           | 6400           | 2550          |
| Cobalt                       | NA                                   | 57.2 J                   | 23.0 J         | 46.6 J         | 36.9 J         | 614 J         |
| Copper                       | 270                                  | 601                      | 178            | 335            | 587            | 1590          |
| Lead                         | 1000                                 | 523 J                    | 18300 J        | 2470 J         | 10700 J        | 293 J         |
| Nickel                       | 310                                  | 832 J                    | 194 J          | 2330 J         | 1340 J         | 6090 J        |
| Selenium                     | 1500                                 | 5.1 J                    | 7.0 J          | 1.7 U          | 3.1 J          | 1.7 U         |
| Silver                       | 1500                                 | 1.6 R                    | 1.5 R          | 1.7 R          | 1.7 R          | 1.7 R         |
| Thallium                     | NA                                   | 8.9 J                    | 5.3 J          | 11.9 J         | 14.4 J         | 11.2 J        |
| Vanadium                     | NA                                   | 581 J                    | 97.2 J         | 335 J          | 406 J          | 827 J         |
| Zinc                         | 10000d                               | 68.4 J                   | 62.0 J         | 95.4 J         | 83.5 J         | 21.7 J        |
| Method 7471A Mercury (mg/kg) |                                      |                          |                |                |                |               |
| Mercury                      | 2.8j                                 | 0.033 J                  | 0.070          | 0.15           | 0.13           | 0.050         |
| Method 9012B Cyanide (mg/kg) |                                      |                          |                |                |                |               |
| Cyanide                      | 27h                                  | 1.4 J                    | 0.39 J         | 0.51 J         | 1.2 J          | 0.20 J        |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-GS-10-04 | ATSS-GS-11-04 | ATSS-GS-12-4.5 | ATSS-GS-12-4.5D | ATSS-ID-01-04 |
|------------------------------|--------------------------------------|--------------------------|---------------|----------------|-----------------|---------------|
|                              |                                      | Date: 07/11/07           | 07/11/07      | 07/11/07       | 07/11/07        | 07/11/07      |
| Method 6010B Metals (mg/kg)  |                                      |                          |               |                |                 |               |
| Antimony                     | NA                                   | 0.92 R                   | 4.1 J         | 1.1 R          | 1.2 R           | 0.80 R        |
| Arsenic                      | 16f                                  | 9.2 J                    | 13.7 J        | 23.7 J         | 14.9 J          | 16.9 J        |
| Barium                       | 400                                  | 53.4 J                   | 103 J         | 234 J          | 225 J           | 72.6 J        |
| Beryllium                    | 590                                  | 0.40 J                   | 0.96 J        | 0.26 J         | 0.58 J          | 0.66 J        |
| Cadmium                      | 9.3                                  | 0.38                     | 0.62          | 7.0            | 1.4             | 0.14 J        |
| Chromium                     | 400h                                 | 12.5                     | 80.9          | 2190           | 473             | 54.8          |
| Cobalt                       | NA                                   | 9.2 J                    | 5.3 J         | 77.5 J         | 62.9 J          | 8.5 J         |
| Copper                       | 270                                  | 35.5                     | 48.6          | 1520           | 133             | 102           |
| Lead                         | 1000                                 | 18.6 J                   | 264 J         | 6180 J         | 1960 J          | 163 J         |
| Nickel                       | 310                                  | 41.5 J                   | 40.9 J        | 859 J          | 315 J           | 15.8 J        |
| Selenium                     | 1500                                 | 2.3 J                    | 4.1 J         | 9.9 J          | 5.4 J           | 7.0 J         |
| Silver                       | 1500                                 | 1.4 R                    | 1.9 R         | 1.6 R          | 1.7 R           | 1.8 R         |
| Thallium                     | NA                                   | 2.0 J                    | 4.5 J         | 6.7 J          | 4.4 J           | 5.4 J         |
| Vanadium                     | NA                                   | 15.5 J                   | 21.5 J        | 183 J          | 77.7 J          | 48.2 J        |
| Zinc                         | 10000d                               | 98.9 J                   | 30.0 J        | 224 J          | 151 J           | 24.9 J        |
| Method 7471A Mercury (mg/kg) |                                      |                          |               |                |                 |               |
| Mercury                      | 2.8j                                 | 0.016 J                  | 0.073         | 0.28           | 0.14            | 0.099         |
| Method 9012B Cyanide (mg/kg) |                                      |                          |               |                |                 |               |
| Cyanide                      | 27h                                  | 0.98 U                   | 0.56 J        | 1.1 J          | 1.2 J           | 0.28 J        |



**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-ID-02-04<br>07/11/07 | ATSS-ID-03-04<br>07/11/07 | ATSS-ID-04-03<br>07/11/07 | ATSS-ID-05-02<br>07/11/07 | ATSS-ID-06-04<br>07/11/07 |
|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                               |                           |                           |                           |                           |
| Antimony                            | NA                                   | 2.6 J                                         | 1.9 J                     | 3.7 J                     | 1.1 R                     | 64.9 J                    |
| Arsenic                             | 16f                                  | <b>17.7 J</b>                                 | <b>38.3 J</b>             | 6.6 J                     | <b>39.7 J</b>             | <b>130 J</b>              |
| Barium                              | 400                                  | 207 J                                         | 67.2 J                    | <b>1540 J</b>             | 86.9 J                    | 54.8 J                    |
| Beryllium                           | 590                                  | 0.21 J                                        | 0.38                      | 0.88                      | 0.33                      | 0.19 J                    |
| Cadmium                             | 9.3                                  | 5.5 J                                         | 1.1 J                     | 1.2 J                     | 2.0 J                     | 6.6 J                     |
| Chromium                            | 400h                                 | 335 J                                         | <b>738 J</b>              | 107 J                     | <b>840 J</b>              | <b>20900 J</b>            |
| Cobalt                              | NA                                   | 23.2 J                                        | 72.9 J                    | 5.4 J                     | 14.6 J                    | 286 J                     |
| Copper                              | 270                                  | <b>321 J</b>                                  | 230 J                     | 71.6 J                    | 54.1 J                    | <b>663 J</b>              |
| Lead                                | 1000                                 | 526 J                                         | <b>5780 J</b>             | <b>1610 J</b>             | 16.4 J                    | 131 J                     |
| Nickel                              | 310                                  | 148 J                                         | 46.0 J                    | 138 J                     | 44.1 J                    | <b>11800 J</b>            |
| Selenium                            | 1500                                 | 1.7 U                                         | 4.8 J                     | 1.6 U                     | 8.2 J                     | 4.2 J                     |
| Silver                              | 1500                                 | 1.7 U                                         | 1.4 U                     | 5.0 J                     | 1.7 U                     | 1.5 U                     |
| Thallium                            | NA                                   | 12.8 J                                        | 8.1 J                     | 1.1 U                     | 13.7 J                    | 8.6 J                     |
| Vanadium                            | NA                                   | 75.1 J                                        | 491 J                     | 13.8 J                    | 369 J                     | 878 J                     |
| Zinc                                | 10000d                               | 407 J                                         | 30.3 J                    | 139 J                     | 7.5 J                     | 85.8 J                    |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                               |                           |                           |                           |                           |
| Mercury                             | 2.8j                                 | 0.014 J                                       | 0.025 J                   | 0.034 U                   | 0.031 U                   | 0.050                     |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                               |                           |                           |                           |                           |
| Cyanide                             | 27h                                  | 0.57 J                                        | 0.21 J                    | 0.16 J                    | 1.0 U                     | 0.44 J                    |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-ID-07-3.5<br>07/11/07 | ATSS-ID-07-3.5D<br>07/11/07 | ATSS-ID-08-04<br>07/11/07 | ATSS-ID-09-3.5<br>07/11/07 | ATSS-ID-10-0.6<br>07/11/07 |
|-------------------------------------|--------------------------------------|------------------------------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                                |                             |                           |                            |                            |
| Antimony                            | NA                                   | 18.2 J                                         | 1.7 J                       | 1.3 R                     | 0.44 J                     | 10.4 J                     |
| Arsenic                             | 16f                                  | <b>23.2 J</b>                                  | <b>18.8 J</b>               | 3.8 J                     | 3.4 J                      | 11.5 J                     |
| Barium                              | 400                                  | <b>957 J</b>                                   | <b>480 J</b>                | 161 J                     | 128 J                      | 227 J                      |
| Beryllium                           | 590                                  | 0.35                                           | 0.29                        | 0.75                      | 0.62                       | 0.21 J                     |
| Cadmium                             | 9.3                                  | 0.88 J                                         | 0.35 J                      | 0.41 J                    | 0.38 J                     | 0.12 J                     |
| Chromium                            | 400h                                 | <b>1420 J</b>                                  | <b>817 J</b>                | 24.1 J                    | 21.3 J                     | 330 J                      |
| Cobalt                              | NA                                   | 7.0 J                                          | 3.9 J                       | 11.1 J                    | 7.7 J                      | 6.4 J                      |
| Copper                              | 270                                  | 25.1 J                                         | 26.0 J                      | 15.8 J                    | 13.3 J                     | 102 J                      |
| Lead                                | 1000                                 | <b>2530 J</b>                                  | 178 J                       | 17.1 J                    | 50.3 J                     | <b>3100 J</b>              |
| Nickel                              | 310                                  | 34.0 J                                         | 13.9 J                      | 22.2 J                    | 16.6 J                     | 41.3 J                     |
| Selenium                            | 1500                                 | 9.9 J                                          | 8.2 J                       | 2.9 J                     | 2.9 J                      | 6.4 J                      |
| Silver                              | 1500                                 | 1.6 U                                          | 1.6 U                       | 1.9 U                     | 1.8 U                      | 1.5 U                      |
| Thallium                            | NA                                   | 6.0 J                                          | 1.1 U                       | 2.9 J                     | 2.1 J                      | 5.3 J                      |
| Vanadium                            | NA                                   | 1190 J                                         | 1140 J                      | 33.1 J                    | 29.0 J                     | 58.1 J                     |
| Zinc                                | 10000d                               | 15.5 J                                         | 12.8 J                      | 71.8 J                    | 69.5 J                     | 53.6 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                                |                             |                           |                            |                            |
| Mercury                             | 2.8j                                 | 0.028 J                                        | 0.010 J                     | 0.054                     | 0.024 J                    | 0.048                      |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                                |                             |                           |                            |                            |
| Cyanide                             | 27h                                  | 0.19 J                                         | 0.18 J                      | 0.17 J                    | 1.0 U                      | 0.16 J                     |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-ID-10-4.5<br>07/11/07 | ATSS-ID-11-2.8<br>07/11/07 | ATSS-ID-13-02<br>07/11/07 | ATSS-ID-14-2.5<br>07/11/07 | ATSS-ID-15-03<br>07/11/07 |
|-------------------------------------|--------------------------------------|------------------------------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                                |                            |                           |                            |                           |
| Antimony                            | NA                                   | 3.3 J                                          | 1.1 R                      | 1.2 U                     | 2.5 J                      | 2.3 J                     |
| Arsenic                             | 16f                                  | 14.0 J                                         | 8.0 J                      | <b>24.7 J</b>             | <b>32.9 J</b>              | 9.6 J                     |
| Barium                              | 400                                  | <b>2360 J</b>                                  | 81.7 J                     | 5.6 J                     | 193 J                      | 111 J                     |
| Beryllium                           | 590                                  | 0.45                                           | 0.40                       | 0.35 U                    | 0.65                       | 0.57                      |
| Cadmium                             | 9.3                                  | 0.27 J                                         | 0.36 J                     | 2.5 J                     | 0.43 J                     | 0.45 J                    |
| Chromium                            | 400h                                 | <b>462 J</b>                                   | 10.9 J                     | <b>2580 J</b>             | 138 J                      | 177 J                     |
| Cobalt                              | NA                                   | 5.5 J                                          | 10.3 J                     | 280 J                     | 7.8 J                      | 8.4 J                     |
| Copper                              | 270                                  | 36.5 J                                         | 23.6 J                     | <b>2170</b>               | 164 J                      | 120 J                     |
| Lead                                | 1000                                 | 255 J                                          | 12.5 J                     | 27.7 J                    | 163 J                      | 388 J                     |
| Nickel                              | 310                                  | 18.2 J                                         | 20.8 J                     | <b>11900 J</b>            | 26.4 J                     | 46.9 J                    |
| Selenium                            | 1500                                 | 8.1 J                                          | 2.1 J                      | 3.8 J                     | 5.0 J                      | 1.3 J                     |
| Silver                              | 1500                                 | 1.8 U                                          | 1.6 U                      | 1.8 U                     | 1.5 U                      | 1.7 U                     |
| Thallium                            | NA                                   | 8.5 J                                          | 1.7 J                      | 1.2 U                     | 3.9 J                      | 2.1 J                     |
| Vanadium                            | NA                                   | 395 J                                          | 14.0 J                     | 46 J                      | 41.1 J                     | 25.1 J                    |
| Zinc                                | 10000d                               | 15.8 J                                         | 116 J                      | 29.9 J                    | 159 J                      | 112 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                                |                            |                           |                            |                           |
| Mercury                             | 2.8j                                 | 0.034 U                                        | 0.032 U                    | 0.044 U                   | 0.12                       | 0.050                     |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                                |                            |                           |                            |                           |
| Cyanide                             | 27h                                  | 1.0 U                                          | 1.1 U                      | 1.1 U                     | 1.0 U                      | 0.98 U                    |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-ID-16-0.6<br>07/11/07 | ATSS-ID-17-05<br>07/11/07 | ATSS-NP-01-02<br>07/09/07 | ATSS-NP-02-1.5<br>07/09/07 | ATSS-NP-03-04<br>07/09/07 |
|-------------------------------------|--------------------------------------|------------------------------------------------|---------------------------|---------------------------|----------------------------|---------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                                |                           |                           |                            |                           |
| Antimony                            | NA                                   | 1.5 J                                          | 0.84 J                    | 1.3 U                     | 8 J                        | 1.1 U                     |
| Arsenic                             | 16f                                  | 3.5 J                                          | 3.5 J                     | 6.1 J                     | <b>33.8 J</b>              | <b>58.2 J</b>             |
| Barium                              | 400                                  | 76.7 J                                         | 183 J                     | 149 J                     | 294 J                      | 339 J                     |
| Beryllium                           | 590                                  | 0.24 J                                         | 0.55                      | 0.86                      | 0.72                       | 0.92                      |
| Cadmium                             | 9.3                                  | 0.13 J                                         | 0.67 J                    | 0.56 J                    | 2.3 J                      | 2.6 J                     |
| Chromium                            | 400h                                 | 12.6 J                                         | 46.3 J                    | 29.8 J                    | <b>440 J</b>               | <b>1800 J</b>             |
| Cobalt                              | NA                                   | 3.1 J                                          | 9.4 J                     | 15.6 J                    | 52.5 J                     | 144 J                     |
| Copper                              | 270                                  | 24.7 J                                         | 36.9 J                    | 101                       | <b>3970</b>                | <b>374</b>                |
| Lead                                | 1000                                 | 958 J                                          | 31.8 J                    | 22.5 J                    | <b>5610 J</b>              | <b>8650 J</b>             |
| Nickel                              | 310                                  | 8.3 J                                          | 80.6 J                    | 35.4 J                    | 95.3 J                     | <b>677 J</b>              |
| Selenium                            | 1500                                 | 0.54 J                                         | 1.6 U                     | 3.8 J                     | 10.7 J                     | 10.1 J                    |
| Silver                              | 1500                                 | 1.5 U                                          | 1.6 U                     | 1.9 U                     | 1.5 U                      | 1.7 U                     |
| Thallium                            | NA                                   | 1.2 J                                          | 1.5 J                     | 1.3 U                     | 9.2 J                      | 4.7 J                     |
| Vanadium                            | NA                                   | 9.5 J                                          | 24.3 J                    | 26.7 J                    | 262 J                      | 320 J                     |
| Zinc                                | 10000d                               | 29.9 J                                         | 177 J                     | 90.9 J                    | 145 J                      | 127 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                                |                           |                           |                            |                           |
| Mercury                             | 2.8j                                 | 0.028 J                                        | 0.085                     | 0.039 U                   | 0.034 U                    | 0.06                      |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                                |                           |                           |                            |                           |
| Cyanide                             | 27h                                  | 0.94 U                                         | 0.95 U                    | 1.2 U                     | 0.23 J                     | 0.52 J                    |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening<br>Criteria <sup>(1)</sup> | Sample ID:             | ATSS-NP-05-1.5-            |               |                            |                           |
|------------------------------|--------------------------------------|------------------------|----------------------------|---------------|----------------------------|---------------------------|
|                              |                                      | ATSS-NP-04-01<br>Date: | ATSS-NP-05-1.5<br>07/09/07 | D<br>07/09/07 | ATSS-NP-06-1.5<br>07/09/07 | ATSS-NP-07-03<br>07/09/07 |
| Method 6010B Metals (mg/kg)  |                                      |                        |                            |               |                            |                           |
| Antimony                     | NA                                   | 550 J                  | 2.7 J                      | 7.7 J         | 98.4 J                     | 1.3 U                     |
| Arsenic                      | 16f                                  | 225 J                  | 28 J                       | 53 J          | 185 J                      | 14.7 J                    |
| Barium                       | 400                                  | 3920 J                 | 532 J                      | 259 J         | 604 J                      | 214 J                     |
| Beryllium                    | 590                                  | 1.6 U                  | 2.5                        | 0.56          | 0.27 J                     | 1.5                       |
| Cadmium                      | 9.3                                  | 13.4 J                 | 1.4 J                      | 1.8 J         | 3.9 J                      | 1.3 J                     |
| Chromium                     | 400h                                 | 63000 J                | 2330 J                     | 5980 J        | 20500 J                    | 449 J                     |
| Cobalt                       | NA                                   | 214 J                  | 21.5 J                     | 95.3 J        | 102 J                      | 14.6 J                    |
| Copper                       | 270                                  | 1190                   | 143                        | 89.7          | 378                        | 83.6                      |
| Lead                         | 1000                                 | 6410 J                 | 600 J                      | 349 J         | 209 J                      | 1040 J                    |
| Nickel                       | 310                                  | 31500 J                | 624 J                      | 1710 J        | 12900 J                    | 257 J                     |
| Selenium                     | 1500                                 | 1.6 U                  | 1.7 U                      | 6.9 J         | 8.4 J                      | 5.7 J                     |
| Silver                       | 1500                                 | 1.6 U                  | 0.72 J                     | 1.5 U         | 1.5 U                      | 2 U                       |
| Thallium                     | NA                                   | 14.9 J                 | 1.1 U                      | 6.7 J         | 9.3 J                      | 3.3 J                     |
| Vanadium                     | NA                                   | 142 J                  | 57.4 J                     | 95.6 J        | 132 J                      | 39.3 J                    |
| Zinc                         | 10000d                               | 165 J                  | 164 J                      | 101 J         | 199 J                      | 140 J                     |
| Method 7471A Mercury (mg/kg) |                                      |                        |                            |               |                            |                           |
| Mercury                      | 2.8j                                 | 0.033 J                | 0.081                      | 0.036 U       | 0.057                      | 0.057                     |
| Method 9012B Cyanide (mg/kg) |                                      |                        |                            |               |                            |                           |
| Cyanide                      | 27h                                  | 0.35 J                 | 0.34 J                     | 1.3 J         | 0.38 J                     | 1.1 U                     |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-NP-08-1.5 | ATSS-NP-09-1.5 | ATSS-NP-11-01 | ATSS-NP-12-10.5 | ATSS-NP-13-05 |
|------------------------------|--------------------------------------|---------------------------|----------------|---------------|-----------------|---------------|
|                              |                                      | Date: 07/09/07            | 07/09/07       | 07/09/07      | 07/09/07        | 07/09/07      |
| Method 6010B Metals (mg/kg)  |                                      |                           |                |               |                 |               |
| Antimony                     | NA                                   | 1.4 J                     | 1.3 U          | 0.89 R        | 0.56 J          | 0.27 J        |
| Arsenic                      | 16f                                  | 17.5 J                    | 6.4 J          | 31.2 J        | 2.7 J           | 3.0 J         |
| Barium                       | 400                                  | 1900 J                    | 111 J          | 137 J         | 149 J           | 22.9 J        |
| Beryllium                    | 590                                  | 0.19 J                    | 0.43           | 0.69          | 0.55            | 0.18 J        |
| Cadmium                      | 9.3                                  | 0.058 J                   | 0.33 J         | 1.1 J         | 0.40 J          | 0.22 J        |
| Chromium                     | 400h                                 | 422 J                     | 215 J          | 2040 J        | 102 J           | 66.9 J        |
| Cobalt                       | NA                                   | 2.4 J                     | 5.6 J          | 24.7 J        | 12.3 J          | 3.4 J         |
| Copper                       | 270                                  | 85.4                      | 23.4           | 97.5 J        | 40.5 J          | 12.1 J        |
| Lead                         | 1000                                 | 655 J                     | 15.2 J         | 389 J         | 16.6 J          | 19.4 J        |
| Nickel                       | 310                                  | 72.4 J                    | 15.2 J         | 878 J         | 88.1 J          | 44.6 J        |
| Selenium                     | 1500                                 | 4.6 J                     | 3.2 J          | 2.7 J         | 0.84 J          | 1.2 J         |
| Silver                       | 1500                                 | 1.6 U                     | 1.9 U          | 1.3 U         | 1.7 U           | 1.4 U         |
| Thallium                     | NA                                   | 3.4 J                     | 2.9 J          | 3.1 J         | 2.3 J           | 0.77 J        |
| Vanadium                     | NA                                   | 32.9 J                    | 28.6 J         | 91.7 J        | 18.2 J          | 5.7 J         |
| Zinc                         | 10000d                               | 47.3 J                    | 70.4 J         | 142 J         | 68.2 J          | 52.7 J        |
| Method 7471A Mercury (mg/kg) |                                      |                           |                |               |                 |               |
| Mercury                      | 2.8j                                 | 0.038 U                   | 0.041 U        | 0.068         | 0.016 J         | 0.033 U       |
| Method 9012B Cyanide (mg/kg) |                                      |                           |                |               |                 |               |
| Cyanide                      | 27h                                  | 0.13 J                    | 1.1 U          | 0.32 J        | 1.3 U           | 0.23 J        |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-NP-13-05D    ATSS-NP-14-02    ATSS-NP-15-02 |          |          |          |
|------------------------------|--------------------------------------|-------------------------------------------------------------|----------|----------|----------|
|                              |                                      | Date: 07/09/07                                              | 07/09/07 | 07/09/07 | 07/09/07 |
| Method 6010B Metals (mg/kg)  |                                      |                                                             |          |          |          |
| Antimony                     | NA                                   | 0.48 J                                                      | 6.7 J    | 1.1 U    |          |
| Arsenic                      | 16f                                  | 4.4 J                                                       | 57.6 J   | 16.9 J   |          |
| Barium                       | 400                                  | 63.6 J                                                      | 141 J    | 152 J    |          |
| Beryllium                    | 590                                  | 0.20 J                                                      | 0.59     | 0.81     |          |
| Cadmium                      | 9.3                                  | 0.32 J                                                      | 1.8 J    | 0.82 J   |          |
| Chromium                     | 400h                                 | 129 J                                                       | 5200 J   | 146 J    |          |
| Cobalt                       | NA                                   | 4.7 J                                                       | 50.7 J   | 14.3 J   |          |
| Copper                       | 270                                  | 15.1 J                                                      | 294      | 101      |          |
| Lead                         | 1000                                 | 39.8 J                                                      | 292 J    | 93.1 J   |          |
| Nickel                       | 310                                  | 67.8 J                                                      | 1420 J   | 83.9 J   |          |
| Selenium                     | 1500                                 | 1.1 J                                                       | 7.5 J    | 2.9 J    |          |
| Silver                       | 1500                                 | 1.5 U                                                       | 1.5 U    | 1.6 U    |          |
| Thallium                     | NA                                   | 0.59 J                                                      | 5.2 J    | 3.7 J    |          |
| Vanadium                     | NA                                   | 8.4 J                                                       | 151 J    | 35.2 J   |          |
| Zinc                         | 10000d                               | 66.2 J                                                      | 177 J    | 77 J     |          |
| Method 7471A Mercury (mg/kg) |                                      |                                                             |          |          |          |
| Mercury                      | 2.8j                                 | 0.037 U                                                     | 0.036 U  | 0.037 U  |          |
| Method 9012B Cyanide (mg/kg) |                                      |                                                             |          |          |          |
| Cyanide                      | 27h                                  | 0.99 U                                                      | 1.1 U    | 1.1 U    |          |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                                   | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-NP-16-06<br>07/10/07 | ATSS-NP-17-02<br>07/10/07 | ATSS-NP-18-1.5<br>07/10/07 | ATSS-NP-19-1.5<br>07/10/07 | ATSS-NP-20-01<br>07/10/07 |
|-------------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------|----------------------------|----------------------------|---------------------------|
| <b>Method 8260B Volatiles (mg/kg)</b>     |                                      |                                               |                           |                            |                            |                           |
| 2-Butanone                                | 500b                                 | 0.0061 U                                      | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| Acetone                                   | 500b                                 | 0.015                                         | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| cis-1,2-Dichloroethene                    | 500b                                 | 0.0061 U                                      | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| Methylene chloride                        | 500b                                 | 0.0061 U                                      | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| Naphthalene                               | 500b                                 | 0.0012 U                                      | 0.0011 U                  | 0.0011 U                   | 0.0011 U                   | 0.0012 U                  |
| trans-1,2-Dichloroethene                  | 500b                                 | 0.0061 U                                      | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| Trichloroethene                           | 200                                  | 0.0061 U                                      | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| Vinyl chloride                            | 13                                   | 0.0061 U                                      | 0.0055 U                  | 0.0056 U                   | 0.0053 U                   | 0.0060 U                  |
| <b>Method 8270C Semivolatiles (mg/kg)</b> |                                      |                                               |                           |                            |                            |                           |
| 1,1'-Biphenyl                             | NA                                   | 0.20 U                                        | 0.19 U                    | 0.022 J                    | 0.19 U                     | 0.20 U                    |
| 2,4-Dinitrophenol                         | NA                                   | 0.41 R                                        | 0.39 R                    | 0.39 U                     | 0.39 U                     | 0.40 U                    |
| 2-Methylnaphthalene                       | NA                                   | 0.20 U                                        | 0.19 U                    | 0.22                       | 0.14 J                     | 0.20 U                    |
| 4,6-Dinitro-2-methylphenol                | NA                                   | 0.41 R                                        | 0.39 R                    | 0.39 U                     | 0.39 U                     | 0.40 U                    |
| Acenaphthene                              | 500b                                 | 0.20 U                                        | 0.19 U                    | 0.045 J                    | 0.19 U                     | 0.20 U                    |
| Acenaphthylene                            | 500b                                 | 0.20 U                                        | 0.19 U                    | 0.034 J                    | 0.031 J                    | 0.20 U                    |
| Anthracene                                | 500b                                 | 0.051 J                                       | 0.19 U                    | 0.13 J                     | 0.040 J                    | 0.20 U                    |
| Benzo(a)anthracene                        | 5.6                                  | 0.15 J                                        | 0.088 J                   | 0.41                       | 0.17 J                     | 0.037 J                   |
| Benzo(g,h,i)perylene                      | 500b                                 | 0.063 J                                       | 0.064 J                   | 0.19                       | 0.094 J                    | 0.20 U                    |
| Benzo(a)pyrene                            | 1f                                   | 0.10 J                                        | 0.081 J                   | 0.29                       | 0.14 J                     | 0.044 J                   |
| Benzo(b)fluoranthene                      | 5.6                                  | 0.11 J                                        | 0.11 J                    | 0.42                       | 0.19                       | 0.071 J                   |
| Benzo(k)fluoranthene                      | 56                                   | 0.054 J                                       | 0.063 J                   | 0.17 J                     | 0.092 J                    | 0.029 J                   |
| Bis(2-ethylhexyl)phthalate                | NA                                   | 0.20 U                                        | 0.19 U                    | 0.073 J                    | 0.076 J                    | 0.074 J                   |
| Carbazole                                 | NA                                   | 0.20 U                                        | 0.19 U                    | 0.086 J                    | 0.19 U                     | 0.20 U                    |
| Chrysene                                  | 56                                   | 0.13 J                                        | 0.094 J                   | 0.39                       | 0.18 J                     | 0.051 J                   |
| Dibenzo(a,h)anthracene                    | 0.56                                 | 0.20 U                                        | 0.19 U                    | 0.059 J                    | 0.19 U                     | 0.20 U                    |
| Dibenzofuran                              | 350                                  | 0.20 U                                        | 0.19 U                    | 0.095 J                    | 0.048 J                    | 0.20 U                    |
| Fluoranthene                              | 500b                                 | 0.34                                          | 0.17 J                    | 1.0                        | 0.34                       | 0.091 J                   |
| Fluorene                                  | 500b                                 | 0.20 U                                        | 0.19 U                    | 0.061 J                    | 0.19 U                     | 0.20 U                    |
| Indeno(1,2,3-cd)pyrene                    | 5.6                                  | 0.050 J                                       | 0.056 J                   | 0.17 J                     | 0.081 J                    | 0.20 U                    |
| Naphthalene                               | 500b                                 | 0.20 U                                        | 0.19 U                    | 0.15 J                     | 0.082 J                    | 0.20 U                    |
| Phenanthrene                              | 500b                                 | 0.16 J                                        | 0.072 J                   | 0.90                       | 0.21                       | 0.033 J                   |
| Pyrene                                    | 500b                                 | 0.29                                          | 0.13 J                    | 0.70                       | 0.24                       | 0.064 J                   |



**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-NP-16-06<br>Date: 07/10/07 | ATSS-NP-17-02<br>07/10/07 | ATSS-NP-18-1.5<br>07/10/07 | ATSS-NP-19-1.5<br>07/10/07 | ATSS-NP-20-01<br>07/10/07 |
|-------------------------------------|--------------------------------------|--------------------------------------------|---------------------------|----------------------------|----------------------------|---------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                            |                           |                            |                            |                           |
| Antimony                            | NA                                   | 1.1 U                                      | 1.1 U                     | 1.0 U                      | 1.1 J                      | 1.2 U                     |
| Arsenic                             | 16f                                  | 12.3                                       | 4                         | 15.4                       | <b>38.3</b>                | 11.6                      |
| Barium                              | 400                                  | 134                                        | 121                       | <b>861 J</b>               | <b>2230 J</b>              | 178 J                     |
| Beryllium                           | 590                                  | 0.49                                       | 0.64                      | 0.67                       | 1.2                        | 0.80                      |
| Cadmium                             | 9.3                                  | 0.39                                       | 0.43                      | 0.85 J                     | 1.7 J                      | 1.1 J                     |
| Chromium                            | 400h                                 | <b>684</b>                                 | 33.7                      | 84.7                       | <b>2730</b>                | 25.8                      |
| Cobalt                              | NA                                   | 12.7                                       | 8.6                       | 9.4 J                      | 37.0 J                     | 22.5 J                    |
| Copper                              | 270                                  | 103                                        | 32.2                      | <b>423</b>                 | <b>984</b>                 | 33.6                      |
| Lead                                | 1000                                 | 46.8                                       | 37.5                      | <b>1260 J</b>              | <b>5000 J</b>              | 28.1 J                    |
| Nickel                              | 310                                  | 221                                        | 37                        | 35.7 J                     | <b>873 J</b>               | 46.1 J                    |
| Selenium                            | 1500                                 | 2.1                                        | 2.7                       | 4.0                        | 6.5                        | 3.0                       |
| Silver                              | 1500                                 | 1.6 U                                      | 1.6 U                     | 1.6 U                      | 1.5 U                      | 1.8 U                     |
| Thallium                            | NA                                   | 3.4                                        | 2.4                       | 2.7                        | 3.9                        | 0.99 J                    |
| Vanadium                            | NA                                   | 19.8                                       | 23.7                      | 22.5 J                     | 81.8 J                     | 25.7 J                    |
| Zinc                                | 10000d                               | 115                                        | 101                       | 185 J                      | 382 J                      | 86.0 J                    |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                            |                           |                            |                            |                           |
| Mercury                             | 2.8j                                 | 0.035 U                                    | 0.038 U                   | 0.22                       | 0.28                       | 0.029 J                   |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                            |                           |                            |                            |                           |
| Cyanide                             | 27h                                  | 0.31 J                                     | 1 U                       | 0.34 J                     | 0.41 J                     | 1.1 U                     |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                                   | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-NP-21-02<br>07/10/07 | ATSS-NP-22-02<br>07/10/07 | ATSS-NP-23-03<br>07/10/07 | ATSS-NP-24-02<br>07/10/07 | ATSS-NP-24-02D<br>07/10/07 |
|-------------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| <b>Method 8260B Volatiles (mg/kg)</b>     |                                      |                                               |                           |                           |                           |                            |
| 2-Butanone                                | 500b                                 | 0.0057                                        | 0.0057 U                  | 0.0057 U                  | 0.0058 U                  | 0.0060 U                   |
| Acetone                                   | 500b                                 | 0.031                                         | 0.0057 U                  | 0.0057 U                  | 0.0058 U                  | 0.0060 U                   |
| cis-1,2-Dichloroethene                    | 500b                                 | 0.0012 J                                      | 0.0057 U                  | 0.0057 U                  | 0.0058 U                  | 0.0060 U                   |
| Methylene chloride                        | 500b                                 | 0.0014 J                                      | 0.0024 J                  | 0.0057 U                  | 0.0058 U                  | 0.0060 U                   |
| Naphthalene                               | 500b                                 | 0.0010 U                                      | 0.0011 U                  | 0.0011 U                  | 0.0012 U                  | 0.0012 U                   |
| trans-1,2-Dichloroethene                  | 500b                                 | 0.0052 U                                      | 0.0057 U                  | 0.0057 U                  | 0.0058 U                  | 0.0060 U                   |
| Trichloroethene                           | 200                                  | 0.018                                         | 0.0016 J                  | 0.016                     | 0.0058 U                  | 0.0060 U                   |
| Vinyl chloride                            | 13                                   | 0.0052 U                                      | 0.0057 U                  | 0.0057 U                  | 0.0058 U                  | 0.0060 U                   |
| <b>Method 8270C Semivolatiles (mg/kg)</b> |                                      |                                               |                           |                           |                           |                            |
| 1,1'-Biphenyl                             | NA                                   | 0.18 U                                        | 0.023 J                   | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| 2,4-Dinitrophenol                         | NA                                   | 0.37 U                                        | 0.39 U                    | 0.40 U                    | 0.40 U                    | 0.41 U                     |
| 2-Methylnaphthalene                       | NA                                   | 0.032 J                                       | 0.32                      | 0.069 J                   | 0.20 U                    | 0.20 U                     |
| 4,6-Dinitro-2-methylphenol                | NA                                   | 0.37 U                                        | 0.39 U                    | 0.40 U                    | 0.40 U                    | 0.41 U                     |
| Acenaphthene                              | 500b                                 | 0.051 J                                       | 0.19 U                    | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Acenaphthylene                            | 500b                                 | 0.026 J                                       | 0.19 U                    | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Anthracene                                | 500b                                 | 0.16 J                                        | 0.19 U                    | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Benzo(a)anthracene                        | 5.6                                  | 0.78                                          | 0.10 J                    | 0.084 J                   | 0.20 U                    | 0.20 U                     |
| Benzo(g,h,i)perylene                      | 500b                                 | 0.32                                          | 0.14 J                    | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Benzo(a)pyrene                            | 1f                                   | 0.57                                          | 0.085 J                   | 0.073 J                   | 0.20 U                    | 0.20 U                     |
| Benzo(b)fluoranthene                      | 5.6                                  | 0.89                                          | 0.20                      | 0.098 J                   | 0.20 U                    | 0.20 U                     |
| Benzo(k)fluoranthene                      | 56                                   | 0.37                                          | 0.075 J                   | 0.051 J                   | 0.20 U                    | 0.20 U                     |
| Bis(2-ethylhexyl)phthalate                | NA                                   | 0.18 U                                        | 0.087 J                   | 0.062 J                   | 0.070 J                   | 0.065 J                    |
| Carbazole                                 | NA                                   | 0.088 J                                       | 0.19 U                    | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Chrysene                                  | 56                                   | 0.63                                          | 0.16 J                    | 0.072 J                   | 0.20 U                    | 0.20 U                     |
| Dibenzo(a,h)anthracene                    | 0.56                                 | 0.11 J                                        | 0.047 J                   | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Dibenzofuran                              | 350                                  | 0.032 J                                       | 0.087 J                   | 0.020 J                   | 0.20 U                    | 0.20 U                     |
| Fluoranthene                              | 500b                                 | 2.0                                           | 0.14 J                    | 0.14 J                    | 0.20 U                    | 0.20 U                     |
| Fluorene                                  | 500b                                 | 0.048 J                                       | 0.19 U                    | 0.20 U                    | 0.20 U                    | 0.20 U                     |
| Indeno(1,2,3-cd)pyrene                    | 5.6                                  | 0.34                                          | 0.10 J                    | 0.045 J                   | 0.20 U                    | 0.20 U                     |
| Naphthalene                               | 500b                                 | 0.18 U                                        | 0.20                      | 0.042 J                   | 0.20 U                    | 0.20 U                     |
| Phenanthrene                              | 500b                                 | 0.74                                          | 0.20                      | 0.069 J                   | 0.20 U                    | 0.20 U                     |
| Pyrene                                    | 500b                                 | 0.97                                          | 0.12 J                    | 0.11 J                    | 0.20 U                    | 0.20 U                     |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-NP-21-02<br>Date: 07/10/07 | ATSS-NP-22-02<br>07/10/07 | ATSS-NP-23-03<br>07/10/07 | ATSS-NP-24-02<br>07/10/07 | ATSS-NP-24-02D<br>07/10/07 |
|-------------------------------------|--------------------------------------|--------------------------------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                            |                           |                           |                           |                            |
| Antimony                            | NA                                   | 1.0 U                                      | 1.0 U                     | 1.1 U                     | 1.1 U                     | 1.0 U                      |
| Arsenic                             | 16f                                  | 9.5                                        | 15.8                      | 12.1                      | 13.2                      | 11.1                       |
| Barium                              | 400                                  | 60.4 J                                     | <b>848 J</b>              | 72.0 J                    | 128 J                     | 121 J                      |
| Beryllium                           | 590                                  | 0.41                                       | 0.64                      | 0.34                      | 0.76                      | 0.88                       |
| Cadmium                             | 9.3                                  | <b>548 J</b>                               | 0.33 J                    | 0.76 J                    | 0.81 J                    | 0.87 J                     |
| Chromium                            | 400h                                 | 99.8                                       | 213                       | 387                       | 21.7                      | 22.9                       |
| Cobalt                              | NA                                   | 11.6 J                                     | 14.1 J                    | 16.3 J                    | 15.4 J                    | 17.6 J                     |
| Copper                              | 270                                  | 47.5                                       | 243                       | 81.0                      | 34.4                      | 35.9                       |
| Lead                                | 1000                                 | <b>1850 J</b>                              | 326 J                     | 96.7 J                    | 18.9 J                    | 19.5 J                     |
| Nickel                              | 310                                  | 63.8 J                                     | 40.2 J                    | 45.9 J                    | 42.6 J                    | 45.8 J                     |
| Selenium                            | 1500                                 | 3.1                                        | 9.0                       | 7.8                       | 3.1                       | 2.9                        |
| Silver                              | 1500                                 | 1.5 U                                      | 1.6 U                     | 1.6 U                     | 1.6 U                     | 1.6 U                      |
| Thallium                            | NA                                   | 2.3                                        | 5.4                       | 5.6                       | 2.8                       | 2.4                        |
| Vanadium                            | NA                                   | 40.8 J                                     | 68.8 J                    | 78.1 J                    | 25.3 J                    | 28.7 J                     |
| Zinc                                | 10000d                               | 226 J                                      | 82.2 J                    | 25.4 J                    | 93.7 J                    | 95.0 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                            |                           |                           |                           |                            |
| Mercury                             | 2.8j                                 | 0.017 J                                    | 0.10                      | 0.017 J                   | 0.019 J                   | 0.022 J                    |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                            |                           |                           |                           |                            |
| Cyanide                             | 27h                                  | 1.0 U                                      | 1.1 U                     | 0.20 J                    | 1.0 U                     | 0.17 J                     |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-SP-01-06<br>07/09/07 | ATSS-SP-02-05<br>07/09/07 | ATSS-SP-04-2.5<br>07/09/07 | ATSS-SP-06-02<br>07/09/07 | ATSS-SP-07-03<br>07/09/07 |
|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------|----------------------------|---------------------------|---------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                               |                           |                            |                           |                           |
| Antimony                            | NA                                   | 12.4 J                                        | 1.2 U                     | 1.2 U                      | 1.2 U                     | 1.1 U                     |
| Arsenic                             | 16f                                  | 11.4 J                                        | 7.4 J                     | 13.3 J                     | <b>25.6 J</b>             | <b>17.5 J</b>             |
| Barium                              | 400                                  | 178 J                                         | 119 J                     | 139 J                      | 91.3 J                    | 148 J                     |
| Beryllium                           | 590                                  | 0.94                                          | 0.56                      | 0.71                       | 0.3 J                     | 0.57                      |
| Cadmium                             | 9.3                                  | 0.67 J                                        | 0.47 J                    | 1.6 J                      | 1.2 J                     | 0.92 J                    |
| Chromium                            | 400h                                 | 16.9 J                                        | 107 J                     | 78.7 J                     | <b>1040 J</b>             | 106 J                     |
| Cobalt                              | NA                                   | 5 J                                           | 8.9 J                     | 21.2 J                     | 53.3 J                    | 13.3 J                    |
| Copper                              | 270                                  | 64.9                                          | 22.9                      | 82.7                       | 182                       | 56                        |
| Lead                                | 1000                                 | 270 J                                         | 60 J                      | 135 J                      | 133 J                     | 56.3 J                    |
| Nickel                              | 310                                  | 17.3 J                                        | 69.2 J                    | 49.2 J                     | <b>2300 J</b>             | 94.5 J                    |
| Selenium                            | 1500                                 | 4.2 J                                         | 3.2 J                     | 6.9 J                      | 13.2 J                    | 2.5 J                     |
| Silver                              | 1500                                 | 2 U                                           | 1.8 U                     | 1.8 U                      | 1.8 U                     | 1.6 U                     |
| Thallium                            | NA                                   | 7.2 J                                         | 2.8 J                     | 4.9 J                      | 6.7 J                     | 3.5 J                     |
| Vanadium                            | NA                                   | 18.7 J                                        | 27.3 J                    | 56.9 J                     | 236 J                     | 21.1 J                    |
| Zinc                                | 10000d                               | 51.1 J                                        | 101 J                     | 453 J                      | 85.7 J                    | 269 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                               |                           |                            |                           |                           |
| Mercury                             | 2.8j                                 | 0.071                                         | 0.043 U                   | 0.037 U                    | 0.034 U                   | 0.036 U                   |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                               |                           |                            |                           |                           |
| Cyanide                             | 27h                                  | 1.2 U                                         | 1.2 U                     | 0.39 J                     | 1.2 U                     | 0.92 U                    |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID: ATSS-SP-08-1.5<br>Date: 07/12/07 | ATSS-SP-09-01<br>07/12/07 | ATSS-SP-10-02<br>07/12/07 | ATSS-SP-11-03<br>07/12/07 | ATSS-SP-12-01<br>07/12/07 |
|-------------------------------------|--------------------------------------|---------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                             |                           |                           |                           |                           |
| Antimony                            | NA                                   | 0.30 R                                      | 0.75 R                    | 3.4 J                     | 0.18 R                    | 2.5 J                     |
| Arsenic                             | 16f                                  | 9.3 J                                       | 8.1 J                     | <b>55.7 J</b>             | 10.2 J                    | <b>38.8 J</b>             |
| Barium                              | 400                                  | 113                                         | 146                       | 135                       | 121                       | 161                       |
| Beryllium                           | 590                                  | 0.50                                        | 0.55                      | 0.55                      | 0.52                      | 1.5                       |
| Cadmium                             | 9.3                                  | 0.56 J                                      | 0.66 J                    | 1.5 J                     | 0.57 J                    | 1.1 J                     |
| Chromium                            | 400h                                 | 111 J                                       | 32.3 J                    | <b>733 J</b>              | 27.3 J                    | <b>600 J</b>              |
| Cobalt                              | NA                                   | 12.9 J                                      | 10.5 J                    | 117 J                     | 10.7 J                    | 32.0 J                    |
| Copper                              | 270                                  | 48.0                                        | 49.2                      | <b>294</b>                | 73.8                      | 71.3                      |
| Lead                                | 1000                                 | 60.6 J                                      | 40.9 J                    | 179 J                     | 60.1 J                    | 210 J                     |
| Nickel                              | 310                                  | 133                                         | 42.9                      | <b>5780</b>               | 35.3                      | <b>371</b>                |
| Selenium                            | 1500                                 | 1.5 U                                       | 1.5 U                     | 5.1 J                     | 1.6 J                     | 1.8 U                     |
| Silver                              | 1500                                 | 1.5 U                                       | 1.5 U                     | 1.5 U                     | 1.4 U                     | 11.4 J                    |
| Thallium                            | NA                                   | 2.5 J                                       | 2.3 J                     | 4.8 J                     | 3.3 J                     | 1.2 U                     |
| Vanadium                            | NA                                   | 22.4 J                                      | 21.3 J                    | 38.2 J                    | 18.7 J                    | 72.4 J                    |
| Zinc                                | 10000d                               | 85.3 J                                      | 163 J                     | 197 J                     | 109 J                     | 187 J                     |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                             |                           |                           |                           |                           |
| Mercury                             | 2.8j                                 | 0.022 J                                     | 0.053                     | 0.083                     | 0.0085 J                  | 0.045                     |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                             |                           |                           |                           |                           |
| Cyanide                             | 27h                                  | 0.38 J                                      | 0.25 J                    | 0.30 J                    | 0.18 J                    | 0.79 J                    |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: ATSS-SP-13-04<br>07/12/07 | ATSS-SP-14-05<br>07/12/07 | ATSS-SP-15-03<br>07/11/07 | ATSS-SP-16-0.6<br>07/12/07 | ATSS-WPA-01-<br>0.6<br>07/11/07 |
|-------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------|---------------------------|----------------------------|---------------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                                               |                           |                           |                            |                                 |
| Antimony                            | NA                                   | 0.11 R                                        | 10.6 J                    | 1.2 R                     | 0.96 R                     | 1.0 R                           |
| Arsenic                             | 16f                                  | 12.3 J                                        | <b>49.8 J</b>             | 13.9 J                    | 14.5 J                     | 8.2 J                           |
| Barium                              | 400                                  | <b>402</b>                                    | 122                       | 78.7                      | 84.2                       | 71.8 J                          |
| Beryllium                           | 590                                  | 0.68                                          | 0.39                      | 0.77                      | 0.23 J                     | 0.54 J                          |
| Cadmium                             | 9.3                                  | 2.0 J                                         | 4.7 J                     | 0.64 J                    | 4.2 J                      | 0.27 J                          |
| Chromium                            | 400h                                 | <b>423 J</b>                                  | <b>5870 J</b>             | 55.6 J                    | <b>468 J</b>               | 26.8                            |
| Cobalt                              | NA                                   | 10.4 J                                        | 92.1 J                    | 8.9 J                     | 42.4 J                     | 7.8 J                           |
| Copper                              | 270                                  | 218                                           | <b>427</b>                | 91.9                      | <b>350</b>                 | 26.1                            |
| Lead                                | 1000                                 | 397 J                                         | 282 J                     | 51.3 J                    | 393 J                      | 80.6 J                          |
| Nickel                              | 310                                  | <b>317</b>                                    | <b>3390</b>               | 51.6                      | <b>332</b>                 | 24.9 J                          |
| Selenium                            | 1500                                 | 2.5 J                                         | 3.3 J                     | 8.6 J                     | 6.2 J                      | 1.5 U                           |
| Silver                              | 1500                                 | 1.5 U                                         | 1.4 U                     | 1.9 U                     | 1.4 U                      | 1.5 R                           |
| Thallium                            | NA                                   | 2.6 J                                         | 4.9 J                     | 3.8 J                     | 3.5 J                      | 0.47 J                          |
| Vanadium                            | NA                                   | 36.4 J                                        | 99.6 J                    | 31.2 J                    | 91.9 J                     | 14.3 J                          |
| Zinc                                | 10000d                               | 695 J                                         | 229 J                     | 157 J                     | 98.0 J                     | 91.2 J                          |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                                               |                           |                           |                            |                                 |
| Mercury                             | 2.8j                                 | 0.10                                          | 0.048                     | 0.040                     | 0.0085 J                   | 0.049                           |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                                               |                           |                           |                            |                                 |
| Cyanide                             | 27h                                  | 0.47 J                                        | 2.2                       | 3.7                       | 3.9                        | 0.35 J                          |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: | ATSS-WPA-02-<br>02<br>07/11/07 | ATSS-WPA-03-<br>0.6<br>07/11/07 |
|-------------------------------------|--------------------------------------|---------------------|--------------------------------|---------------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                     |                                |                                 |
| Antimony                            | NA                                   |                     | 1.1 R                          | 1.2 R                           |
| Arsenic                             | 16f                                  |                     | 3.5 J                          | 12.5 J                          |
| Barium                              | 400                                  |                     | 183 J                          | 104 J                           |
| Beryllium                           | 590                                  |                     | 0.82 J                         | 0.56 J                          |
| Cadmium                             | 9.3                                  |                     | 0.59                           | 0.12 J                          |
| Chromium                            | 400h                                 |                     | 44.4                           | 292                             |
| Cobalt                              | NA                                   |                     | 17.2 J                         | 4.9 J                           |
| Copper                              | 270                                  |                     | 22.8                           | 14.5                            |
| Lead                                | 1000                                 |                     | 9.5 J                          | 20.7 J                          |
| Nickel                              | 310                                  |                     | 86.2 J                         | 45.3 J                          |
| Selenium                            | 1500                                 |                     | 2.1 J                          | 2.6 J                           |
| Silver                              | 1500                                 |                     | 1.6 R                          | 1.8 R                           |
| Thallium                            | NA                                   |                     | 1.1 U                          | 3.5 J                           |
| Vanadium                            | NA                                   |                     | 31.9 J                         | 26.7 J                          |
| Zinc                                | 10000d                               |                     | 53.1 J                         | 41.3 J                          |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                     |                                |                                 |
| Mercury                             | 2.8j                                 |                     | 0.037                          | 0.044                           |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                     |                                |                                 |
| Cyanide                             | 27h                                  |                     | 0.18 J                         | 0.22 J                          |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                                   | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: 07/10/07 | ATSS-WPA-04-<br>02<br>07/10/07 | ATSS-WPA-04-<br>02D<br>07/10/07 |
|-------------------------------------------|--------------------------------------|------------------------------|--------------------------------|---------------------------------|
| <b>Method 8260B Volatiles (mg/kg)</b>     |                                      |                              |                                |                                 |
| 2-Butanone                                | 500b                                 |                              | 0.0060 U                       | 0.0061 U                        |
| Acetone                                   | 500b                                 |                              | 0.0060 U                       | 0.0061 U                        |
| cis-1,2-Dichloroethene                    | 500b                                 |                              | 0.0060 U                       | 0.0061 U                        |
| Methylene chloride                        | 500b                                 |                              | 0.0013 J                       | 0.0061 U                        |
| Naphthalene                               | 500b                                 |                              | 0.0012 U                       | 0.0012 U                        |
| trans-1,2-Dichloroethene                  | 500b                                 |                              | 0.0060 U                       | 0.0061 U                        |
| Trichloroethene                           | 200                                  |                              | 0.0031 J                       | 0.0027 J                        |
| Vinyl chloride                            | 13                                   |                              | 0.0060 U                       | 0.0061 U                        |
| <b>Method 8270C Semivolatiles (mg/kg)</b> |                                      |                              |                                |                                 |
| 1,1'-Biphenyl                             | NA                                   |                              | 0.19 U                         | 0.21 U                          |
| 2,4-Dinitrophenol                         | NA                                   |                              | 0.39 U                         | 0.42 U                          |
| 2-Methylnaphthalene                       | NA                                   |                              | 0.19 U                         | 0.21 U                          |
| 4,6-Dinitro-2-methylphenol                | NA                                   |                              | 0.39 U                         | 0.42 U                          |
| Acenaphthene                              | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Acenaphthylene                            | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Anthracene                                | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Benzo(a)anthracene                        | 5.6                                  |                              | 0.19 U                         | 0.21 U                          |
| Benzo(g,h,i)perylene                      | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Benzo(a)pyrene                            | 1f                                   |                              | 0.19 U                         | 0.21 U                          |
| Benzo(b)fluoranthene                      | 5.6                                  |                              | 0.19 U                         | 0.21 U                          |
| Benzo(k)fluoranthene                      | 56                                   |                              | 0.19 U                         | 0.21 U                          |
| Bis(2-ethylhexyl)phthalate                | NA                                   |                              | 0.070 J                        | 0.064 J                         |
| Carbazole                                 | NA                                   |                              | 0.19 U                         | 0.21 U                          |
| Chrysene                                  | 56                                   |                              | 0.19 U                         | 0.21 U                          |
| Dibenzo(a,h)anthracene                    | 0.56                                 |                              | 0.19 U                         | 0.21 U                          |
| Dibenzofuran                              | 350                                  |                              | 0.19 U                         | 0.21 U                          |
| Fluoranthene                              | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Fluorene                                  | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Indeno(1,2,3-cd)pyrene                    | 5.6                                  |                              | 0.19 U                         | 0.21 U                          |
| Naphthalene                               | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Phenanthrene                              | 500b                                 |                              | 0.19 U                         | 0.21 U                          |
| Pyrene                                    | 500b                                 |                              | 0.19 U                         | 0.21 U                          |



**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: | ATSS-WPA-04-<br>02<br>07/10/07 | ATSS-WPA-04-<br>02D<br>07/10/07 |
|-------------------------------------|--------------------------------------|---------------------|--------------------------------|---------------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                     |                                |                                 |
| Antimony                            | NA                                   |                     | 1.0 U                          | 1.2 U                           |
| Arsenic                             | 16f                                  |                     | 3.2                            | 3.9                             |
| Barium                              | 400                                  |                     | 42.1 J                         | 85.3 J                          |
| Beryllium                           | 590                                  |                     | 0.36                           | 0.52                            |
| Cadmium                             | 9.3                                  |                     | 0.28 J                         | 0.50 J                          |
| Chromium                            | 400h                                 |                     | 11.4                           | 15.3                            |
| Cobalt                              | NA                                   |                     | 4.7 J                          | 6.0 J                           |
| Copper                              | 270                                  |                     | 10.2                           | 10.5                            |
| Lead                                | 1000                                 |                     | 9.1 J                          | 14.8 J                          |
| Nickel                              | 310                                  |                     | 12.7 J                         | 14.0 J                          |
| Selenium                            | 1500                                 |                     | 1.5 U                          | 3.0                             |
| Silver                              | 1500                                 |                     | 1.5 U                          | 1.7 U                           |
| Thallium                            | NA                                   |                     | 1.8                            | 2.1                             |
| Vanadium                            | NA                                   |                     | 16.7 J                         | 26.9 J                          |
| Zinc                                | 10000d                               |                     | 40.5 J                         | 66.1 J                          |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                     |                                |                                 |
| Mercury                             | 2.8j                                 |                     | 0.021 J                        | 0.043                           |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                     |                                |                                 |
| Cyanide                             | 27h                                  |                     | 0.98 U                         | 1.2 U                           |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: | ATSS-WPA-05-<br>02<br>07/10/07 | ATSS-WPA-05-<br>02D<br>07/10/07 |
|-------------------------------------|--------------------------------------|---------------------|--------------------------------|---------------------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                     |                                |                                 |
| Antimony                            | NA                                   |                     | 1.2 U                          | 1.2 R                           |
| Arsenic                             | 16f                                  |                     | 5.1                            | 7.0 J                           |
| Barium                              | 400                                  |                     | 212 J                          | 228 J                           |
| Beryllium                           | 590                                  |                     | 0.79                           | 1.1 J                           |
| Cadmium                             | 9.3                                  |                     | 0.78 J                         | 0.52                            |
| Chromium                            | 400h                                 |                     | 22.5                           | 26.1                            |
| Cobalt                              | NA                                   |                     | 9.3 J                          | 8.7 J                           |
| Copper                              | 270                                  |                     | 21.0                           | 13.9                            |
| Lead                                | 1000                                 |                     | 12.3 J                         | 15.8 J                          |
| Nickel                              | 310                                  |                     | 29.8 J                         | 23.3 J                          |
| Selenium                            | 1500                                 |                     | 3.1                            | 3.5 J                           |
| Silver                              | 1500                                 |                     | 1.8 U                          | 1.8 R                           |
| Thallium                            | NA                                   |                     | 2.6                            | 3.0 J                           |
| Vanadium                            | NA                                   |                     | 34.2 J                         | 36.0 J                          |
| Zinc                                | 10000d                               |                     | 77.0 J                         | 93.7 J                          |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                     |                                |                                 |
| Mercury                             | 2.8j                                 |                     | 0.060                          | 0.081                           |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                     |                                |                                 |
| Cyanide                             | 27h                                  |                     | 1.1 U                          | 0.19 J                          |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                            | Screening<br>Criteria <sup>(1)</sup> | Sample ID: | ATSS-WPR-01- |
|------------------------------------|--------------------------------------|------------|--------------|
|                                    |                                      | Date:      | 07/11/07     |
| Method 8260B Volatiles (mg/kg)     |                                      |            |              |
| 2-Butanone                         | 500b                                 |            | 0.0058 U     |
| Acetone                            | 500b                                 |            | 0.0058 U     |
| cis-1,2-Dichloroethene             | 500b                                 |            | 0.0058 U     |
| Methylene chloride                 | 500b                                 |            | 0.0058 U     |
| Naphthalene                        | 500b                                 |            | 0.0012 U     |
| trans-1,2-Dichloroethene           | 500b                                 |            | 0.0058 U     |
| Trichloroethene                    | 200                                  |            | 0.0058 U     |
| Vinyl chloride                     | 13                                   |            | 0.0058 U     |
| Method 8270C Semivolatiles (mg/kg) |                                      |            |              |
| 1,1'-Biphenyl                      | NA                                   |            | 0.21 U       |
| 2,4-Dinitrophenol                  | NA                                   |            | 0.43 U       |
| 2-Methylnaphthalene                | NA                                   |            | 0.21 U       |
| 4,6-Dinitro-2-methylphenol         | NA                                   |            | 0.43 U       |
| Acenaphthene                       | 500b                                 |            | 0.21 U       |
| Acenaphthylene                     | 500b                                 |            | 0.21 U       |
| Anthracene                         | 500b                                 |            | 0.21 U       |
| Benzo(a)anthracene                 | 5.6                                  |            | 0.21 U       |
| Benzo(g,h,i)perylene               | 500b                                 |            | 0.21 U       |
| Benzo(a)pyrene                     | 1f                                   |            | 0.21 U       |
| Benzo(b)fluoranthene               | 5.6                                  |            | 0.21 U       |
| Benzo(k)fluoranthene               | 56                                   |            | 0.21 U       |
| Bis(2-ethylhexyl)phthalate         | NA                                   |            | 0.072 J      |
| Carbazole                          | NA                                   |            | 0.21 U       |
| Chrysene                           | 56                                   |            | 0.21 U       |
| Dibenzo(a,h)anthracene             | 0.56                                 |            | 0.21 U       |
| Dibenzofuran                       | 350                                  |            | 0.21 U       |
| Fluoranthene                       | 500b                                 |            | 0.21 U       |
| Fluorene                           | 500b                                 |            | 0.21 U       |
| Indeno(1,2,3-cd)pyrene             | 5.6                                  |            | 0.21 U       |
| Naphthalene                        | 500b                                 |            | 0.21 U       |
| Phenanthrene                       | 500b                                 |            | 0.21 U       |
| Pyrene                             | 500b                                 |            | 0.21 U       |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                      |  | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: | ATSS-WPR-01-<br>01<br>07/11/07 |
|------------------------------|--|--------------------------------------|---------------------|--------------------------------|
| Method 6010B Metals (mg/kg)  |  |                                      |                     |                                |
| Antimony                     |  | NA                                   |                     | 1.1 R                          |
| Arsenic                      |  | 16f                                  |                     | 8.0 J                          |
| Barium                       |  | 400                                  |                     | 124 J                          |
| Beryllium                    |  | 590                                  |                     | 0.33 J                         |
| Cadmium                      |  | 9.3                                  |                     | 0.31 J                         |
| Chromium                     |  | 400h                                 |                     | 422                            |
| Cobalt                       |  | NA                                   |                     | 7.4 J                          |
| Copper                       |  | 270                                  |                     | 22.7                           |
| Lead                         |  | 1000                                 |                     | 82.2 J                         |
| Nickel                       |  | 310                                  |                     | 77.8 J                         |
| Selenium                     |  | 1500                                 |                     | 0.97 J                         |
| Silver                       |  | 1500                                 |                     | 1.6 R                          |
| Thallium                     |  | NA                                   |                     | 3.8 J                          |
| Vanadium                     |  | NA                                   |                     | 29.0 J                         |
| Zinc                         |  | 10000d                               |                     | 36.8 J                         |
| Method 7471A Mercury (mg/kg) |  |                                      |                     |                                |
| Mercury                      |  | 2.8j                                 |                     | 0.010 J                        |
| Method 9012B Cyanide (mg/kg) |  |                                      |                     |                                |
| Cyanide                      |  | 27h                                  |                     | 0.21 J                         |

**Table 2-1**  
**Summary of Positive Analytical Results for Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: |
|---------|--------------------------------------|---------------------|
|---------|--------------------------------------|---------------------|

Key:

J = Estimated value.

U = Not detected at the reported value.

mg/Kg = Milligrams per kilogram.

µg/Kg = Micrograms per kilogram.

Note:  
 Shaded cells exceed the screening value.

(1) New York State Department of Environmental Conservation, Subpart 375-6: Remedial Program Soil Cleanup Objectives for Restricted Commercial Use

Table 2-2

Summary of Positive Analytical Results for Water Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY

## Al Tech Steel Site

| Analyte                             | Screening Criteria <sup>(1)</sup> | ATSS-WS-01<br>07/12/07 | ATSS-WS-02<br>07/12/07 | ATSS-WS-03<br>07/12/07 | ATSS-WS-04<br>07/12/07 |
|-------------------------------------|-----------------------------------|------------------------|------------------------|------------------------|------------------------|
| <b>SW8260B Volatiles (µg/L)</b>     |                                   |                        |                        |                        |                        |
| Acetone                             | 50g                               | 5.0 U                  | 5.0 U                  | <b>83</b>              | 5.0 U                  |
| cis-1,2-Dichloroethene              | 5                                 | 0.50 U                 | <b>7.3</b>             | 0.50 U                 | 0.50 U                 |
| trans-1,2-Dichloroethene            | 5                                 | 0.50 U                 | 0.29 J                 | 0.50 U                 | 0.50 U                 |
| Trichloroethene                     | 5                                 | 0.66                   | <b>6.1</b>             | 0.50 U                 | 0.50 U                 |
| <b>SW8270C Semivolatiles (µg/L)</b> |                                   |                        |                        |                        |                        |
| 1,1'-Biphenyl                       | NA                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| 2-Methylnaphthalene                 | NA                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| 4-Nitrophenol                       | NA                                | 10 U                   | 10 U                   | 10 U                   | 10 U                   |
| Acenaphthene                        | 20g                               | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Acenaphthylene                      | NA                                | 5.0 U                  | 5.0 U                  | 0.79 J                 | 5.0 U                  |
| Acetophenone                        | NA                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Anthracene                          | 50g                               | 5.0 U                  | 5.0 U                  | 1.4 J                  | 5.0 U                  |
| Benzaldehyde                        | NA                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Benzo(a)anthracene                  | 0.002g                            | 5.0 U                  | 5.0 U                  | <b>1.4 J</b>           | 5.0 U                  |
| Benzo(a)pyrene                      | NA                                | 5.0 U                  | 5.0 U                  | 2.2 J                  | 5.0 U                  |
| Benzo(b)fluoranthene                | 0.002g                            | 5.0 U                  | <b>0.56 J</b>          | <b>6.5</b>             | 5.0 U                  |
| Benzo(g,h,i)perylene                | NA                                | 5.0 U                  | 5.0 U                  | 2.4 J                  | 5.0 U                  |
| Benzo(k)fluoranthene                | 0.002g                            | 5.0 U                  | 5.0 U                  | <b>2.6 J</b>           | 5.0 U                  |
| Bis(2-ethylhexyl)phthalate          | 5                                 | 0.79 J                 | 5.0 U                  | 0.74 J                 | 0.59 J                 |
| Carbazole                           | NA                                | 5.0 U                  | 5.0 U                  | 1.1 J                  | 5.0 U                  |
| Chrysene                            | 0.002g                            | 5.0 U                  | 5.0 U                  | <b>3.0 J</b>           | 5.0 U                  |
| Dibenzo(a,h)anthracene              | NA                                | 5.0 U                  | 5.0 U                  | 0.56 J                 | 5.0 U                  |
| Dibenzofuran                        | NA                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Di-n-butylphthalate                 | 50                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Fluoranthene                        | 50                                | 5.0 U                  | 0.71 J                 | 1.7 J                  | 5.0 U                  |

Table 2-2

Summary of Positive Analytical Results for Water Samples, July 2007, AI Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY

## AI Tech Steel Site

| Analyte                      | Screening Criteria <sup>(1)</sup> | ATSS-WS-01<br>07/12/07 | ATSS-WS-02<br>07/12/07 | ATSS-WS-03<br>07/12/07 | ATSS-WS-04<br>07/12/07 |
|------------------------------|-----------------------------------|------------------------|------------------------|------------------------|------------------------|
| Indeno(1,2,3-cd)pyrene       | 0.002g                            | 5.0 U                  | 5.0 U                  | 2.4 J                  | 5.0 U                  |
| Naphthalene                  | 10g                               | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Phenanthrene                 | 50g                               | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Phenol                       | 1s                                | 5.0 U                  | 5.0 U                  | 5.0 U                  | 5.0 U                  |
| Pyrene                       | 50g                               | 5.0 U                  | 5.0 U                  | 2.0 J                  | 5.0 U                  |
| <b>SW6010B Metals (µg/L)</b> |                                   |                        |                        |                        |                        |
| Arsenic                      | 25                                | 20 U                   | 20 U                   | 144                    | 2.3 J                  |
| Barium                       | 1000                              | 17.2 J                 | 58.7 J                 | 37.0 J                 | 98.4 J                 |
| Cadmium                      | 5                                 | 5.0 U                  | 2.9 J                  | 5.0 U                  | 5.0 U                  |
| Chromium                     | 50                                | 5.0 J                  | 16.8 J                 | 24.8                   | 20 U                   |
| Cobalt                       | NA                                | 50 U                   | 6.4 J                  | 50 U                   | 50 U                   |
| Copper                       | 200                               | 30 U                   | 130                    | 9.0 J                  | 30 U                   |
| Lead                         | 25                                | 10 U                   | 16.4                   | 34.9                   | 10 U                   |
| Nickel                       | 100                               | 50 U                   | 63.4                   | 21.1 J                 | 50 U                   |
| Selenium                     | 10                                | 5.0 J                  | 14.2 J                 | 14.2 J                 | 9.0 J                  |
| Thallium                     | 0.5                               | 20 U                   | 20 U                   | 3.3 J                  | 20 U                   |
| Vanadium                     | NA                                | 14.2 J                 | 1.0 J                  | 3.0 J                  | 50 U                   |
| Zinc                         | 2000g                             | 50 U                   | 86.1                   | 55.4                   | 119                    |

**Table 2-2**

**Summary of Positive Analytical Results for Water Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

**Al Tech Steel Site**

| Analyte                             | Screening Criteria <sup>(1)</sup> | ATSS-WS-05<br>07/12/07 | TRIP BLANK<br>07/12/07 |
|-------------------------------------|-----------------------------------|------------------------|------------------------|
| <b>SW8260B Volatiles (µg/L)</b>     |                                   |                        |                        |
| Acetone                             | 50g                               | 5.0 U                  | 5.0 U                  |
| cis-1,2-Dichloroethene              | 5                                 | 0.50 U                 | 0.50 U                 |
| trans-1,2-Dichloroethene            | 5                                 | 0.50 U                 | 0.50 U                 |
| Trichloroethene                     | 5                                 | 0.50 U                 | 0.50 U                 |
| <b>SW8270C Semivolatiles (µg/L)</b> |                                   |                        |                        |
| 1,1'-Biphenyl                       | NA                                | 12                     | --                     |
| 2-Methylnaphthalene                 | NA                                | 3.1 J                  | --                     |
| 4-Nitrophenol                       | NA                                | 4.4 J                  | --                     |
| Acenaphthene                        | 20g                               | 0.50 J                 | --                     |
| Acenaphthylene                      | NA                                | 1.5 J                  | --                     |
| Acetophenone                        | NA                                | 16                     | --                     |
| Anthracene                          | 50g                               | 5.3                    | --                     |
| Benzaldehyde                        | NA                                | 38                     | --                     |
| Benzo(a)anthracene                  | 0.002g                            | <b>1.6 J</b>           | --                     |
| Benzo(a)pyrene                      | NA                                | 5.0 U                  | --                     |
| Benzo(b)fluoranthene                | 0.002g                            | <b>12</b>              | --                     |
| Benzo(g,h,i)perylene                | NA                                | 5.0 U                  | --                     |
| Benzo(k)fluoranthene                | 0.002g                            | <b>2.0 J</b>           | --                     |
| Bis(2-ethylhexyl)phthalate          | 5                                 | 2.2 J                  | --                     |
| Carbazole                           | NA                                | 5.0 U                  | --                     |
| Chrysene                            | 0.002g                            | <b>21</b>              | --                     |
| Dibenzo(a,h)anthracene              | NA                                | 5.0 U                  | --                     |
| Dibenzofuran                        | NA                                | 5.8                    | --                     |
| Di-n-butylphthalate                 | 50                                | 3.6 J                  | --                     |
| Fluoranthene                        | 50                                | <b>52</b>              | --                     |



**Table 2-2**

**Summary of Positive Analytical Results for Water Samples, July 2007, AI Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

**AI Tech Steel Site**

| Analyte                      | Screening Criteria <sup>(1)</sup> | ATSS-WS-05<br>07/12/07 | TRIP BLANK<br>07/12/07 |
|------------------------------|-----------------------------------|------------------------|------------------------|
| Indeno(1,2,3-cd)pyrene       | 0.002g                            | <b>0.71 J</b>          | --                     |
| Naphthalene                  | 10g                               | 3.4 J                  | --                     |
| Phenanthrene                 | 50g                               | <b>75</b>              | --                     |
| Phenol                       | 1s                                | <b>4.6</b>             | --                     |
| Pyrene                       | 50g                               | 8.3                    | --                     |
| <b>SW6010B Metals (µg/L)</b> |                                   |                        |                        |
| Arsenic                      | 25                                | <b>92.3</b>            | --                     |
| Barium                       | 1000                              | 717                    | --                     |
| Cadmium                      | 5                                 | 3.9 J                  | --                     |
| Chromium                     | 50                                | <b>9040</b>            | --                     |
| Cobalt                       | NA                                | 38.3 J                 | --                     |
| Copper                       | 200                               | <b>542</b>             | --                     |
| Lead                         | 25                                | <b>350</b>             | --                     |
| Nickel                       | 100                               | <b>2330</b>            | --                     |
| Selenium                     | 10                                | <b>16.5 J</b>          | --                     |
| Thallium                     | 0.5                               | <b>6.7 J</b>           | --                     |
| Vanadium                     | NA                                | 119                    | --                     |
| Zinc                         | 2000g                             | 578                    | --                     |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY  
Al Tech Steel**

| Analyte                    | Screening<br>Criteria <sup>(1)</sup> | ATSS-BM-<br>NW-EPR<br>07/12/07 | ATSS-BM-SW-<br>EPA<br>07/12/07 | ATSS-EPA-01-<br>03<br>07/10/07 | ATSS-EPA-04-<br>09<br>07/10/07 | ATSS-EPA-05-<br>09<br>07/10/07 | ATSS-EPR-02-<br>1.5<br>07/10/07 |
|----------------------------|--------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                      |                                |                                |                                |                                |                                |                                 |
| Arsenic                    | 5000                                 | 7.6 J                          | 130                            | 8.3 J                          | 5.1 J                          | 7.0 J                          | 10.7 J                          |
| Barium                     | 100000                               | 15.4 J                         | 116 J                          | 532                            | 550                            | 689                            | 146 J                           |
| Cadmium                    | 1000                                 | 7.0                            | 28.1                           | <b>1390</b>                    | 3.1 J                          | 11.3                           | 10.6                            |
| Chromium                   | 5000                                 | 59.1                           | 82.1                           | 48.4                           | 20 U                           | 14.5 J                         | 13.3 J                          |
| Lead                       | 5000                                 | 4.3 J                          | 26.7                           | 1680                           | 101                            | 22.5                           | 40.6                            |
| Selenium                   | 1000                                 | 30 U                           | 30 U                           | 30 U                           | 30 U                           | 30 U                           | 30 U                            |
| Silver                     | 5000                                 | 92.2                           | 76.9                           | 20.9 J                         | 35.3                           | 47.3                           | 40.2                            |
| <b>SW1311/7470A (µg/L)</b> |                                      |                                |                                |                                |                                |                                |                                 |
| Mercury                    | 200                                  | 0.20 U                         | 0.57                           | 0.20 U                         | 0.20 U                         | 0.20 U                         | 0.20 U                          |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY  
Al Tech Steel**

| Analyte             |        | Screening Criteria <sup>(1)</sup> | ATSS-GS-01-05D            |                 |                           |                           |                           |
|---------------------|--------|-----------------------------------|---------------------------|-----------------|---------------------------|---------------------------|---------------------------|
|                     |        |                                   | ATSS-GS-01-05<br>07/11/07 | 05D<br>07/11/07 | ATSS-GS-02-05<br>07/11/07 | ATSS-GS-03-07<br>07/11/07 | ATSS-GS-04-01<br>07/11/07 |
| SW1311/6010B (µg/L) |        |                                   |                           |                 |                           |                           |                           |
| Arsenic             | 5000   | 46.7                              | 10.5 J                    | 5.4 J           | 20 U                      | 5.4 J                     | 7.0 J                     |
| Barium              | 100000 | 795                               | 508                       | 754             | 994                       | 1380                      | 975                       |
| Cadmium             | 1000   | 5.3                               | 1.9 J                     | 2.0 J           | 6.0                       | 5.1                       | 7.5                       |
| Chromium            | 5000   | 20 U                              | 20 U                      | 20 U            | 57.4                      | 20 U                      | 5.4 J                     |
| Lead                | 5000   | 131000 J                          | 492 J                     | 94.9 J          | 413 J                     | 399 J                     | 114 J                     |
| Selenium            | 1000   | 30 U                              | 30 U                      | 30 U            | 30 U                      | 30 U                      | 30 U                      |
| Silver              | 5000   | 5.1 J                             | 4.4 J                     | 28.4 J          | 30 U                      | 34.8                      | 40.9                      |
| SW1311/7470A (µg/L) |        |                                   |                           |                 |                           |                           |                           |
| Mercury             | 200    | 0.20 U                            | 0.20 U                    | 0.20 U          | 0.20 U                    | 0.20 U                    | 0.20 U                    |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY  
Al Tech Steel**

| Analyte                    | Screening<br>Criteria <sup>(1)</sup> | ATSS-GS-06-<br>3.5<br>07/11/07 | ATSS-GS-07-<br>3.5<br>07/11/07 | ATSS-GS-08-<br>4.5<br>07/11/07 | ATSS-GS-09-03<br>07/11/07 | ATSS-GS-11-04<br>07/11/07 | ATSS-GS-12-<br>4.5<br>07/11/07 |
|----------------------------|--------------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------|---------------------------|--------------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                      |                                |                                |                                |                           |                           |                                |
| Arsenic                    | 5000                                 | 20 U                           | 20 U                           | 6.3 J                          | 20 U                      | 20 U                      | 4.8 J                          |
| Barium                     | 100000                               | 1040                           | 1060                           | 1820                           | 242                       | 277                       | 957                            |
| Cadmium                    | 1000                                 | 7.3                            | 16.0                           | 143                            | 16.9                      | 5.0 U                     | 35.8                           |
| Chromium                   | 5000                                 | 20 U                           | 21.0                           | 6.3 J                          | 20 U                      | 20 U                      | 6.3 J                          |
| Lead                       | 5000                                 | <b>480000 J</b>                | 212 J                          | <b>110000 J</b>                | 40.8 J                    | 55.3 J                    | 1950 J                         |
| Selenium                   | 1000                                 | 30 U                           | 30 U                           | 30 U                           | 117                       | 30 U                      | 30 U                           |
| Silver                     | 5000                                 | 17.1 J                         | 34.2                           | 29.7 J                         | 30 U                      | 4.9 J                     | 33.2                           |
| <b>SW1311/7470A (µg/L)</b> |                                      |                                |                                |                                |                           |                           |                                |
| Mercury                    | 200                                  | 0.20 U                         | 0.20 U                         | 0.20 U                         | 0.078 J                   | 0.20 U                    | 0.20 U                         |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY  
Al Tech Steel**

| Analyte             |        | Screening Criteria <sup>(1)</sup> | ATSS-GS-12-4.5D |                           |                           |                           |                           |
|---------------------|--------|-----------------------------------|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                     |        |                                   | 07/11/07        | ATSS-ID-01-04<br>07/11/07 | ATSS-ID-02-04<br>07/11/07 | ATSS-ID-03-04<br>07/11/07 | ATSS-ID-04-03<br>07/11/07 |
| SW1311/6010B (µg/L) |        |                                   |                 |                           |                           |                           |                           |
| Arsenic             | 5000   | 5.7 J                             | 20 U            | 5.9 J                     | 5.2 J                     | 5.9 J                     | 4.2 J                     |
| Barium              | 100000 | 1140                              | 141 J           | 580                       | 457                       | 985                       | 204                       |
| Cadmium             | 1000   | 65.5                              | 5.0 U           | 1.8 J                     | 1.9 J                     | 1.6 J                     | 5.0 U                     |
| Chromium            | 5000   | 20 U                              | 20 U            | 96.1                      | 41.0                      | 12.9 J                    | 6.7 J                     |
| Lead                | 5000   | 31400 J                           | 110 J           | 218                       | 121000                    | 154                       | 10 U                      |
| Selenium            | 1000   | 30 U                              | 30 U            | 30 U                      | 30 U                      | 30 U                      | 30 U                      |
| Silver              | 5000   | 42.4                              | 3.1 J           | 5.3 J                     | 8.3 J                     | 73.8                      | 2.5 J                     |
| SW1311/7470A (µg/L) |        |                                   |                 |                           |                           |                           |                           |
| Mercury             | 200    | 0.20 U                            | 0.20 U          | 0.20 U                    | 0.20 U                    | 0.20 U                    | 0.20 U                    |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**  
**Al Tech Steel**

| Analyte                    | Screening<br>Criteria <sup>(1)</sup> | ATSS-ID-06-04<br>07/11/07 | ATSS-ID-07-3.5<br>07/11/07 | ATSS-ID-07-3.5D<br>07/11/07 | ATSS-ID-10-0.6<br>07/11/07 | ATSS-ID-10-4.5<br>07/11/07 | ATSS-ID-13-02<br>07/09/07 |
|----------------------------|--------------------------------------|---------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|---------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                      |                           |                            |                             |                            |                            |                           |
| Arsenic                    | 5000                                 | 7.1 J                     | 8.7 J                      | 4.7 J                       | 20 U                       | 9.9 J                      | 13.6 J                    |
| Barium                     | 100000                               | 391                       | 1390                       | 1130                        | 138 J                      | 49600                      | 85.7 J                    |
| Cadmium                    | 1000                                 | 4.9 J                     | 5.0 U                      | 5.0 U                       | 0.14 J                     | 5.0 U                      | 5.0 U                     |
| Chromium                   | 5000                                 | 223                       | 20 U                       | 20 U                        | 5.9 J                      | 20 U                       | 96.2                      |
| Lead                       | 5000                                 | 34.1                      | 10 U                       | 160                         | <b>7140</b>                | <b>42700</b>               | 37.0                      |
| Selenium                   | 1000                                 | 30 U                      | 30 U                       | 30 U                        | 30 U                       | 30 U                       | 30 U                      |
| Silver                     | 5000                                 | 29.4 J                    | 61.3                       | 54.0                        | 5.0 J                      | 4.8 J                      | 30.6                      |
| <b>SW1311/7470A (µg/L)</b> |                                      |                           |                            |                             |                            |                            |                           |
| Mercury                    | 200                                  | 0.20 U                    | 0.20 U                     | 0.20 U                      | 0.20 U                     | 0.17 J                     | 0.20 U                    |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**  
**Al Tech Steel**

| Analyte                    | Screening Criteria <sup>(1)</sup> | ATSS-ID-14-2.5<br>07/11/07 | ATSS-ID-15-03<br>07/11/07 | ATSS-ID-16-0.6<br>07/11/07 | ATSS-NP-02-1.5<br>07/09/07 | ATSS-NP-03-04<br>07/09/07 | ATSS-NP-04-01<br>07/09/07 |
|----------------------------|-----------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                   |                            |                           |                            |                            |                           |                           |
| Arsenic                    | 5000                              | 2.7 J                      | 13.5 J                    | 4.3 J                      | 3.7 J                      | 5.7 J                     | 1.6 J                     |
| Barium                     | 100000                            | 1040                       | 271                       | 573                        | 1830                       | 2520                      | 12700                     |
| Cadmium                    | 1000                              | 2.2 J                      | 5.0 U                     | 1.3 J                      | 10.5 J                     | 14.0 J                    | 4.8 J                     |
| Chromium                   | 5000                              | 31.3                       | 20 U                      | 7.9 J                      | 20 U                       | 13.8 J                    | 24.4                      |
| Lead                       | 5000                              | 291                        | 10 U                      | <b>6070</b>                | <b>381000</b>              | <b>77900</b>              | <b>16100</b>              |
| Selenium                   | 1000                              | 30 U                       | 30 U                      | 30 U                       | 30 U                       | 30 U                      | 30 U                      |
| Silver                     | 5000                              | 33.4                       | 60.7                      | 34.2                       | 10.1 J                     | 18.9 J                    | 30 U                      |
| <b>SW1311/7470A (µg/L)</b> |                                   |                            |                           |                            |                            |                           |                           |
| Mercury                    | 200                               | 0.20 U                     | 0.20 U                    | 0.20 U                     | 0.20 U                     | 0.20 U                    | 0.20 U                    |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**  
**Al Tech Steel**

| Analyte                    | Screening Criteria <sup>(1)</sup> | ATSS-NP-05-1.5<br>07/09/07 | ATSS-NP-05-1.5-D<br>07/09/07 | ATSS-NP-06-1.5<br>07/09/07 | ATSS-NP-07-03<br>07/09/07 | ATSS-NP-08-1.5<br>07/09/07 | ATSS-NP-09-1.5<br>07/09/07 |
|----------------------------|-----------------------------------|----------------------------|------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                   |                            |                              |                            |                           |                            |                            |
| Arsenic                    | 5000                              | 1.7 J                      | 3.7 J                        | 4.6 J                      | 4.8 B                     | 11.7 J                     | 1.8 J                      |
| Barium                     | 100000                            | 1400                       | 1780                         | 6910                       | 769                       | 1830                       | 512                        |
| Cadmium                    | 1000                              | 4.5 J                      | 2.7 J                        | 4.5 J                      | 0.91 J                    | 1.4 J                      | 5.0 U                      |
| Chromium                   | 5000                              | 4.5 J                      | 15.9 J                       | 344                        | 106                       | 212                        | 4.6 J                      |
| Lead                       | 5000                              | 763                        | 609                          | 1310                       | 774                       | 99.5                       | 10.4                       |
| Selenium                   | 1000                              | 30 U                       | 30 U                         | 30 U                       | 30 U                      | 30 U                       | 30 U                       |
| Silver                     | 5000                              | 61.9                       | 21.9 J                       | 14.0 J                     | 30 U                      | 49.9                       | 13.4 J                     |
| <b>SW1311/7470A (µg/L)</b> |                                   |                            |                              |                            |                           |                            |                            |
| Mercury                    | 200                               | 0.20 U                     | 0.20 U                       | 0.20 U                     | 0.20 U                    | 0.20 U                     | 0.20 U                     |



**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**  
**Al Tech Steel**

| Analyte                    | Screening<br>Criteria <sup>(1)</sup> | ATSS-NP-11-<br>01<br>07/11/07 | ATSS-NP-12-<br>10.5<br>07/11/07 | ATSS-NP-13-<br>05D<br>07/11/07 | ATSS-NP-14-<br>02<br>07/09/07 | ATSS-NP-15-<br>02<br>07/09/07 | ATSS-NP-16-<br>06<br>07/10/07 |
|----------------------------|--------------------------------------|-------------------------------|---------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                      |                               |                                 |                                |                               |                               |                               |
| Arsenic                    | 5000                                 | 20 U                          | 5.9 J                           | 1.7 J                          | 5.9 J                         | 3.2 J                         | 8.6 J                         |
| Barium                     | 100000                               | 1130                          | 2830                            | 696                            | 993                           | 1070                          | 818                           |
| Cadmium                    | 1000                                 | 9.2                           | 1.1 J                           | 2.7 J                          | 4.1 J                         | 1.2 J                         | 2.7 J                         |
| Chromium                   | 5000                                 | 5.1 J                         | 56.5                            | 20 U                           | 20 U                          | 20 U                          | 4.2 J                         |
| Lead                       | 5000                                 | 223                           | 141                             | 64.7                           | 252                           | 101                           | 56.1                          |
| Selenium                   | 1000                                 | 30 U                          | 30 U                            | 30 U                           | 30 U                          | 30 U                          | 30 U                          |
| Silver                     | 5000                                 | 40.4                          | 25.4 J                          | 45.9                           | 40.6                          | 48.2                          | 54.1                          |
| <b>SW1311/7470A (µg/L)</b> |                                      |                               |                                 |                                |                               |                               |                               |
| Mercury                    | 200                                  | 0.20 U                        | 0.20 U                          | 0.20 U                         | 0.20 U                        | 0.20 U                        | 0.20 U                        |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**  
**Al Tech Steel**

| Analyte                    | Screening<br>Criteria <sup>(1)</sup> | ATSS-NP-18-<br>1.5<br>07/10/07 | ATSS-NP-19-<br>1.5<br>07/10/07 | ATSS-NP-21-<br>02<br>07/10/07 | ATSS-NP-22-<br>02<br>07/10/07 | ATSS-NP-23-<br>03<br>07/10/07 | ATSS-SP-01-<br>06<br>07/09/07 |
|----------------------------|--------------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                      |                                |                                |                               |                               |                               |                               |
| Arsenic                    | 5000                                 | 20 U                           | 7.7 J                          | 6.5 J                         | 2.2 J                         | 5.0 J                         | 27.3                          |
| Barium                     | 100000                               | 1130                           | 1800                           | 685                           | 1080                          | 293                           | 368                           |
| Cadmium                    | 1000                                 | 2.2 J                          | 2.7 J                          | 856                           | 0.42 J                        | 2.7 J                         | 0.65 J                        |
| Chromium                   | 5000                                 | 77.9                           | 236                            | 20 U                          | 4.9 J                         | 5.5 J                         | 20 U                          |
| Lead                       | 5000                                 | 200                            | 1460                           | 825                           | 31.5                          | 15.8                          | <b>18300</b>                  |
| Selenium                   | 1000                                 | 30 U                           | 30 U                           | 30 U                          | 30 U                          | 30 U                          | 30 U                          |
| Silver                     | 5000                                 | 6.2 J                          | 6.6 J                          | 46.9                          | 2.3 J                         | 4.4 J                         | 30 U                          |
| <b>SW1311/7470A (µg/L)</b> |                                      |                                |                                |                               |                               |                               |                               |
| Mercury                    | 200                                  | 0.20 U                         | 0.20 U                         | 0.20 U                        | 0.20 U                        | 0.20 U                        | 0.20 U                        |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**  
**Al Tech Steel**

| Analyte                    | Screening<br>Criteria <sup>(1)</sup> | ATSS-SP-02-<br>05<br>07/09/07 | ATSS-SP-04-<br>2.5<br>07/09/07 | ATSS-SP-06-<br>02<br>07/09/07 | ATSS-SP-07-<br>03<br>07/09/07 | ATSS-SP-08-<br>1.5<br>07/12/07 | ATSS-SP-10-<br>02<br>07/12/07 |
|----------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>SW1311/6010B (µg/L)</b> |                                      |                               |                                |                               |                               |                                |                               |
| Arsenic                    | 5000                                 | 14.4 J                        | 2.4 J                          | 2.2 J                         | 5.6 J                         | 4.6 B                          | 5.7 J                         |
| Barium                     | 100000                               | 511                           | 364                            | 327                           | 2930                          | 1030                           | 664                           |
| Cadmium                    | 1000                                 | 0.98 J                        | 3.9 J                          | 6.0 J                         | 8.4 J                         | 2.4 J                          | 2.7 J                         |
| Chromium                   | 5000                                 | 20 U                          | 20 U                           | 20 U                          | 20 U                          | 20 U                           | 6.1 J                         |
| Lead                       | 5000                                 | 191                           | 135                            | 13.6                          | 1160                          | 10 U                           | 15.4                          |
| Selenium                   | 1000                                 | 30 U                          | 30 U                           | 30 U                          | 30 U                          | 30 U                           | 30 U                          |
| Silver                     | 5000                                 | 30 U                          | 30 U                           | 30 U                          | 26.1 J                        | 50.1                           | 10.5 J                        |
| <b>SW1311/7470A (µg/L)</b> |                                      |                               |                                |                               |                               |                                |                               |
| Mercury                    | 200                                  | 0.20 U                        | 0.097 J                        | 0.20 U                        | 0.20 U                        | 0.20 U                         | 0.070 J                       |

**Table 2-3**

**Summary of Positive I Results for TCLP Analysis of Soil Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY  
Al Tech Steel**

| Analyte             |        | Screening Criteria <sup>(1)</sup> | ATSS-SP-12-01 | ATSS-SP-13-04 | ATSS-SP-14-05 | ATSS-SP-16-0.6 | ATSS-WPA-03-0.6 | ATSS-WPR-01-01 |
|---------------------|--------|-----------------------------------|---------------|---------------|---------------|----------------|-----------------|----------------|
|                     |        |                                   | 07/12/07      | 07/12/07      | 07/12/07      | 07/12/07       | 07/10/07        | 07/10/07       |
| SW1311/6010B (µg/L) |        |                                   |               |               |               |                |                 |                |
| Arsenic             | 5000   | 10.9 J                            | 4.9 J         | 4.0 J         | 1.6 J         | 6.2 J          | 11.9 J          |                |
| Barium              | 100000 | 281                               | 2600          | 729           | 136 J         | 338            | 92.4 J          |                |
| Cadmium             | 1000   | 1.9 J                             | 21.1          | 38.3          | 19.6          | 5.0 U          | 5.0 U           |                |
| Chromium            | 5000   | 7.6 J                             | 70.7          | 9.6 J         | 20 U          | 32.2           | 671             |                |
| Lead                | 5000   | 4.4 J                             | 138           | 13.5          | 809           | 884 J          | 92.8 J          |                |
| Selenium            | 1000   | 30 U                              | 30 U          | 30 U          | 30 U          | 30 U           | 30 U            |                |
| Silver              | 5000   | 20.9 J                            | 41.5          | 31.2          | 4.0 J         | 28.2 J         | 28.3 J          |                |
| SW1311/7470A (µg/L) |        |                                   |               |               |               |                |                 |                |
| Mercury             | 200    | 0.20 U                            | 0.20 U        | 0.20 U        | 0.20 U        | 0.20 U         | 0.20 U          |                |

**Table 2-4**  
**Summary of Positive Analytical Results for Brick and Mortar Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte                             | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: | BM-NW-EPR<br>07/12/07 | BM-SW-EPA<br>07/12/07 |
|-------------------------------------|--------------------------------------|---------------------|-----------------------|-----------------------|
| <b>Method 6010B Metals (mg/kg)</b>  |                                      |                     |                       |                       |
| Antimony                            | NA                                   |                     | 3.0 J                 | 1.6 R                 |
| Arsenic                             | 16f                                  |                     | 14.0 J                | 3.2 J                 |
| Barium                              | 400                                  |                     | 54.6                  | 31.9                  |
| Beryllium                           | 590                                  |                     | 0.39                  | 0.22 J                |
| Cadmium                             | 9.3                                  |                     | 0.64 J                | 1.2 J                 |
| Chromium                            | 400h                                 |                     | <b>832 J</b>          | 170 J                 |
| Cobalt                              | NA                                   |                     | 14.4 J                | 4.5 J                 |
| Copper                              | 270                                  |                     | 203                   | 80.0                  |
| Lead                                | 1000                                 |                     | 163 J                 | 65.9 J                |
| Nickel                              | 310                                  |                     | <b>486</b>            | 154                   |
| Selenium                            | 1500                                 |                     | 2.0 U                 | 1.4 U                 |
| Silver                              | 1500                                 |                     | 6.2 J                 | 3.5 J                 |
| Thallium                            | NA                                   |                     | 1.5 J                 | 1.1 J                 |
| Vanadium                            | NA                                   |                     | 17.7 J                | 6.0 J                 |
| Zinc                                | 10000d                               |                     | 140 J                 | 158 J                 |
| <b>Method 7471A Mercury (mg/kg)</b> |                                      |                     |                       |                       |
| Mercury                             | 2.8j                                 |                     | 0.048 U               | 1.6                   |
| <b>Method 9012B Cyanide (mg/kg)</b> |                                      |                     |                       |                       |
| Cyanide                             | 27h                                  |                     | 6.8                   | 4.1                   |

**Table 2-4**  
**Summary of Positive Analytical Results for Brick and Mortar Samples, July 2007, Al Tech Steel Site, NYSDEC Site No. 9-07-022, Dunkirk, NY**

| Analyte | Screening<br>Criteria <sup>(1)</sup> | Sample ID:<br>Date: |
|---------|--------------------------------------|---------------------|
|---------|--------------------------------------|---------------------|

Key:  
 J = Estimated value.  
 U = Not detected at the reported value.  
 mg/Kg = Milligrams per kilogram.  
 µg/Kg = Micrograms per kilogram.

Note:  
 Shaded cells exceed the screening value.

(1) New York State Department of Environmental Conservation, Subpart 375-6: Remedial Program Soil Cleanup Objectives for Restricted Commercial Use



# **Data Usability Summary Reports (DUSRs)**

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per NYSDEC Division of Environmental Remediation Guidance for the Development of DUSRs (June 1999). Specific criteria for QC limits were obtained from the project QAPP. Compliance with the project QA program is indicated on the in the checklist and tables. Any major or minor concerns affected data usability are summarized listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

**Table 1 Sample Summary Tables from Electronic Data Deliverable**

| <b>ProjectID</b> | <b>Lab Work Order</b> |
|------------------|-----------------------|
| Al Tech Steel    | F0924                 |
| Al Tech Steel    | F0934                 |
| Al Tech Steel    | F0935                 |
| Al Tech Steel    | F0950                 |
| Al Tech Steel    | F0958                 |

**Work Orders, Tests and Number of Samples included in this DUSR**

| <b>Work Order</b> | <b>Matrix</b> | <b>Sample ID</b> | <b>Lab ID</b> | <b>Sample Date</b> | <b>Lab QC</b> | <b>MS/MSD</b> | <b>ID Corrections</b> |
|-------------------|---------------|------------------|---------------|--------------------|---------------|---------------|-----------------------|
| F0924             | Soil          | ATSS-SP-01-06    | F0924-01A     | 7/9/2007           | MS/MSD        |               | None                  |
| F0924             | Soil          | ATSS-SP-01-06    | F0924-01B     | 7/9/2007           | MS/MSD        |               | None                  |
| F0924             | Soil          | ATSS-SP-02-05    | F0924-02A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-SP-02-05    | F0924-02B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-01-02    | F0924-03A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-01-02    | F0924-03B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-02-1.5   | F0924-04A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-02-1.5   | F0924-04B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-SP-04-2.5   | F0924-05A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-SP-04-2.5   | F0924-05B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-03-04    | F0924-06A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-03-04    | F0924-06B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-04-01    | F0924-07A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-04-01    | F0924-07B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-05-1.5   | F0924-08A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-05-1.5   | F0924-08B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-05-1.5-D | F0924-09A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-05-1.5-D | F0924-09B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-07-03    | F0924-10A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-07-03    | F0924-10B     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-08-1.5   | F0924-11A     | 7/9/2007           |               |               | None                  |
| F0924             | Soil          | ATSS-NP-08-1.5   | F0924-11B     | 7/9/2007           |               |               | None                  |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|       |      |                 |           |           |          |  |      |
|-------|------|-----------------|-----------|-----------|----------|--|------|
| F0924 | Soil | ATSS-NP-09-1.5  | F0924-12A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-09-1.5  | F0924-12B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-SP-07-03   | F0924-13A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-SP-07-03   | F0924-13B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-SP-06-02   | F0924-14A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-SP-06-02   | F0924-14B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-06-1.5  | F0924-15A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-06-1.5  | F0924-15B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-15-02   | F0924-16A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-15-02   | F0924-16B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-14-02   | F0924-17A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-14-02   | F0924-17B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-ID-13-02   | F0924-18A | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-ID-13-02   | F0924-18B | 7/9/2007  |          |  | None |
| F0924 | Soil | ATSS-NP-16-06   | F0924-19A | 7/10/2007 | MS/MSD   |  | None |
| F0924 | Soil | ATSS-NP-16-06   | F0924-19B | 7/10/2007 |          |  | None |
| F0924 | Soil | ATSS-NP-17-02   | F0924-20A | 7/10/2007 |          |  | None |
| F0924 | Soil | ATSS-NP-17-02   | F0924-20B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-18-1.5  | F0934-01A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-18-1.5  | F0934-01B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-19-1.5  | F0934-02A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-19-1.5  | F0934-02B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-20-01   | F0934-03A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-20-01   | F0934-03B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-22-02   | F0934-04A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-22-02   | F0934-04B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-23-03   | F0934-05A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-23-03   | F0934-05B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-24-02   | F0934-06A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-24-02   | F0934-06B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-24-02D  | F0934-07A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-24-02D  | F0934-07B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPR-03-02  | F0934-08A | 7/10/2007 | MS/MSD * |  | None |
| F0934 | Soil | ATSS-EPR-03-02  | F0934-08B | 7/10/2007 | MS/MSD * |  | None |
| F0934 | Soil | ATSS-EPR-01-02  | F0934-09A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPR-01-02  | F0934-09B | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPR-02-1.5 | F0934-10A | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPR-02-1.5 | F0934-10B | 7/10/2007 |          |  | None |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|       |      |                 |            |           |          |  |      |
|-------|------|-----------------|------------|-----------|----------|--|------|
| F0934 | Soil | ATSS-EPA-03-02  | F0934-11A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-03-02  | F0934-11B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-02-05  | F0934-12A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-02-05  | F0934-12B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-04-09  | F0934-13A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-04-09  | F0934-13B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-05-09  | F0934-14A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-05-09  | F0934-14AD | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-05-09  | F0934-14B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-06-7.5 | F0934-15A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-06-7.5 | F0934-15B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-01-03  | F0934-16A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-01-03  | F0934-16AD | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-01-03  | F0934-16AR | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-EPA-01-03  | F0934-16B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-21-02   | F0934-17A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-NP-21-02   | F0934-17B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-WPA-05-02  | F0934-18A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-WPA-04-02  | F0934-19A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-WPA-04-02  | F0934-19B  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-WPA-04-02D | F0934-20A  | 7/10/2007 |          |  | None |
| F0934 | Soil | ATSS-WPA-04-02D | F0934-20B  | 7/10/2007 |          |  | None |
| F0935 | Soil | ATSS-WPA-05-02D | F0935-01A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-WPA-03-0.6 | F0935-02A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-WPA-02-02  | F0935-03A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-WPA-01-0.6 | F0935-04A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-WPR-01-01  | F0935-05A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-WPR-01-01  | F0935-05B  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-01-05   | F0935-06A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-02-05   | F0935-07A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-01-05D  | F0935-08A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-03-07   | F0935-09A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-04-01   | F0935-10A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-05-04   | F0935-11A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-06-3.5  | F0935-12A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-07-3.5  | F0935-13A  | 7/11/2007 | MS/MSD * |  | None |
| F0935 | Soil | ATSS-GS-08-4.5  | F0935-14A  | 7/11/2007 |          |  | None |
| F0935 | Soil | ATSS-GS-09-03   | F0935-15A  | 7/11/2007 |          |  | None |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|       |         |                 |           |           |          |  |      |
|-------|---------|-----------------|-----------|-----------|----------|--|------|
| F0935 | Soil    | ATSS-GS-10-04   | F0935-16A | 7/11/2007 |          |  | None |
| F0935 | Soil    | ATSS-GS-11-04   | F0935-17A | 7/11/2007 |          |  | None |
| F0935 | Soil    | ATSS-GS-12-4.5  | F0935-18A | 7/11/2007 |          |  | None |
| F0935 | Soil    | ATSS-GS-12-4.5D | F0935-19A | 7/11/2007 |          |  | None |
| F0935 | Soil    | ATSS-ID-01-04   | F0935-20A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-02-04   | F0950-01A | 7/11/2007 | MS/MSD * |  | None |
| F0950 | Soil    | ATSS-ID-03-04   | F0950-02A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-09-3.5  | F0950-03A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-08-04   | F0950-04A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-07-3.5  | F0950-05A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-07-3.5D | F0950-06A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-06-04   | F0950-07A | 7/11/2007 | MS/MSD * |  | None |
| F0950 | Soil    | ATSS-ID-05-02   | F0950-08A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-04-03   | F0950-09A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-10-4.5  | F0950-10A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-14-2.5  | F0950-11A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-15-03   | F0950-12A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-16-0.6  | F0950-13A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-17-05   | F0950-14A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-11-2.8  | F0950-15A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-ID-10-0.6  | F0950-16A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-NP-11-01   | F0950-17A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-NP-12-10.5 | F0950-18A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-NP-13-05   | F0950-19A | 7/11/2007 |          |  | None |
| F0950 | Soil    | ATSS-NP-13-05D  | F0950-20A | 7/11/2007 |          |  | None |
| F0958 | Soil    | ATSS-SP-15-03   | F0958-01A | 7/11/2007 | MS/MSD   |  | None |
| F0958 | Aqueous | ATSS-WS-01      | F0958-02A | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-01      | F0958-02B | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-01      | F0958-02C | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-02      | F0958-03A | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-02      | F0958-03B | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-02      | F0958-03C | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-03      | F0958-04A | 7/12/2007 |          |  | None |
| F0958 | Aqueous | ATSS-WS-03      | F0958-04B | 7/12/2007 |          |  | None |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|       |         |                |            |           |        |  |      |
|-------|---------|----------------|------------|-----------|--------|--|------|
| F0958 | Aqueous | ATSS-WS-03     | F0958-04C  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-04     | F0958-05A  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-04     | F0958-05B  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-04     | F0958-05C  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-05     | F0958-06A  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-05     | F0958-06B  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-05     | F0958-06BD | 7/12/2007 |        |  | None |
| F0958 | Aqueous | ATSS-WS-05     | F0958-06C  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-14-05  | F0958-07A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-12-01  | F0958-08A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-09-01  | F0958-09A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-08-1.5 | F0958-10A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-11-03  | F0958-11A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-16-0.6 | F0958-12A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | ATSS-SP-10-02  | F0958-13A  | 7/12/2007 | MS/MSD |  | None |
| F0958 | Soil    | ATSS-SP-13-04  | F0958-14A  | 7/12/2007 |        |  | None |
| F0958 | Aqueous | TRIP BLANK     | F0958-15A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | BM-NW-EPR      | F0958-16A  | 7/12/2007 |        |  | None |
| F0958 | Soil    | BM-SW-EPA      | F0958-17A  | 7/12/2007 |        |  | None |

| Work Orders | Matrix | Test Method   | Method Name    | Number of Samples | Sample Type |
|-------------|--------|---------------|----------------|-------------------|-------------|
| F0924       | Soil   | SW6010B_S     | Metals by ICP  | 20                | SAMP        |
| 924         | Soil   | SW7471A       | Mercury by FIA | 20                | SAMP        |
| F0924       | Soil   | SW8082_S      | PCB by GC-ECD  | 2                 | SAMP        |
| 924         | Soil   | SW8260B_LOW_S | VOC by GC-MS   | 2                 | SAMP        |
| F0924       | Soil   | SW8270C_S     | SVOA by GC-MS  | 2                 | SAMP        |
| 924         | Soil   | SW9012B_S     | Total Cyanide  | 20                | SAMP        |
| F0934       | Soil   | SW6010B_S     | Metals by ICP  | 20                | SAMP        |
| F0934       | Soil   | SW7471A       | Mercury by FIA | 20                | SAMP        |
| F0934       | Soil   | SW8082_S      | PCB by GC-ECD  | 1                 | RE          |
| F0934       | Soil   | SW8082_S      | PCB by GC-ECD  | 19                | SAMP        |
| F0934       | Soil   | SW8260B_LOW_S | VOC by GC-MS   | 19                | SAMP        |
| F0934       | Soil   | SW8260B_MED_S | VOC by GC-MS   | 2                 | SAMP        |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Work Orders | Matrix  | Test Method   | Method Name                | Number of Samples | Sample Type |
|-------------|---------|---------------|----------------------------|-------------------|-------------|
| F0934       | Soil    | SW8270C_S     | SVOA by GC-MS              | 2                 | DL          |
| F0934       | Soil    | SW8270C_S     | SVOA by GC-MS              | 19                | SAMP        |
| F0934       | Soil    | SW9012B_S     | Total Cyanide              | 20                | SAMP        |
| F0935       | Soil    | SW6010B_S     | Metals by ICP              | 20                | SAMP        |
| F0935       | Soil    | SW7471A       | Mercury by FIA             | 20                | SAMP        |
| F0935       | Soil    | SW8082_S      | PCB by GC-ECD              | 1                 | SAMP        |
| F0935       | Soil    | SW8260B_LOW_S | VOC by GC-MS               | 1                 | SAMP        |
| F0935       | Soil    | SW8270C_S     | SVOA by GC-MS              | 1                 | SAMP        |
| F0935       | Soil    | SW9012B_S     | Total Cyanide              | 20                | SAMP        |
| F0950       | Soil    | SW6010B_S     | Metals by ICP              | 20                | SAMP        |
| F0950       | Soil    | SW7471A       | Mercury by FIA             | 20                | SAMP        |
| F0950       | Soil    | SW9012B_S     | Total Cyanide              | 20                | SAMP        |
| F0958       | Aqueous | SW6010B_W     | Metals by ICP              | 5                 | SAMP        |
| F0958       | Aqueous | SW7470A       | Mercury by FIA             | 5                 | SAMP        |
| F0958       | Aqueous | SW8260B_25_W  | VOC by GC-MS (25 mL Purge) | 6                 | SAMP        |
| F0958       | Aqueous | SW8270C_W     | SVOA by GC-MS              | 1                 | DL          |
| F0958       | Aqueous | SW8270C_W     | SVOA by GC-MS              | 5                 | SAMP        |
| F0958       | Soil    | SW6010B_S     | Metals by ICP              | 11                | SAMP        |
| F0958       | Soil    | SW7471A       | Mercury by FIA             | 11                | SAMP        |
| F0958       | Soil    | SW9012B_S     | Total Cyanide              | 11                | SAMP        |

#### General Sample Information

|                                                                                                                                                                             |                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form?                                                                                                      | Yes                                                                                                                                                                                                               |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?                                                              | No – Metals samples collected on 7/10/07 were shipped without ice and received at 24°C. Mercury results qualified “UJ” or “J”.                                                                                    |
| Frequency of Field QC Samples Correct?<br>Field Duplicate - 1/20 samples<br>Trip Blank - Every cooler with VOCs waters only<br>Equipment Blank - 1/ set of samples per day? | Yes – Field duplicates and trip blank included. Equipment blank not collected.                                                                                                                                    |
| All ASP Forms complete?                                                                                                                                                     | Yes                                                                                                                                                                                                               |
| Case narrative present and complete?                                                                                                                                        | Yes                                                                                                                                                                                                               |
| Any holding time violations (See table below)?                                                                                                                              | No - All samples were prepared and analyzed within holding times. Sample EPA-01-03 re-extracted for PCB analysis to substantiate matrix effect after hold time expired. Results reported from initial extraction. |

Insert Holding time table below.

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria.

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

| <b>Volatile Organics and Semi-volatile Organics by GCMS</b>                                                                                                                                                       |                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                                                                                                                | <b>Notes and Qualifiers</b>                                                                                                                                                                           |
| Any compounds present in method, trip and field blanks (see Table 2)?                                                                                                                                             | No                                                                                                                                                                                                    |
| For samples, if results are <5 times the blank or < 10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs.                                                     | Samples are flagged U as noted on Table 2a for method blanks and Table 2b for field blanks.                                                                                                           |
| Surrogate for method blanks and LCS within limits?                                                                                                                                                                | No – Nitrobenzene-d5 recovery high for Method Blank-31233 and associated LCS/LCSD, and LCSD-31259. No qualifiers applied.                                                                             |
| Surrogate for samples and MS/MSD within limits? (See Table 3). All samples should be re-analyzed for VOCs? Samples should re-analyzed if >1 BN and/or > AP for BNAs is out. Matrix effects should be established. | No – For Method 8270C outliers, one only AP or one BN surrogate is outside QC limits, or surrogate was diluted out. No qualifiers applied.                                                            |
| Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?                                                                                                                   | Yes                                                                                                                                                                                                   |
| MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then J flag positive data in original sample due to matrix?                                                                                 | No                                                                                                                                                                                                    |
| LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.                                                                              | No – No recovery of 2,4-dinitrophenol and <10% recovery of 4,6-dinitro-2-methylphenol in LCS/LCSD associated with samples NP-16-06 and NP-17-02. Results qualified "R".                               |
| Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?                                                                                    | Yes                                                                                                                                                                                                   |
| Is initial calibration for target compounds <15 %RSD or curve fit?                                                                                                                                                | No – Positive detections not impacted. Response factors acceptable. No VOC or SVOC qualified based on ICAL.                                                                                           |
| Is continuing calibration for target compounds < 20.5%D.                                                                                                                                                          | No – Acetone qualified for sample EPA-04-09 qualified "J".<br><br>All 4-Nitrophenol results qualified "UJ" and benzaldehyde results for samples F0934-01 through F0934-10 and F0934-16 qualified "UJ" |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| <b>Volatile Organics and Semi-volatile Organics by GCMS</b>                                                                                  |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Description</b>                                                                                                                           | <b>Notes and Qualifiers</b> |
| Were any samples re-analyzed or diluted (see Table 6)?<br>For any sample re-analysis and dilutions is only one reportable result by flagged? | Yes                         |
| For TICs are there any system related compounds that should not be reported?                                                                 | No                          |
| Do field duplicate results show good precision for all compounds except TICs (see Table 7)?                                                  | Yes                         |

| <b>Pesticide and PCBs by GC/ECD</b>                                                                                                          |                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                                           | <b>Notes and Qualifiers</b>                                                                                                                                                                                                                                      |
| Any compounds present in method and field blanks as noted on Table 2?                                                                        | No.                                                                                                                                                                                                                                                              |
| For samples, if results are <5 times the blank then "U" flag data.                                                                           | Samples are flagged U as noted on Table 2a for method blanks and Table 2b for field blanks.                                                                                                                                                                      |
| Surrogate for method blanks and LCS within limits?                                                                                           | No -                                                                                                                                                                                                                                                             |
| Surrogate for samples and MS/MSD within limits? (See Table 3). Matrix effects should be established.                                         | Both Method 8082 surrogates outside of QC limits on both columns for sample ERPA-01-03. The sample was re-extracted and re-analyzed with similar surrogate recoveries substantiating a matrix effect. Results from initial analysis reported and qualified "UJ". |
| Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?                                              | Yes                                                                                                                                                                                                                                                              |
| MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then J flag positive data in original sample due to matrix?            | Yes                                                                                                                                                                                                                                                              |
| LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.         | Yes                                                                                                                                                                                                                                                              |
| Is initial calibration for target compounds <15 %RSD or curve fit?                                                                           | Yes                                                                                                                                                                                                                                                              |
| Is continuing calibration for target compounds < 15.5%D.                                                                                     | Yes                                                                                                                                                                                                                                                              |
| Were any samples re-analyzed or diluted (see Table 6)?<br>For any sample re-analysis and dilutions is only one reportable result by flagged? | No                                                                                                                                                                                                                                                               |
| Spot check retention time windows and second column confirmations as complete.                                                               | Acceptable.                                                                                                                                                                                                                                                      |
| Do field duplicate results show good precision for all compounds (see Table 7)?                                                              | Yes                                                                                                                                                                                                                                                              |

| <b>Metals by ICP and Mercury by CVAA</b>                              |                                                                                                                                                                                                 |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                    | <b>Notes and Qualifiers</b>                                                                                                                                                                     |
| Any compounds present in method and field blanks as noted on Table 2? | Yes<br><br>Lead detected in calibration blanks. Associated samples either reanalyzed or had level concentrations exceeding cal blank concentrations by 10 times. No qualifiers applied based on |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                  | calibration blanks.                                                                                                                                                                                                                                                                                    |
| For samples, if results are <5 times the blank then "U" flag data.                                                                                                               | Samples are flagged U as noted on Table 2a for method blanks and Table 2b for field blanks.                                                                                                                                                                                                            |
| Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?                                                                                  | Yes                                                                                                                                                                                                                                                                                                    |
| MS/MSD within QC criteria (see Table 4)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated. | No                                                                                                                                                                                                                                                                                                     |
| Were elements recovered $\leq 30\%$ ? If so, "R" flag associated NDs on Form 1's.                                                                                                | Yes – Antimony not recovered from MS of samples GS-07-3.5, ID-06-04, and SP-10-02. Also not recovered from post spike of GS-07-3.5. Silver recovery 8% for MS of GS-07-3.5 and zinc not recovered from MS of IS-02-04. Post spike recovery acceptable. Associated sample results qualified "R" or "J". |
| LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.                                             | Yes                                                                                                                                                                                                                                                                                                    |
| Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".                                                                                          | Yes                                                                                                                                                                                                                                                                                                    |
| Spot check ICS recoveries 80-120%. Contact lab.                                                                                                                                  | All are acceptable.                                                                                                                                                                                                                                                                                    |
| Spot check ICV 95-105%. Contact lab.                                                                                                                                             | All are acceptable.                                                                                                                                                                                                                                                                                    |
| Spot check CCV 90-110% or 80-120% for Hg. Contact lab.                                                                                                                           | All are acceptable.                                                                                                                                                                                                                                                                                    |
| Do field duplicate results show good precision for all compounds (see Table 7)?                                                                                                  | Yes                                                                                                                                                                                                                                                                                                    |

|                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Summary of Potential Impacts on Data Usability</b>                                                                                            |
| <b>Major Concerns</b>                                                                                                                            |
| Although sample exhibit severe matrix effects, suspect that metals samples may have been over-digested resulting in lose of antimony and silver. |
| 4-Nitrophenol and 4,6-dinitro-2-methylphenol not recovered from LCS. "R" qualified non-detect results.                                           |
| <b>Minor Concerns</b>                                                                                                                            |
| Results qualified based on LCS recovery, MS/MSD recovery and RPD values, calibration criteria and method blank results.                          |
| Mercury results estimated low based for group of sample shipped without ice.                                                                     |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

**Table 2 - List of Positive Results for Blank Samples**

| Method    | Sample ID | Samp Type | Analyte  | Result | Qual | Anal Type | Units | MDL   | PQL   |
|-----------|-----------|-----------|----------|--------|------|-----------|-------|-------|-------|
| SW6010B_S | MB-31094  | MBLK      | Antimony | 0.261  | B    | A         | mg/Kg | 0.056 | 1     |
| SW6010B_S | MB-31094  | MBLK      | Chromium | 0.026  | B    | A         | mg/Kg | 0.014 | 1     |
| SW6010B_S | MB-31094  | MBLK      | Lead     | 0.068  | B    | A         | mg/Kg | 0.041 | 0.5   |
| SW6010B_S | MB-31094  | MBLK      | Nickel   | 0.058  | B    | A         | mg/Kg | 0.026 | 2.5   |
| SW6010B_S | MB-31094  | MBLK      | Selenium | 0.32   | B    | A         | mg/Kg | 0.067 | 1.5   |
| SW6010B_S | MB-31094  | MBLK      | Silver   | 0.077  | B    | A         | mg/Kg | 0.019 | 1.5   |
| SW6010B_S | MB-31094  | MBLK      | Zinc     | 0.346  | B    | A         | mg/Kg | 0.056 | 2.5   |
| SW6010B_S | MB-31112  | MBLK      | Antimony | 0.251  | B    | A         | mg/Kg | 0.056 | 1.000 |
| SW6010B_S | MB-31112  | MBLK      | Cadmium  | 0.011  | B    | A         | mg/Kg | 0.005 | 0.250 |
| SW6010B_S | MB-31112  | MBLK      | Chromium | 0.298  | B    | A         | mg/Kg | 0.014 | 1.000 |
| SW6010B_S | MB-31112  | MBLK      | Copper   | 0.594  | B    | A         | mg/Kg | 0.210 | 1.500 |
| SW6010B_S | MB-31112  | MBLK      | Lead     | 0.497  | B    | A         | mg/Kg | 0.041 | 0.500 |
| SW6010B_S | MB-31112  | MBLK      | Nickel   | 0.081  | B    | A         | mg/Kg | 0.026 | 2.500 |
| SW6010B_S | MB-31112  | MBLK      | Selenium | 0.356  | B    | A         | mg/Kg | 0.067 | 1.500 |
| SW6010B_S | MB-31112  | MBLK      | Silver   | 0.023  | B    | A         | mg/Kg | 0.019 | 1.500 |
| SW6010B_S | MB-31112  | MBLK      | Zinc     | 0.632  | B    | A         | mg/Kg | 0.056 | 2.500 |
| SW6010B_S | MB-31137  | MBLK      | Antimony | 0.258  | B    | A         | mg/Kg | 0.056 | 1     |
| SW6010B_S | MB-31137  | MBLK      | Lead     | 0.073  | B    | A         | mg/Kg | 0.041 | 0.5   |
| SW6010B_S | MB-31137  | MBLK      | Selenium | 0.142  | B    | A         | mg/Kg | 0.067 | 1.5   |
| SW6010B_S | MB-31137  | MBLK      | Zinc     | 0.225  | B    | A         | mg/Kg | 0.056 | 2.5   |
| SW6010B_S | MB-31138  | MBLK      | Antimony | 0.258  | B    | A         | mg/Kg | 0.056 | 1.000 |
| SW6010B_S | MB-31138  | MBLK      | Chromium | 0.018  | B    | A         | mg/Kg | 0.014 | 1.000 |
| SW6010B_S | MB-31138  | MBLK      | Lead     | 0.060  | B    | A         | mg/Kg | 0.041 | 0.500 |
| SW6010B_S | MB-31138  | MBLK      | Selenium | 0.147  | B    | A         | mg/Kg | 0.067 | 1.500 |
| SW6010B_S | MB-31138  | MBLK      | Silver   | 0.054  | B    | A         | mg/Kg | 0.019 | 1.500 |
| SW6010B_S | MB-31138  | MBLK      | Vanadium | 0.027  | B    | A         | mg/Kg | 0.021 | 2.500 |
| SW6010B_S | MB-31138  | MBLK      | Zinc     | 0.184  | B    | A         | mg/Kg | 0.056 | 2.500 |
| SW6010B_S | MB-31160  | MBLK      | Chromium | 0.034  | B    | A         | mg/Kg | 0.014 | 1.000 |
| SW6010B_S | MB-31160  | MBLK      | Lead     | 0.321  | B    | A         | mg/Kg | 0.041 | 0.500 |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID | Samp Type | Analyte  | Result | Qual | Anal Type | Units | MDL   | PQL    |
|-----------|-----------|-----------|----------|--------|------|-----------|-------|-------|--------|
| SW6010B_S | MB-31160  | MBLK      | Nickel   | 0.040  | B    | A         | mg/Kg | 0.026 | 2.500  |
| SW6010B_S | MB-31160  | MBLK      | Zinc     | 0.498  | B    | A         | mg/Kg | 0.056 | 2.500  |
| SW6010B_S | MB-31221  | MBLK      | Antimony | 0.464  | B    | A         | mg/Kg | 0.056 | 1.000  |
| SW6010B_S | MB-31221  | MBLK      | Cadmium  | 0.021  | B    | A         | mg/Kg | 0.005 | 0.250  |
| SW6010B_S | MB-31221  | MBLK      | Chromium | 0.100  | B    | A         | mg/Kg | 0.014 | 1.000  |
| SW6010B_S | MB-31221  | MBLK      | Copper   | 0.364  | B    | A         | mg/Kg | 0.210 | 1.500  |
| SW6010B_S | MB-31221  | MBLK      | Lead     | 0.480  | B    | A         | mg/Kg | 0.041 | 0.500  |
| SW6010B_S | MB-31221  | MBLK      | Nickel   | 0.044  | B    | A         | mg/Kg | 0.026 | 2.500  |
| SW6010B_S | MB-31221  | MBLK      | Selenium | 0.187  | B    | A         | mg/Kg | 0.067 | 1.500  |
| SW6010B_S | MB-31221  | MBLK      | Silver   | 0.120  | B    | A         | mg/Kg | 0.019 | 1.500  |
| SW6010B_S | MB-31221  | MBLK      | Thallium | 0.123  | B    | A         | mg/Kg | 0.079 | 1.000  |
| SW6010B_S | MB-31221  | MBLK      | Zinc     | 0.460  | B    | A         | mg/Kg | 0.056 | 2.500  |
| SW6010B_W | MB-31161  | MBLK      | Antimony | 5.740  | B    | A         | µg/L  | 1.200 | 20.000 |
| SW6010B_W | MB-31161  | MBLK      | Cadmium  | 0.332  | B    | A         | µg/L  | 0.100 | 5.000  |
| SW6010B_W | MB-31161  | MBLK      | Chromium | 0.489  | B    | A         | µg/L  | 0.380 | 20.000 |
| SW6010B_W | MB-31161  | MBLK      | Cobalt   | 0.218  | B    | A         | µg/L  | 0.150 | 50.000 |
| SW6010B_W | MB-31161  | MBLK      | Lead     | 2.464  | B    | A         | µg/L  | 0.460 | 10.000 |
| SW6010B_W | MB-31161  | MBLK      | Nickel   | 0.630  | B    | A         | µg/L  | 0.590 | 50.000 |
| SW6010B_W | MB-31161  | MBLK      | Silver   | 1.540  | B    | A         | µg/L  | 0.910 | 30.000 |
| SW6010B_W | MB-31161  | MBLK      | Zinc     | 8.032  | B    | A         | µg/L  | 2.300 | 50.000 |
| SW7471A   | MB-31097  | MBLK      | Mercury  | 0.01   | B    | A         | mg/Kg | 0.007 | 0.033  |
| SW7471A   | MB-31142  | MBLK      | Mercury  | 0.008  | B    | A         | mg/Kg | 0.007 | 0.033  |

**Table 2A - List of Samples Qualified for Method Blank Contamination**

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 0.086         | BN*      | 1.2  | ATSS-SP-02-05    | U Flag        |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 0.29          | BN*      | 1.2  | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 0.4           | BN*      | 1.1  | ATSS-SP-07-03    | U Flag        |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 0.5           | BN*      | 1.2  | ATSS-ID-13-02    | U Flag        |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 0.57          | BN*      | 1.3  | ATSS-NP-07-03    | U Flag        |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 1.4           | N*       | 1.1  | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 12.4          | N*       | 1.3  | ATSS-SP-01-06    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 2.7           | N*       | 1.1  | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 550           | N*       | 1.1  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 6.7           | N*       | 0.97 | ATSS-NP-14-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 7.7           | N*       | 1    | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 8             | N*       | 1    | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Antimony | 0.261        | 98.4          | N*       | 1    | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 1040          | *        | 1.2  | ATSS-SP-06-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 106           | *        | 1.1  | ATSS-SP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 107           | *        | 1.2  | ATSS-SP-02-05    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 146           | *        | 1.1  | ATSS-NP-15-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 16.9          | *        | 1.3  | ATSS-SP-01-06    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 1800          | *        | 22   | ATSS-NP-03-04    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 20500         | *        | 500  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 215           | *        | 1.3  | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 2330          | *        | 56   | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 2580          | *        | 59   | ATSS-ID-13-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 29.8          | *        | 1.3  | ATSS-NP-01-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 422           | *        | 1.1  | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 440           | *        | 1    | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 449           | *        | 1.3  | ATSS-NP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 5200          | *        | 97   | ATSS-NP-14-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 5980          | *        | 100  | ATSS-NP-05-1.5-D | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 63000         | *        | 1100 | ATSS-NP-04-01    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Chromium | 0.026        | 78.7          | *        | 1.2  | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 1040          | *E       | 0.66 | ATSS-NP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 133           | *E       | 0.61 | ATSS-SP-06-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 135           | *E       | 0.61 | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 15.2          | *E       | 0.64 | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 209           | *E       | 0.5  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 22.5          | *E       | 0.63 | ATSS-NP-01-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 27.7          | *E       | 0.59 | ATSS-ID-13-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 270           | *E       | 0.67 | ATSS-SP-01-06    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 292           | *E       | 0.48 | ATSS-NP-14-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 349           | *E       | 0.5  | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 56.3          | *E       | 0.53 | ATSS-SP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 5610          | *E       | 100  | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 60            | *E       | 0.61 | ATSS-SP-02-05    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 600           | *E       | 0.56 | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 6410          | *E       | 270  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 655           | *E       | 0.53 | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 8650          | *E       | 110  | ATSS-NP-03-04    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Lead     | 0.068        | 93.1          | *E       | 0.54 | ATSS-NP-15-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 11900         | *        | 59   | ATSS-ID-13-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 12900         | *        | 250  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 1420          | *        | 2.4  | ATSS-NP-14-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 15.2          | *        | 3.2  | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 17.3          | *        | 3.3  | ATSS-SP-01-06    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 1710          | *        | 2.5  | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 2300          | *        | 3    | ATSS-SP-06-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 257           | *        | 3.3  | ATSS-NP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 31500         | *        | 270  | ATSS-NP-04-01    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 35.4          | *        | 3.1 | ATSS-NP-01-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 49.2          | *        | 3   | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 624           | *        | 2.8 | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 677           | *        | 2.8 | ATSS-NP-03-04    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 69.2          | *        | 3   | ATSS-SP-02-05    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 72.4          | *        | 2.7 | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 83.9          | *        | 2.7 | ATSS-NP-15-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 94.5          | *        | 2.6 | ATSS-SP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Nickel   | 0.058        | 95.3          | *        | 2.5 | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 10.1          | E        | 1.7 | ATSS-NP-03-04    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 10.7          | E        | 1.5 | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 13.2          | E        | 1.8 | ATSS-SP-06-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 2.5           | E        | 1.6 | ATSS-SP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 2.9           | E        | 1.6 | ATSS-NP-15-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 3.2           | E        | 1.8 | ATSS-SP-02-05    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 3.2           | E        | 1.9 | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 3.8           | E        | 1.8 | ATSS-ID-13-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 3.8           | E        | 1.9 | ATSS-NP-01-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 4.2           | E        | 2   | ATSS-SP-01-06    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 4.6           | E        | 1.6 | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 5.7           | E        | 2   | ATSS-NP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 6.9           | E        | 1.5 | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 6.9           | E        | 1.8 | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 7.5           | E        | 1.5 | ATSS-NP-14-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Selenium | 0.32         | 8.4           | E        | 1.5 | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Silver   | 0.077        | 0.72          | B        | 1.7 | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc     | 0.346        | 101           | *E       | 2.5 | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc     | 0.346        | 101           | *E       | 3   | ATSS-SP-02-05    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc     | 0.346        | 127           | *E       | 2.8 | ATSS-NP-03-04    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte | Blank Result | Sample Result | Lab Qual | PQL   | Affected Samples | Sample Flag   |
|-----------|-----------|--------|---------|--------------|---------------|----------|-------|------------------|---------------|
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 140           | *E       | 3.3   | ATSS-NP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 145           | *E       | 2.5   | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 164           | *E       | 2.8   | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 165           | *E       | 2.7   | ATSS-NP-04-01    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 177           | *E       | 2.4   | ATSS-NP-14-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 199           | *E       | 2.5   | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 269           | *E       | 2.6   | ATSS-SP-07-03    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 29.9          | *E       | 3     | ATSS-ID-13-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 453           | *E       | 3     | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 47.3          | *E       | 2.7   | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 51.1          | *E       | 3.3   | ATSS-SP-01-06    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 70.4          | *E       | 3.2   | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 77            | *E       | 2.7   | ATSS-NP-15-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 85.7          | *E       | 3     | ATSS-SP-06-02    | Not Qualified |
| SW6010B_S | MB-31094  | Soil   | Zinc    | 0.346        | 90.9          | *E       | 3.1   | ATSS-NP-01-02    | Not Qualified |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.043         |          | 0.037 | ATSS-NP-15-02    | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.044         |          | 0.036 | ATSS-NP-14-02    | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.046         |          | 0.041 | ATSS-NP-09-1.5   | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.048         |          | 0.034 | ATSS-NP-02-1.5   | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.048         |          | 0.039 | ATSS-NP-01-02    | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.057         |          | 0.035 | ATSS-NP-06-1.5   | Not Qualified |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.057         |          | 0.038 | ATSS-NP-07-03    | Not Qualified |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.06          |          | 0.034 | ATSS-NP-03-04    | Not Qualified |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.071         |          | 0.041 | ATSS-SP-01-06    | Not Qualified |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.081         |          | 0.036 | ATSS-NP-05-1.5   | Not Qualified |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.02          | B        | 0.037 | ATSS-SP-04-2.5   | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.026         | B        | 0.038 | ATSS-NP-08-1.5   | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury | 0.01         | 0.031         | B        | 0.036 | ATSS-NP-05-1.5-D | U Flag        |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL   | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|-------|------------------|---------------|
| SW7471A   | MB-31097  | Soil   | Mercury  | 0.01         | 0.033         | B        | 0.034 | ATSS-SP-06-02    | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury  | 0.01         | 0.035         | B        | 0.043 | ATSS-SP-02-05    | U Flag        |
| SW7471A   | MB-31097  | Soil   | Mercury  | 0.01         | 0.036         | B        | 0.036 | ATSS-SP-07-03    | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.051         | BN       | 0.88  | ATSS-EPR-03-02   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.068         | BN       | 1.0   | ATSS-EPA-04-09   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.15          | BN       | 1.0   | ATSS-NP-21-02    | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.18          | BN       | 0.96  | ATSS-EPR-01-02   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.36          | BN       | 1.0   | ATSS-EPA-05-09   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.40          | BN       | 1.0   | ATSS-NP-18-1.5   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.87          | BN       | 1.1   | ATSS-EPR-02-1.5  | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 0.99          | BN       | 1.1   | ATSS-NP-23-03    | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Antimony | 0.251        | 1.1           | N        | 1.0   | ATSS-NP-22-02    | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.21          | BE       | 0.29  | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.28          | BE       | 0.31  | ATSS-WPA-04-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.33          | E        | 0.31  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.42          | E        | 0.29  | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.50          | E        | 0.35  | ATSS-WPA-04-02D  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.51          | E        | 0.30  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.61          | E        | 0.26  | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.63          | E        | 0.31  | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.76          | E        | 0.27  | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.76          | E        | 0.32  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.78          | E        | 0.35  | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.81          | E        | 0.32  | ATSS-NP-24-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.85          | E        | 0.31  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.87          | E        | 0.31  | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 0.91          | E        | 0.27  | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 1.1           | E        | 0.36  | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 1.7           | E        | 0.31  | ATSS-NP-19-1.5   | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 22.2          | E        | 0.29 | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 4.3           | E        | 0.34 | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Cadmium  | 0.011        | 548           | E        | 0.30 | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 11.4          |          | 1.0  | ATSS-WPA-04-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 12.4          |          | 0.89 | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 15.3          |          | 1.2  | ATSS-WPA-04-02D  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 18.5          |          | 0.88 | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 21.7          |          | 1.1  | ATSS-NP-24-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 213           |          | 1.0  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 22.0          |          | 0.88 | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 22.5          |          | 1.2  | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 22.9          |          | 1.0  | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 25.8          |          | 1.2  | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 2730          |          | 100  | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 30.6          |          | 1.0  | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 387           |          | 1.1  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 45.1          |          | 1.0  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 50.7          |          | 0.97 | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 52.4          |          | 0.96 | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 73.9          |          | 0.97 | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 84.7          |          | 1.0  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 891           |          | 1.1  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Chromium | 0.298        | 99.8          |          | 1.0  | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper   | 0.594        | 10.2          |          | 1.5  | ATSS-WPA-04-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper   | 0.594        | 10.5          |          | 1.7  | ATSS-WPA-04-     | Not Qualified |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|---------|--------------|---------------|----------|------|------------------|---------------|
|           |           |        |         |              |               |          |      | 02D              |               |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 166           |          | 1.7  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 21.0          |          | 1.8  | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 242           |          | 1.5  | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 243           |          | 1.6  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 25.6          |          | 1.3  | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 28.9          |          | 1.5  | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 29.2          |          | 1.5  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 33.6          |          | 1.8  | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 34.4          |          | 1.6  | ATSS-NP-24-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 35.4          |          | 1.5  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 35.9          |          | 1.6  | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 42.6          |          | 1.4  | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 423           |          | 1.6  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 47.5          |          | 1.5  | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 48.1          |          | 1.3  | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 505           |          | 1.3  | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 81.0          |          | 1.6  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Copper  | 0.594        | 984           |          | 1.5  | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 12.3          | *E       | 0.59 | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 1260          | *E       | 26   | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 14.8          | *E       | 0.58 | ATSS-WPA-04-02D  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 149           | *E       | 0.51 | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 155           | *E       | 0.50 | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 1650          | *E       | 28   | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 18.9          | *E       | 0.53 | ATSS-NP-24-02    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|---------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 1850          | *E       | 25   | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 19.5          | *E       | 0.52 | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 20.7          | *E       | 0.44 | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 21.7          | *E       | 0.48 | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 217           | *E       | 0.48 | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 28.1          | *E       | 0.60 | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 30.4          | *E       | 0.44 | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 326           | *E       | 0.52 | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 50.2          | *E       | 0.44 | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 5000          | *E       | 51   | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 67.8          | *E       | 0.49 | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 9.1           | *E       | 0.51 | ATSS-WPA-04-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Lead    | 0.497        | 96.7          | *E       | 0.54 | ATSS-NP-23-03    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 12.7          | E        | 2.5  | ATSS-WPA-04-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 14.0          | E        | 2.9  | ATSS-WPA-04-02D  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 18.4          | E        | 2.4  | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 20.8          | E        | 2.2  | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 22.0          | E        | 2.6  | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 27.8          | E        | 2.2  | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 29.8          | E        | 2.9  | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 30.5          | E        | 2.5  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 311           | E        | 2.8  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 35.5          | E        | 2.2  | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 35.7          | E        | 2.6  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 36.1          | E        | 2.4  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 40.2          | E        | 2.6  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 42.6          | E        | 2.7  | ATSS-NP-24-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 45.8          | E        | 2.6  | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel  | 0.081        | 45.9          | E        | 2.7  | ATSS-NP-23-03    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_S | MB-31112  | Soil   | Nickel   | 0.081        | 46.1          | E        | 3.0 | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel   | 0.081        | 46.4          | E        | 2.4 | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel   | 0.081        | 63.8          | E        | 2.5 | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Nickel   | 0.081        | 873           | E        | 2.6 | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 1.7           |          | 1.5 | ATSS-WPA-04-02   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 1.8           |          | 1.3 | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 1.8           |          | 1.4 | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 2.0           |          | 1.7 | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 2.3           |          | 1.5 | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 2.4           |          | 1.3 | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 2.4           |          | 1.5 | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 2.5           |          | 1.3 | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 2.9           |          | 1.6 | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 3.0           |          | 1.7 | ATSS-WPA-04-02D  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 3.0           |          | 1.8 | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 3.1           |          | 1.5 | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 3.1           |          | 1.6 | ATSS-NP-24-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 3.1           |          | 1.8 | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 4.0           |          | 1.6 | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 6.5           |          | 1.5 | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 7.8           |          | 1.6 | ATSS-NP-23-03    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 9.0           |          | 1.6 | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 0.31          | B        | 1.5 | ATSS-EPA-05-09   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Selenium | 0.356        | 1.0           | B        | 1.5 | ATSS-EPA-04-09   | U Flag        |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 173           | E        | 2.8 | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 185           | E        | 2.6 | ATSS-NP-18-1.5   | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 195           | E        | 2.2  | ATSS-EPR-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 226           | E        | 2.5  | ATSS-NP-21-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 25.4          | E        | 2.7  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 35.0          | E        | 2.4  | ATSS-EPA-06-7.5  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 382           | E        | 2.6  | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 40.5          | E        | 2.5  | ATSS-WPA-04-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 442           | E        | 2.2  | ATSS-EPA-02-05   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 60.7          | E        | 2.6  | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 66.1          | E        | 2.9  | ATSS-WPA-04-02D  | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 72.8          | E        | 2.4  | ATSS-EPR-01-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 76.1          | E        | 2.2  | ATSS-EPA-03-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 77.0          | E        | 2.9  | ATSS-WPA-05-02   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 78.8          | E        | 2.5  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 82.2          | E        | 2.6  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 86.0          | E        | 3.0  | ATSS-NP-20-01    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 91.3          | E        | 2.4  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 93.7          | E        | 2.7  | ATSS-NP-24-02    | Not Qualified |
| SW6010B_S | MB-31112  | Soil   | Zinc     | 0.632        | 95.0          | E        | 2.6  | ATSS-NP-24-02D   | Not Qualified |
| SW6010B_S | MB-31137  | Soil   | Lead     | 0.073        | 37.5          |          | 0.53 | ATSS-NP-17-02    | Not Qualified |
| SW6010B_S | MB-31137  | Soil   | Lead     | 0.073        | 46.8          |          | 0.53 | ATSS-NP-16-06    | Not Qualified |
| SW6010B_S | MB-31137  | Soil   | Selenium | 0.142        | 2.1           |          | 1.6  | ATSS-NP-16-06    | Not Qualified |
| SW6010B_S | MB-31137  | Soil   | Selenium | 0.142        | 2.7           |          | 1.6  | ATSS-NP-17-02    | Not Qualified |
| SW6010B_S | MB-31137  | Soil   | Zinc     | 0.225        | 101           |          | 2.6  | ATSS-NP-17-02    | Not Qualified |
| SW6010B_S | MB-31137  | Soil   | Zinc     | 0.225        | 115           |          | 2.7  | ATSS-NP-16-06    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 0.79          | BN       | 1.3  | ATSS-GS-02-05    | U Flag        |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 0.80          | BN       | 1.2  | ATSS-ID-01-04    | U Flag        |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 1.0           | N        | 0.97 | ATSS-WPA-01-0.6  | U Flag        |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 119           | N        | 1.1  | ATSS-GS-08-4.5   | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 2.0           | N        | 1.4  | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 3.6           | N        | 1.2  | ATSS-GS-01-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 4.1           | N        | 1.3  | ATSS-GS-11-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Antimony | 0.258        | 52.8          | N        | 0.97 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 103           |          | 1.3  | ATSS-GS-02-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 12.5          |          | 0.92 | ATSS-GS-10-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 2190          |          | 54   | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 25.7          |          | 1.2  | ATSS-GS-01-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 2550          |          | 56   | ATSS-GS-09-03    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 26.1          |          | 1.2  | ATSS-WPA-05-02D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 26.8          |          | 0.97 | ATSS-WPA-01-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 2880          |          | 53   | ATSS-GS-05-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 292           |          | 1.2  | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 320           |          | 1.1  | ATSS-GS-04-01    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 365           |          | 0.97 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 422           |          | 1.1  | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 44.4          |          | 1.1  | ATSS-WPA-02-02   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 473           |          | 1.2  | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 54.8          |          | 1.2  | ATSS-ID-01-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 59.5          |          | 1.4  | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 6020          |          | 58   | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 6400          |          | 220  | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 676           |          | 1.2  | ATSS-GS-03-07    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Chromium | 0.018        | 80.9          |          | 1.3  | ATSS-GS-11-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 10700         | *        | 110  | ATSS-GS-08-4.5   | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 132           | *        | 0.62 | ATSS-GS-01-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 15.8          | *        | 0.58 | ATSS-WPA-05-02D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 161           | *        | 0.65 | ATSS-GS-02-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 161           | *        | 0.68 | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 163           | *        | 0.62 | ATSS-ID-01-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 18.6          | *        | 0.46 | ATSS-GS-10-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 18300         | *        | 240  | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 1960          | *        | 29   | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 20.7          | *        | 0.60 | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 2470          | *        | 29   | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 264           | *        | 0.65 | ATSS-GS-11-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 291           | *        | 0.56 | ATSS-GS-04-01    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 293           | *        | 0.56 | ATSS-GS-09-03    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 331           | *        | 0.62 | ATSS-GS-03-07    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 523           | *        | 0.53 | ATSS-GS-05-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 6180          | *        | 110  | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 80.6          | *        | 0.48 | ATSS-WPA-01-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 82.2          | *        | 0.53 | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Lead     | 0.06         | 9.5           | *        | 0.53 | ATSS-WPA-02-02   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 0.97          | BN       | 1.6  | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 2.1           | N        | 1.6  | ATSS-WPA-02-02   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 2.3           | N        | 1.4  | ATSS-GS-10-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 2.6           | N        | 1.8  | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 3.1           | N        | 1.7  | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 3.1           | N        | 1.8  | ATSS-GS-01-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 3.4           | N        | 2.1  | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 3.5           | N        | 1.8  | ATSS-WPA-05-02D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 3.6           | N        | 1.7  | ATSS-GS-04-01    | Not Qualified |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 3.9           | N        | 2.0 | ATSS-GS-02-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 4.1           | N        | 1.9 | ATSS-GS-11-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 4.6           | N        | 1.8 | ATSS-GS-03-07    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 5.1           | N        | 1.6 | ATSS-GS-05-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 5.4           | N        | 1.7 | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 7.0           | N        | 1.5 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 7.0           | N        | 1.8 | ATSS-ID-01-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Selenium | 0.147        | 9.9           | N        | 1.6 | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 14.3          | NE       | 2.4 | ATSS-WPA-01-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 15.5          | NE       | 2.3 | ATSS-GS-10-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 183           | NE       | 2.7 | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 20.1          | NE       | 3.1 | ATSS-GS-01-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 21.5          | NE       | 3.2 | ATSS-GS-11-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 22.6          | NE       | 3.3 | ATSS-GS-02-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 26.7          | NE       | 3.0 | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 28.8          | NE       | 3.4 | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 29.0          | NE       | 2.7 | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 31.9          | NE       | 2.7 | ATSS-WPA-02-02   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 33.6          | NE       | 3.1 | ATSS-GS-03-07    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 335           | NE       | 2.9 | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 36.0          | NE       | 2.9 | ATSS-WPA-05-02D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 406           | NE       | 2.8 | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 44.0          | NE       | 2.8 | ATSS-GS-04-01    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 48.2          | NE       | 3.1 | ATSS-ID-01-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 581           | NE       | 2.6 | ATSS-GS-05-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 77.7          | NE       | 2.9 | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 827           | NE       | 2.8 | ATSS-GS-09-03    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Vanadium | 0.027        | 97.2          | NE       | 2.4 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 100           | NE       | 2.8 | ATSS-GS-04-01    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL   | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|-------|------------------|---------------|
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 114           | NE       | 3.1   | ATSS-GS-03-07    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 118           | NE       | 3.3   | ATSS-GS-02-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 151           | NE       | 2.9   | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 21.7          | NE       | 2.8   | ATSS-GS-09-03    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 224           | NE       | 2.7   | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 24.9          | NE       | 3.1   | ATSS-ID-01-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 30.0          | NE       | 3.2   | ATSS-GS-11-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 36.8          | NE       | 2.7   | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 41.3          | NE       | 3.0   | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 53.1          | NE       | 2.7   | ATSS-WPA-02-02   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 62.0          | NE       | 2.4   | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 68.4          | NE       | 2.6   | ATSS-GS-05-04    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 82.6          | NE       | 3.1   | ATSS-GS-01-05    | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 82.6          | NE       | 3.4   | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 83.5          | NE       | 2.8   | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 91.2          | NE       | 2.4   | ATSS-WPA-01-0.6  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 93.7          | NE       | 2.9   | ATSS-WPA-05-02D  | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 95.4          | NE       | 2.9   | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_S | MB-31138  | Soil   | Zinc     | 0.184        | 98.9          | NE       | 2.3   | ATSS-GS-10-04    | Not Qualified |
| SW7471A   | MB-31142  | Soil   | Mercury  | 0.008        | 0.035         |          | 0.035 | ATSS-NP-16-06    | U Flag        |
| SW7471A   | MB-31142  | Soil   | Mercury  | 0.008        | 0.058         |          | 0.038 | ATSS-NP-17-02    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 10.9          | E        | 1.1   | ATSS-ID-11-2.8   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 102           | E        | 1.2   | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 107           | E        | 1.1   | ATSS-ID-04-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 12.6          | E        | 1.0   | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 129           | E        | 0.99  | ATSS-NP-13-05D   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 138           | E        | 1.0   | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 1420          | E        | 21    | ATSS-ID-07-3.5   | Not Qualified |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 177           | E        | 1.1  | ATSS-ID-15-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 2040          | E        | 44   | ATSS-NP-11-01    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 20900         | E        | 510  | ATSS-ID-06-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 21.3          | E        | 1.2  | ATSS-ID-09-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 24.1          | E        | 1.3  | ATSS-ID-08-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 330           | E        | 1.0  | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 335           | E        | 1.1  | ATSS-ID-02-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 46.3          | E        | 1.0  | ATSS-ID-17-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 462           | E        | 1.2  | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 66.9          | E        | 0.95 | ATSS-NP-13-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 738           | E        | 0.94 | ATSS-ID-03-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 817           | E        | 1.1  | ATSS-ID-07-3.5D  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Chromium | 0.034        | 840           | E        | 1.1  | ATSS-ID-05-02    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 12.5          | *        | 0.53 | ATSS-ID-11-2.8   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 131           | *        | 5.1  | ATSS-ID-06-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 16.4          | *        | 0.57 | ATSS-ID-05-02    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 16.6          | *        | 0.58 | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 1610          | *        | 27   | ATSS-ID-04-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 163           | *        | 2.5  | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 17.1          | *        | 0.64 | ATSS-ID-08-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 178           | *        | 2.7  | ATSS-ID-07-3.5D  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 19.4          | *        | 0.47 | ATSS-NP-13-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 2530          | *        | 53   | ATSS-ID-07-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 255           | *        | 6.0  | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 31.8          | *        | 0.52 | ATSS-ID-17-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 3100          | *        | 51   | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 388           | *        | 5.7  | ATSS-ID-15-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 389           | *        | 22   | ATSS-NP-11-01    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead     | 0.321        | 39.8          | *        | 0.50 | ATSS-NP-13-05D   | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|---------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31160  | Soil   | Lead    | 0.321        | 50.3          | *        | 0.61 | ATSS-ID-09-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead    | 0.321        | 526           | *        | 5.7  | ATSS-ID-02-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead    | 0.321        | 5780          | *        | 94   | ATSS-ID-03-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Lead    | 0.321        | 958           | *        | 26   | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 11800         | NE       | 26   | ATSS-ID-06-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 13.9          | NE       | 2.7  | ATSS-ID-07-3.5D  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 138           | NE       | 2.7  | ATSS-ID-04-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 148           | NE       | 2.8  | ATSS-ID-02-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 16.6          | NE       | 3.1  | ATSS-ID-09-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 18.2          | NE       | 3.0  | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 20.8          | NE       | 2.7  | ATSS-ID-11-2.8   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 22.2          | NE       | 3.2  | ATSS-ID-08-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 26.4          | NE       | 2.5  | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 34.0          | NE       | 2.6  | ATSS-ID-07-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 41.3          | NE       | 2.5  | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 44.1          | NE       | 2.8  | ATSS-ID-05-02    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 44.6          | NE       | 2.4  | ATSS-NP-13-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 46.0          | NE       | 2.4  | ATSS-ID-03-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 46.9          | NE       | 2.9  | ATSS-ID-15-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 67.8          | NE       | 2.5  | ATSS-NP-13-05D   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 8.3           | NE       | 2.6  | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 80.6          | NE       | 2.6  | ATSS-ID-17-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 878           | NE       | 2.2  | ATSS-NP-11-01    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Nickel  | 0.04         | 88.1          | NE       | 2.9  | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Zinc    | 0.498        | 112           | N*E      | 2.9  | ATSS-ID-15-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Zinc    | 0.498        | 116           | N*E      | 2.7  | ATSS-ID-11-2.8   | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Zinc    | 0.498        | 12.8          | N*E      | 2.7  | ATSS-ID-07-3.5D  | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Zinc    | 0.498        | 139           | N*E      | 2.7  | ATSS-ID-04-03    | Not Qualified |
| SW6010B_S | MB-31160  | Soil   | Zinc    | 0.498        | 142           | N*E      | 2.2  | ATSS-NP-11-01    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 15.5          | N*E      | 2.6 | ATSS-ID-07-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 15.8          | N*E      | 3.0 | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 159           | N*E      | 2.5 | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 177           | N*E      | 2.6 | ATSS-ID-17-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 29.9          | N*E      | 2.6 | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 30.3          | N*E      | 2.4 | ATSS-ID-03-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 407           | N*E      | 2.8 | ATSS-ID-02-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 52.7          | N*E      | 2.4 | ATSS-NP-13-05    | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 53.6          | N*E      | 2.5 | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 66.2          | N*E      | 2.5 | ATSS-NP-13-05D   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 68.2          | N*E      | 2.9 | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 69.5          | N*E      | 3.1 | ATSS-ID-09-3.5   | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 7.5           | N*E      | 2.8 | ATSS-ID-05-02    | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 71.8          | N*E      | 3.2 | ATSS-ID-08-04    | Not Qualified |
| SW6010B_S | MB-31160  | Soil    | Zinc     | 0.498        | 85.8          | N*E      | 2.6 | ATSS-ID-06-04    | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Antimony | 5.74         | 3.1           | B        | 20  | ATSS-WS-02       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Antimony | 5.74         | 3.8           | B        | 20  | ATSS-WS-04       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Antimony | 5.74         | 4.9           | B        | 20  | ATSS-WS-01       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Antimony | 5.74         | 9.1           | B        | 20  | ATSS-WS-03       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Cadmium  | 0.332        | 0.32          | B        | 5.0 | ATSS-WS-03       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Cadmium  | 0.332        | 2.9           | B        | 5.0 | ATSS-WS-02       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Cadmium  | 0.332        | 3.9           | B        | 5.0 | ATSS-WS-05       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Chromium | 0.489        | 24.8          |          | 20  | ATSS-WS-03       | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31161  | Aqueous | Chromium | 0.489        | 9040          |          | 100 | ATSS-WS-05       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Chromium | 0.489        | 16.8          | B        | 20  | ATSS-WS-02       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Chromium | 0.489        | 5.0           | B        | 20  | ATSS-WS-01       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Cobalt   | 0.218        | 0.30          | B        | 50  | ATSS-WS-01       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Cobalt   | 0.218        | 0.69          | B        | 50  | ATSS-WS-04       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Cobalt   | 0.218        | 0.75          | B        | 50  | ATSS-WS-03       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Cobalt   | 0.218        | 38.3          | B        | 50  | ATSS-WS-05       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Cobalt   | 0.218        | 6.4           | B        | 50  | ATSS-WS-02       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Lead     | 2.464        | 16.4          |          | 10  | ATSS-WS-02       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Lead     | 2.464        | 34.9          |          | 10  | ATSS-WS-03       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Lead     | 2.464        | 350           |          | 10  | ATSS-WS-05       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Lead     | 2.464        | 1.1           | B        | 10  | ATSS-WS-04       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Lead     | 2.464        | 8.9           | B        | 10  | ATSS-WS-01       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Nickel   | 0.63         | 2330          |          | 50  | ATSS-WS-05       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Nickel   | 0.63         | 63.4          |          | 50  | ATSS-WS-02       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Nickel   | 0.63         | 1.8           | B        | 50  | ATSS-WS-01       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Nickel   | 0.63         | 2.5           | B        | 50  | ATSS-WS-04       | U Flag        |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31161  | Aqueous | Nickel   | 0.63         | 21.1          | B        | 50   | ATSS-WS-03       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Silver   | 1.54         | 1.1           | B        | 30   | ATSS-WS-01       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Silver   | 1.54         | 2.8           | B        | 30   | ATSS-WS-02       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Silver   | 1.54         | 3.4           | B        | 30   | ATSS-WS-04       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Silver   | 1.54         | 3.7           | B        | 30   | ATSS-WS-03       | U Flag        |
| SW6010B_W | MB-31161  | Aqueous | Zinc     | 8.032        | 119           |          | 50   | ATSS-WS-04       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Zinc     | 8.032        | 55.4          |          | 50   | ATSS-WS-03       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Zinc     | 8.032        | 578           |          | 50   | ATSS-WS-05       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Zinc     | 8.032        | 86.1          |          | 50   | ATSS-WS-02       | Not Qualified |
| SW6010B_W | MB-31161  | Aqueous | Zinc     | 8.032        | 34.8          | B        | 50   | ATSS-WS-01       | U Flag        |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 0.11          | BN*E     | 0.97 | ATSS-SP-13-04    | U Flag        |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 0.18          | BN*E     | 0.93 | ATSS-SP-11-03    | U Flag        |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 0.30          | BN*E     | 1.0  | ATSS-SP-08-1.5   | U Flag        |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 0.75          | BN*E     | 0.99 | ATSS-SP-09-01    | U Flag        |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 1.6           | N*E      | 0.94 | BM-SW-EPA        | U Flag        |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 10.6          | N*E      | 0.90 | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 2.5           | N*E      | 1.2  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 3.0           | N*E      | 1.4  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil    | Antimony | 0.464        | 3.4           | N*E      | 0.99 | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil    | Cadmium  | 0.021        | 0.56          | *E       | 0.25 | ATSS-SP-08-1.5   | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 0.57          | *E       | 0.23 | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 0.64          | *E       | 0.31 | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 0.64          | *E       | 0.34 | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 0.66          | *E       | 0.25 | ATSS-SP-09-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 1.1           | *E       | 0.30 | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 1.2           | *E       | 0.23 | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 1.5           | *E       | 0.25 | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 2.0           | *E       | 0.24 | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 4.2           | *E       | 0.24 | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Cadmium  | 0.021        | 4.7           | *E       | 0.23 | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 111           | *        | 1.0  | ATSS-SP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 170           | *        | 0.94 | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 27.3          | *        | 0.93 | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 32.3          | *        | 0.99 | ATSS-SP-09-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 423           | *        | 0.97 | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 468           | *        | 0.96 | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 55.6          | *        | 1.2  | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 5870          | *        | 90   | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 600           | *        | 1.2  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 733           | *        | 4.9  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Chromium | 0.1          | 832           | *        | 1.4  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 203           |          | 2.0  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 218           |          | 1.5  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 294           |          | 1.5  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 350           |          | 1.4  | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 427           |          | 1.4  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 48.0          |          | 1.5  | ATSS-SP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 49.2          |          | 1.5  | ATSS-SP-09-01    | Not Qualified |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 71.3          |          | 1.8  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 73.8          |          | 1.4  | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 80.0          |          | 1.4  | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Copper   | 0.364        | 91.9          |          | 1.9  | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 163           | *        | 3.4  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 179           | *        | 2.5  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 210           | *        | 3.0  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 282           | *        | 4.5  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 393           | *        | 4.8  | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 397           | *        | 4.9  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 40.9          | *        | 0.49 | ATSS-SP-09-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 51.3          | *        | 0.62 | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 60.1          | *        | 0.93 | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 60.6          | *        | 1.0  | ATSS-SP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Lead     | 0.48         | 65.9          | *        | 0.94 | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 133           |          | 2.5  | ATSS-SP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 154           |          | 2.3  | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 317           |          | 2.4  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 332           |          | 2.4  | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 3390          |          | 23   | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 35.3          |          | 2.3  | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 371           |          | 3.0  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 42.9          |          | 2.5  | ATSS-SP-09-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 486           |          | 3.4  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 51.6          |          | 3.1  | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Nickel   | 0.044        | 5780          |          | 12   | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 0.88          | BE       | 1.5  | ATSS-SP-08-1.5   | U Flag        |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|--------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 1.6           | E        | 1.4  | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 2.5           | E        | 1.5  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 3.3           | E        | 1.4  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 5.1           | E        | 1.5  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 6.2           | E        | 1.4  | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Selenium | 0.187        | 8.6           | E        | 1.9  | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Silver   | 0.12         | 11.4          | N        | 1.8  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Silver   | 0.12         | 3.5           | N        | 1.4  | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Silver   | 0.12         | 6.2           | N        | 2.0  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 1.1           | NE       | 0.94 | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 1.5           | NE       | 1.4  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 2.3           | NE       | 0.99 | ATSS-SP-09-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 2.5           | NE       | 1.0  | ATSS-SP-08-1.5   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 2.6           | NE       | 0.97 | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 3.3           | NE       | 0.93 | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 3.5           | NE       | 0.96 | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 3.8           | NE       | 1.2  | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 4.8           | NE       | 0.99 | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Thallium | 0.123        | 4.9           | NE       | 0.90 | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 109           | N*E      | 2.3  | ATSS-SP-11-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 140           | N*E      | 3.4  | BM-NW-EPR        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 157           | N*E      | 3.1  | ATSS-SP-15-03    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 158           | N*E      | 2.3  | BM-SW-EPA        | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 163           | N*E      | 2.5  | ATSS-SP-09-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 187           | N*E      | 3.0  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 197           | N*E      | 2.5  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 229           | N*E      | 2.3  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 695           | N*E      | 2.4  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_S | MB-31221  | Soil   | Zinc     | 0.46         | 85.3          | N*E      | 2.5  | ATSS-SP-08-1.5   | Not Qualified |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix | Analyte | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|--------|---------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_S | MB-31221  | Soil   | Zinc    | 0.46         | 98.0          | N*E      | 2.4 | ATSS-SP-16-0.6   | Not Qualified |

**Table 2B - List of Samples Qualified for Field Blank Contamination**

None

**Table 3 - List of Samples with Surrogates outside Control Limits**

| Method    | Sample ID      | Sample Type | Analyte              | Rec. | Low Limit | High Limit | Dil Fac | Sample Qual. |
|-----------|----------------|-------------|----------------------|------|-----------|------------|---------|--------------|
| SW8270C_W | ATSS-WS-01     | SAMP        | Nitrobenzene-d5      | 119  | 40        | 110        | 1       | None         |
| SW8270C_W | ATSS-WS-02     | SAMP        | Terphenyl-d14        | 25   | 50        | 135        | 1       | None         |
| SW8270C_W | ATSS-WS-03     | SAMP        | Nitrobenzene-d5      | 123  | 40        | 110        | 1       | None         |
| SW8270C_W | ATSS-WS-04     | SAMP        | 2-Fluorophenol       | 111  | 20        | 110        | 1       | None         |
| SW8270C_W | ATSS-WS-04     | SAMP        | Nitrobenzene-d5      | 128  | 40        | 110        | 1       | None         |
| SW8270C_W | ATSS-WS-05     | SAMP        | Terphenyl-d14        | 39   | 50        | 135        | 1       | None         |
| SW8270C_W | ATSS-WS-05     | DL          | Terphenyl-d14        | 37   | 50        | 135        | 2       | None         |
| SW8270C_W | LCS-31233      | LCS         | Nitrobenzene-d5      | 115  | 40        | 110        | 1       | None         |
| SW8270C_W | LCSD-31233     | LCSD        | Nitrobenzene-d5      | 111  | 40        | 110        | 1       | None         |
| SW8270C_W | MB-31233       | MBLK        | Nitrobenzene-d5      | 124  | 40        | 110        | 1       | None         |
| SW8270C_S | ATSS-EPA-01-03 | SAMP        | 2,4,6-Tribromophenol | 0    | 35        | 125        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | SAMP        | 2-Fluorophenol       | 0    | 35        | 105        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | SAMP        | Nitrobenzene-d5      | 110  | 35        | 100        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | SAMP        | Phenol-d5            | 0    | 40        | 100        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | SAMP        | Terphenyl-d14        | 0    | 30        | 125        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | DL          | 2,4,6-Tribromophenol | 0    | 35        | 125        | 100     | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | DL          | 2-Fluorobiphenyl     | 0    | 45        | 105        | 100     | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | DL          | 2-Fluorophenol       | 0    | 35        | 105        | 100     | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | DL          | Nitrobenzene-d5      | 0    | 35        | 100        | 100     | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | DL          | Phenol-d5            | 0    | 40        | 100        | 100     | Diluted Out  |
| SW8270C_S | ATSS-EPA-01-03 | DL          | Terphenyl-d14        | 0    | 30        | 125        | 100     | Diluted Out  |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID       | Sample Type | Analyte              | Rec. | Low Limit | High Limit | Dil Fac | Sample Qual. |
|-----------|-----------------|-------------|----------------------|------|-----------|------------|---------|--------------|
| SW8270C_S | ATSS-EPA-05-09  | SAMP        | 2,4,6-Tribromophenol | 17   | 35        | 125        | 1       | None         |
| SW8270C_S | ATSS-EPA-05-09  | DL          | 2,4,6-Tribromophenol | 0    | 35        | 125        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-05-09  | DL          | 2-Fluorophenol       | 0    | 35        | 105        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-05-09  | DL          | Nitrobenzene-d5      | 0    | 35        | 100        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-05-09  | DL          | Phenol-d5            | 0    | 40        | 100        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-05-09  | DL          | Terphenyl-d14        | 0    | 30        | 125        | 10      | Diluted Out  |
| SW8270C_S | ATSS-EPA-06-7.5 | SAMP        | Nitrobenzene-d5      | 103  | 35        | 100        | 1       | None         |
| SW8270C_S | ATSS-EPA-06-7.5 | SAMP        | Terphenyl-d14        | 128  | 30        | 125        | 1       | None         |
| SW8270C_S | ATSS-EPR-01-02  | SAMP        | 2,4,6-Tribromophenol | 27   | 35        | 125        | 1       | None         |
| SW8270C_S | ATSS-NP-21-02   | SAMP        | 2,4,6-Tribromophenol | 15   | 35        | 125        | 1       | None         |
| SW8270C_S | ATSS-NP-22-02   | SAMP        | 2,4,6-Tribromophenol | 17   | 35        | 125        | 1       | None         |
| SW8270C_S | LCSD-31259      | LCSD        | Nitrobenzene-d5      | 103  | 35        | 100        | 1       | None         |
| SW8082_S  | ATSS-EPA-01-03  | SAMP        | Decachlorobiphenyl   | 2046 | 29        | 155        | 1       | Flag UJ      |
| SW8082_S  | ATSS-EPA-01-03  | SAMP        | Tetrachloro-m-xylene | 22   | 42        | 147        | 1       | Flag UJ      |
| SW8082_S  | ATSS-EPA-01-03  | RE          | Decachlorobiphenyl   | 1512 | 29        | 155        | 1       | None         |
| SW8082_S  | ATSS-EPA-01-03  | RE          | Tetrachloro-m-xylene | 26   | 42        | 147        | 1       | None         |
| SW8082_S  | ATSS-EPA-05-09  | SAMP        | Decachlorobiphenyl   | 723  | 29        | 155        | 1       | None         |

**Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits**

| Method    | Sample ID      | Sample Type | Analyte | Orig. Result | Spike Amount | Rec. | Dil Fac | Low Limit | High Limit | Sample Qual. | REPORTABLE |
|-----------|----------------|-------------|---------|--------------|--------------|------|---------|-----------|------------|--------------|------------|
| SW9012B_S | ATSS-GS-07-3.5 | MS          | Cyanide | 0.5103       | 5.41         | 36.3 | 1       | 75        | 125        | J Flag       | Yes        |
| SW9012B_S | ATSS-SP-01-06  | MS          | Cyanide | 2.6664       | 6.12         | 43.6 | 1       | 75        | 125        | J Flag       | Yes        |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method        | Sample ID      | Sample Type | Analyte                               | Orig. Result | Spike Amount | Rec. | Dil Fac | Low Limit | High Limit | Sample Qual. | REPORTABLE |
|---------------|----------------|-------------|---------------------------------------|--------------|--------------|------|---------|-----------|------------|--------------|------------|
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.21        | 54.35        | 58.9 | 1       | 70        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,1,2-Trichloro-1,2,2-trifluoroethane | <0.19        | 51.27        | 69.4 | 1       | 70        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,2,3-Trichlorobenzene                | <0.96        | 54.35        | 32.6 | 1       | 60        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,2,3-Trichlorobenzene                | <0.9         | 51.27        | 35.9 | 1       | 60        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,2,4-Trichlorobenzene                | <0.77        | 54.35        | 33.6 | 1       | 65        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,2,4-Trichlorobenzene                | <0.73        | 51.27        | 35.9 | 1       | 65        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,2,4-Trimethylbenzene                | <0.35        | 54.35        | 58.7 | 1       | 65        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,2,4-Trimethylbenzene                | <0.33        | 51.27        | 61.1 | 1       | 65        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,2-Dichlorobenzene                   | <0.42        | 54.35        | 54.9 | 1       | 75        | 120        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,2-Dichlorobenzene                   | <0.4         | 51.27        | 55.6 | 1       | 75        | 120        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,3,5-Trimethylbenzene                | <0.28        | 54.35        | 61.9 | 1       | 65        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,3,5-Trimethylbenzene                | <0.27        | 51.27        | 62.7 | 1       | 65        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,3-Dichlorobenzene                   | <0.21        | 54.35        | 52.2 | 1       | 70        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,3-Dichlorobenzene                   | <0.19        | 51.27        | 53.5 | 1       | 70        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 1,4-Dichlorobenzene                   | <0.39        | 54.35        | 54.5 | 1       | 70        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 1,4-Dichlorobenzene                   | <0.37        | 51.27        | 53.6 | 1       | 70        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | 4-Isopropyltoluene                    | <0.29        | 54.35        | 56.6 | 1       | 75        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | 4-Isopropyltoluene                    | <0.28        | 51.27        | 58.3 | 1       | 75        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Chlorobenzene                         | <0.4         | 54.35        | 66.8 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Chlorobenzene                         | <0.38        | 51.27        | 64.6 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Ethylbenzene                          | <0.73        | 54.35        | 68.9 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Ethylbenzene                          | <0.69        | 51.27        | 69.7 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Isopropylbenzene                      | <0.33        | 54.35        | 64.5 | 1       | 75        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Isopropylbenzene                      | <0.31        | 51.27        | 65.1 | 1       | 75        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | m,p-Xylene                            | <0.72        | 108.7        | 68   | 1       | 80        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | m,p-Xylene                            | <0.68        | 102.5        | 66.3 | 1       | 80        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Methylcyclohexane                     | <0.45        | 54.35        | 67.9 | 1       | 70        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Methylcyclohexane                     | <0.42        | 51.27        | 67.8 | 1       | 70        | 130        | J Flag       | Yes        |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method        | Sample ID      | Sample Type | Analyte           | Orig. Result | Spike Amount | Rec. | Dil Fac | Low Limit | High Limit | Sample Qual. | REPORTABLE |
|---------------|----------------|-------------|-------------------|--------------|--------------|------|---------|-----------|------------|--------------|------------|
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | n-Butylbenzene    | <0.59        | 54.35        | 49.2 | 1       | 65        | 140        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | n-Butylbenzene    | <0.55        | 51.27        | 52.9 | 1       | 65        | 140        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | n-Propylbenzene   | <0.68        | 54.35        | 63   | 1       | 65        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | n-Propylbenzene   | <0.65        | 51.27        | 61.2 | 1       | 65        | 135        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | o-Xylene          | <0.48        | 54.35        | 72.8 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | o-Xylene          | <0.45        | 51.27        | 70.9 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | sec-Butylbenzene  | <0.48        | 54.35        | 57.4 | 1       | 65        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | sec-Butylbenzene  | <0.45        | 51.27        | 59.6 | 1       | 65        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Styrene           | <0.54        | 54.35        | 65.9 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Styrene           | <0.51        | 51.27        | 64.1 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | tert-Butylbenzene | <0.45        | 54.35        | 62.6 | 1       | 65        | 130        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Trichloroethene   | <0.39        | 54.35        | 57.1 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Trichloroethene   | <0.37        | 51.27        | 55.3 | 1       | 75        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MS          | Xylene (Total)    | <1           | 163          | 69.6 | 1       | 83        | 125        | J Flag       | Yes        |
| SW8260B_LOW_S | ATSS-EPR-03-02 | MSD         | Xylene (Total)    | <0.97        | 153.8        | 67.9 | 1       | 83        | 125        | J Flag       | Yes        |
| SW6010B_S     | ATSS-EPR-03-02 | MS          | Antimony          | 0.0490       | 19.94        | 30.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-EPR-03-02 | MS          | Zinc              | 194.8583     | 99.49        | 78.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Antimony          | <0.0650      | 26.42        | 0    | 1       | 80        | 120        | R or J Flag  | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Arsenic           | 43.8478      | 26.42        | 66.2 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Barium            | 140.9021     | 528.39       | 46.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Beryllium         | 0.0408       | 13.18        | 39.2 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Chromium          | 6023.3410    | 52.84        | 585  | 50      | 80        | 120        | None         | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Cobalt            | 46.6158      | 131.81       | 37.3 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Copper            | 335.3347     | 65.61        | 0    | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Lead              | 2467.4726    | 26.42        | 0    | 50      | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Nickel            | 2328.0798    | 131.81       | 125  | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Selenium          | <0.0780      | 26.42        | 40.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S     | ATSS-GS-07-3.5 | MS          | Silver            | <0.0220      | 65.61        | 8.02 | 1       | 75        | 120        | R or J Flag  | Yes        |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID      | Sample Type | Analyte  | Orig. Result | Spike Amount | Rec. | Dil Fac | Low Limit | High Limit | Sample Qual. | REPORTABLE |
|-----------|----------------|-------------|----------|--------------|--------------|------|---------|-----------|------------|--------------|------------|
| SW6010B_S | ATSS-GS-07-3.5 | MS          | Thallium | 11.9148      | 26.42        | 41.1 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-GS-07-3.5 | MS          | Vanadium | 334.9555     | 131.81       | 59.9 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-GS-07-3.5 | MS          | Zinc     | 95.4044      | 131.81       | 25.3 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Antimony | 2.6193       | 25.77        | 32.4 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Arsenic  | 17.6958      | 25.77        | 63.5 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Cadmium  | 5.5160       | 12.86        | 78.2 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Chromium | 335.2062     | 51.53        | 0    | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Copper   | 320.8771     | 63.99        | 0    | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Nickel   | 148.0728     | 128.55       | 70.5 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Silver   | <0.0220      | 63.99        | 73.8 | 1       | 75        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Vanadium | 75.0592      | 128.55       | 74.3 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-02-04  | MS          | Zinc     | 406.8611     | 128.55       | 0    | 1       | 80        | 120        | R or J Flag  | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Antimony | 64.9018      | 23.24        | 0    | 1       | 80        | 120        | R or J Flag  | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Arsenic  | 129.8619     | 23.24        | 21.2 | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Cadmium  | 6.6356       | 11.59        | 64   | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Chromium | 20890.5984   | 46.48        | 0    | 500     | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Cobalt   | 286.2974     | 115.93       | 67.8 | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Copper   | 663.2628     | 57.71        | 0    | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Lead     | 131.0807     | 23.24        | 0    | 10      | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Nickel   | 11767.8834   | 115.93       | 0    | 10      | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Silver   | <0.0190      | 57.71        | 45.7 | 1       | 75        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Thallium | 8.5860       | 23.24        | 78   | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Vanadium | 877.8653     | 115.93       | 147  | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-ID-06-04  | MS          | Zinc     | 85.8332      | 115.93       | 66.2 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-01-06  | MS          | Antimony | 12.3697      | 30.33        | 38.4 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-01-06  | MS          | Lead     | 269.6933     | 30.33        | 0    | 1       | 80        | 120        | 4x rule      | Yes        |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID     | Sample Type | Analyte   | Orig. Result | Spike Amount | Rec. | Dil Fac | Low Limit | High Limit | Sample Qual. | REPORTABLE |
|-----------|---------------|-------------|-----------|--------------|--------------|------|---------|-----------|------------|--------------|------------|
| SW6010B_S | ATSS-SP-01-06 | MS          | Thallium  | 7.2361       | 30.33        | 70.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Antimony  | 3.4239       | 22.42        | 18.9 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Arsenic   | 55.6628      | 22.42        | 79.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Barium    | 135.4188     | 448.45       | 75.1 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Beryllium | 0.5497       | 11.19        | 75.1 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Copper    | 293.7875     | 55.69        | 64.2 | 1       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Lead      | 178.8365     | 22.42        | 988  | 5       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Nickel    | 5781.5462    | 111.87       | 0    | 5       | 80        | 120        | 4x rule      | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Selenium  | 5.0567       | 22.42        | 75.6 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Silver    | <0.0190      | 55.69        | 67.2 | 1       | 75        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Thallium  | 4.7688       | 22.42        | 73.7 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Vanadium  | 38.1704      | 111.87       | 72.8 | 1       | 80        | 120        | J Flag       | Yes        |
| SW6010B_S | ATSS-SP-10-02 | MS          | Zinc      | 197.1746     | 111.87       | 44   | 1       | 80        | 120        | J Flag       | Yes        |

| Method    | Sample ID      | Sample Type | Analyte  | RPD   | RPD Limit | Sample Qual. |
|-----------|----------------|-------------|----------|-------|-----------|--------------|
| SW6010B_S | ATSS-EPR-03-02 | DUP         | Antimony | 200.0 | 20.0      | J Flag       |
| SW6010B_S | ATSS-ID-02-04  | DUP         | Antimony | 121.1 | 20.0      | J Flag       |
| SW6010B_S | ATSS-SP-01-06  | DUP         | Antimony | 65    | 20        | J Flag       |
| SW6010B_S | ATSS-SP-10-02  | DUP         | Antimony | 119.5 | 20.0      | J Flag       |
| SW6010B_S | ATSS-ID-02-04  | DUP         | Arsenic  | 62.6  | 20.0      | J Flag       |
| SW6010B_S | ATSS-SP-01-06  | DUP         | Arsenic  | 61    | 20        | J Flag       |
| SW6010B_S | ATSS-SP-10-02  | DUP         | Arsenic  | 47.0  | 20.0      | J Flag       |
| SW6010B_S | ATSS-EPR-03-02 | DUP         | Barium   | 21.5  | 20.0      | J Flag       |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method        | Sample ID      | Sample Type | Analyte   | RPD  | RPD Limit | Sample Qual. |
|---------------|----------------|-------------|-----------|------|-----------|--------------|
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Barium    | 42.9 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Barium    | 74   | 20        | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Beryllium | 46   | 20        | J Flag       |
| SW6010B_<br>S | ATSS-EPR-03-02 | DUP         | Cadmium   | 20.6 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Cadmium   | 72.2 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Cadmium   | 78   | 20        | J Flag       |
| SW6010B_<br>S | ATSS-SP-10-02  | DUP         | Cadmium   | 48.1 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Chromium  | 35   | 20        | J Flag       |
| SW6010B_<br>S | ATSS-SP-10-02  | DUP         | Chromium  | 52.6 | 20.0      | Diluted Out  |
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Cobalt    | 45.2 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Cobalt    | 25   | 20        | J Flag       |
| SW6010B_<br>S | ATSS-SP-10-02  | DUP         | Cobalt    | 24.1 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Copper    | 55.0 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-ID-06-04  | DUP         | Copper    | 59.0 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-EPR-03-02 | DUP         | Lead      | 27.9 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-GS-07-3.5 | DUP         | Lead      | 52.5 | 20.0      | Diluted Out  |
| SW6010B_<br>S | ATSS-ID-06-04  | DUP         | Lead      | 40.4 | 20.0      | Diluted Out  |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method        | Sample ID      | Sample Type | Analyte  | RPD   | RPD Limit | Sample Qual. |
|---------------|----------------|-------------|----------|-------|-----------|--------------|
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Lead     | 61    | 20        | J Flag       |
| SW6010B_<br>S | ATSS-SP-10-02  | DUP         | Lead     | 25.0  | 20.0      | Diluted Out  |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Nickel   | 22    | 20        | J Flag       |
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Selenium | 200.0 | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-ID-06-04  | DUP         | Selenium | 43.1  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-10-02  | DUP         | Selenium | 22.9  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-EPR-03-02 | DUP         | Thallium | 58.8  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Thallium | 41    | 20        | J Flag       |
| SW6010B_<br>S | ATSS-EPR-03-02 | DUP         | Vanadium | 53.1  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Vanadium | 23.9  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Vanadium | 30    | 20        | J Flag       |
| SW6010B_<br>S | ATSS-ID-02-04  | DUP         | Zinc     | 45.0  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-ID-06-04  | DUP         | Zinc     | 20.6  | 20.0      | J Flag       |
| SW6010B_<br>S | ATSS-SP-01-06  | DUP         | Zinc     | 45    | 20        | J Flag       |
| SW6010B_<br>S | ATSS-SP-10-02  | DUP         | Zinc     | 44.8  | 20.0      | J Flag       |
| SW7471A       | ATSS-ID-02-04  | DUP         | Mercury  | 32.5  | 20.0      | J Flag       |
| SW7471A       | ATSS-ID-06-04  | DUP         | Mercury  | 29.1  | 20.0      | J Flag       |
| SW7471A       | ATSS-NP-16-06  | DUP         | Mercury  | 27    | 20        | J Flag       |



|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID     | Sample Type | Analyte | RPD  | RPD Limit | Sample Qual. |
|-----------|---------------|-------------|---------|------|-----------|--------------|
| SW9012B_S | ATSS-ID-02-04 | DUP         | Cyanide | 42.1 | 20.0      | J Flag       |

**Table 5 - List LCS Recoveries outside Control Limits**

| Method        | Sample ID  | Analyte                    | Rec. | Low Limit | High Limit | No. of Affected Samples | Samp Qual |
|---------------|------------|----------------------------|------|-----------|------------|-------------------------|-----------|
| SW8082_S      | LCSD-31368 | Aroclor-1016               | 64.2 | 68.6      | 117        | 1                       | J Flag    |
| SW8260B_25_W  | LCS-31210  | 4-Isopropyltoluene         | 119  | 84        | 116        | 6                       | J Flag    |
| SW8260B_25_W  | LCS-31210  | n-Butylbenzene             | 118  | 82        | 117        | 6                       | J Flag    |
| SW8260B_25_W  | LCS-31210  | sec-Butylbenzene           | 118  | 80        | 116        | 6                       | J Flag    |
| SW8260B_25_W  | LCSD-31210 | 4-Isopropyltoluene         | 118  | 84        | 116        | 6                       | J Flag    |
| SW8260B_MED_S | LCS-31279  | 1,4-Dioxane                | 43   | 70        | 130        | 2                       | J Flag    |
| SW8270C_S     | LCS-31100  | 4-Nitroaniline             | 33.7 | 35        | 115        | 44                      | J Flag    |
| SW8270C_S     | LCS-31100  | Benzaldehyde               | 22.9 | 50        | 150        | 44                      | J Flag    |
| SW8270C_S     | LCS-31259  | 2,4-Dinitrophenol          | 0    | 15        | 130        | 2                       | J Flag    |
| SW8270C_S     | LCS-31259  | 4,6-Dinitro-2-methylphenol | 2.7  | 30        | 135        | 2                       | J Flag    |
| SW8270C_S     | LCS-31259  | 4-Nitroaniline             | 26.6 | 35        | 115        | 2                       | J Flag    |
| SW8270C_S     | LCS-31259  | Benzaldehyde               | 20.2 | 50        | 150        | 2                       | J Flag    |
| SW8270C_S     | LCS-31259  | Chrysene                   | 117  | 55        | 110        | 2                       | J Flag    |
| SW8270C_S     | LCSD-31259 | 2,4-Dinitrophenol          | 0    | 15        | 130        | 2                       | J Flag    |
| SW8270C_S     | LCSD-31259 | 4,6-Dinitro-2-methylphenol | 2.33 | 30        | 135        | 2                       | J Flag    |
| SW8270C_S     | LCSD-31259 | 4-Nitroaniline             | 26.9 | 35        | 115        | 2                       | J Flag    |
| SW8270C_S     | LCSD-31259 | Anthracene                 | 106  | 55        | 105        | 2                       | J Flag    |
| SW8270C_S     | LCSD-31259 | Benzaldehyde               | 20.9 | 50        | 150        | 2                       | J Flag    |
| SW8270C_S     | LCSD-      | Chrysene                   | 118  | 55        | 110        | 2                       | J Flag    |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID  | Analyte                   | Rec. | Low Limit | High Limit | No. of Affected Samples | Samp Qual |
|-----------|------------|---------------------------|------|-----------|------------|-------------------------|-----------|
|           | 31259      |                           |      |           |            |                         |           |
| SW8270C_S | LCSD-31259 | Di-n-butylphthalate       | 111  | 55        | 110        | 2                       | J Flag    |
| SW8270C_S | LCSD-31259 | Nitrobenzene-d5           | 103  | 35        | 100        | 2                       | J Flag    |
| SW8270C_W | LCS-31233  | 4-Nitrophenol             | 140  | 0         | 125        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Benzaldehyde              | 169  | 50        | 150        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Benzo(k)fluoranthene      | 136  | 45        | 125        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Chrysene                  | 112  | 55        | 110        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Di-n-butylphthalate       | 117  | 55        | 115        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Hexachlorocyclopentadiene | 25.2 | 27        | 147        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Isophorone                | 111  | 50        | 110        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Nitrobenzene              | 116  | 45        | 110        | 6                       | J Flag    |
| SW8270C_W | LCS-31233  | Nitrobenzene-d5           | 115  | 40        | 110        | 6                       | J Flag    |
| SW8270C_W | LCSD-31233 | 2,4-Dimethylphenol        | 19.5 | 30        | 110        | 6                       | J Flag    |
| SW8270C_W | LCSD-31233 | 4-Nitrophenol             | 135  | 0         | 125        | 6                       | J Flag    |
| SW8270C_W | LCSD-31233 | Benzaldehyde              | 159  | 50        | 150        | 6                       | J Flag    |
| SW8270C_W | LCSD-31233 | Hexachlorocyclopentadiene | 21.6 | 27        | 147        | 6                       | J Flag    |
| SW8270C_W | LCSD-31233 | Nitrobenzene              | 112  | 45        | 110        | 6                       | J Flag    |
| SW8270C_W | LCSD-31233 | Nitrobenzene-d5           | 111  | 40        | 110        | 6                       | J Flag    |

**Table 6 –Samples that were Reanalyzed**

| Sample ID      | Lab ID    | Method    | Sample Type | Action                     |
|----------------|-----------|-----------|-------------|----------------------------|
| ATSS-EPA-05-09 | F0934-14A | SW8270C_S | SAMP        | Report, add J and UJ flags |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Sample ID      | Lab ID     | Method    | Sample Type | Action                      |
|----------------|------------|-----------|-------------|-----------------------------|
| ATSS-EPA-05-09 | F0934-14AD | SW8270C_S | DL          | Report for E flag data only |
| ATSS-EPA-01-03 | F0934-16A  | SW8270C_S | SAMP        | Report, add J and UJ flags  |
| ATSS-EPA-01-03 | F0934-16A  | SW8082_S  | SAMP        | Report, add J and UJ flags  |
| ATSS-EPA-01-03 | F0934-16AD | SW8270C_S | DL          | Report for E flag data only |
| ATSS-EPA-01-03 | F0934-16AR | SW8082_S  | RE          | Do Not Report               |
| ATSS-WS-05     | F0958-06B  | SW8270C_W | SAMP        | Report, add J and UJ flags  |
| ATSS-WS-05     | F0958-06BD | SW8270C_W | DL          | Report for E flag data only |

**Table 7 – Summary of Field Duplicate Results**

| Analyte   | Unit  | PQL | Anal Type | ATSS-WPA-05-02D | ATSS-WPA-05-02 | RPD   | RPD Rating | Samp Qual |
|-----------|-------|-----|-----------|-----------------|----------------|-------|------------|-----------|
| Cyanide   | mg/Kg | A   | 1.5       | 0.19            | NA             | NC    |            |           |
| Mercury   | mg/Kg | A   | 0.044     | 0.081           | 0.060          | 29.8% | Good       | None      |
| Antimony  | mg/Kg | A   | 1.2       | ND              | NA             | NC    |            |           |
| Arsenic   | mg/Kg | A   | 1.2       | 7.0             | 5.1            | 31.4% | Good       | None      |
| Barium    | mg/Kg | A   | 9.9       | 228             | 212            | 7.3%  | Good       | None      |
| Beryllium | mg/Kg | A   | 0.37      | 1.1             | 0.79           | 32.8% | Good       | None      |
| Cadmium   | mg/Kg | A   | 0.37      | 0.52            | 0.78           | 40.0% | Good       | None      |
| Chromium  | mg/Kg | A   | 56        | 26.1            | 22.5           | 14.8% | Good       | None      |
| Cobalt    | mg/Kg | A   | 3.1       | 8.7             | 9.3            | 6.7%  | Good       | None      |
| Copper    | mg/Kg | A   | 1.8       | 13.9            | 21.0           | 40.7% | Good       | None      |
| Lead      | mg/Kg | A   | 53        | 15.8            | 12.3           | 24.9% | Good       | None      |
| Nickel    | mg/Kg | A   | 3.1       | 23.3            | 29.8           | 24.5% | Good       | None      |
| Selenium  | mg/Kg | A   | 1.8       | 3.5             | 3.1            | 12.1% | Good       | None      |

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|          |       |   |     |      |      |       |      |      |
|----------|-------|---|-----|------|------|-------|------|------|
| Silver   | mg/Kg | A | 1.8 | ND   | NA   | NC    |      |      |
| Thallium | mg/Kg | A | 1.2 | 3.0  | 2.6  | 14.3% | Good | None |
| Vanadium | mg/Kg | A | 3.1 | 36.0 | 34.2 | 5.1%  | Good | None |
| Zinc     | mg/Kg | A | 3.1 | 93.7 | 77.0 | 19.6% | Good | None |

| Analyte   | Unit  | PQL | Anal Type | ATSS-WPA-04-02D | ATSS-WPA-04-02 | RPD   | RPD Rating | Samp Qual |
|-----------|-------|-----|-----------|-----------------|----------------|-------|------------|-----------|
| Cyanide   | mg/Kg | A   | 1.5       | NA              | NA             | NC    |            |           |
| Mercury   | mg/Kg | A   | 0.044     | 0.043           | 0.021          | 68.8% | Good       | None      |
| Antimony  | mg/Kg | A   | 1.2       | NA              | NA             | NC    |            |           |
| Arsenic   | mg/Kg | A   | 1.2       | 3.9             | 3.2            | 19.7% | Good       | None      |
| Barium    | mg/Kg | A   | 9.5       | 85.3            | 42.1           | 67.8% | Good       | None      |
| Beryllium | mg/Kg | A   | 0.37      | 0.52            | 0.36           | 36.4% | Good       | None      |
| Cadmium   | mg/Kg | A   | 0.37      | 0.50            | 0.28           | 56.4% | Good       | None      |
| Chromium  | mg/Kg | A   | 56        | 15.3            | 11.4           | 29.2% | Good       | None      |
| Cobalt    | mg/Kg | A   | 3.1       | 6.0             | 4.7            | 24.3% | Good       | None      |
| Copper    | mg/Kg | A   | 1.8       | 10.5            | 10.2           | 2.9%  | Good       | None      |
| Lead      | mg/Kg | A   | 53        | 14.8            | 9.1            | 47.7% | Good       | None      |
| Nickel    | mg/Kg | A   | 3.1       | 14.0            | 12.7           | 9.7%  | Good       | None      |
| Selenium  | mg/Kg | A   | 1.8       | 3.0             | NA             | NC    |            |           |
| Silver    | mg/Kg | A   | 1.8       | NA              | NA             | NC    |            |           |
| Thallium  | mg/Kg | A   | 1.2       | 2.1             | 1.8            | 15.4% | Good       | None      |
| Vanadium  | mg/Kg | A   | 3.1       | 26.9            | 16.7           | 46.8% | Good       | None      |
| Zinc      | mg/Kg | A   | 3.1       | 66.1            | 40.5           | 48.0% | Good       | None      |

Key:

A = Analyte

NC = Not Calculated

ND = Not Detected

PQL = Practical Quantitation Limit

RPD = Relative Percent Difference

T = Tentatively Identified Compound

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>   | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: August 13, 2007</b> | <b>Completed by: B. Krajewski</b> |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per NYSDEC Division of Environmental Remediation Guidance for the Development of DUSRs (June 1999). Specific criteria for QC limits were obtained from the project QAPP. Compliance with the project QA program is indicated on the in the checklist and tables. Any major or minor concerns affected data usability are summarized listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

**Table 1 Sample Summary Tables from Electronic Data Deliverable**

| <b>ProjectID</b> | <b>Lab Work Order</b> |
|------------------|-----------------------|
| Al Tech Steel    | F1091                 |
| Al Tech Steel    | F1092                 |
| Al Tech Steel    | F1093                 |
| Al Tech Steel    | F1094                 |

**Work Orders, Tests and Number of Samples included in this DUSR**

| <b>Work Order</b> | <b>Matrix</b> | <b>Sample ID</b> | <b>Lab ID</b> | <b>Sample Date</b> | <b>Lab QC</b> | <b>MS/MSD</b> | <b>ID Corrections</b> |
|-------------------|---------------|------------------|---------------|--------------------|---------------|---------------|-----------------------|
| F1091             | Aqueous       | ATSS-SP-01-06    | F1091-01A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-SP-02-05    | F1091-02A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-02-1.5   | F1091-03A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-SP-04-2.5   | F1091-04A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-03-04    | F1091-05A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-04-01    | F1091-06A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-05-1.5   | F1091-07A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-05-1.5-D | F1091-08A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-07-03    | F1091-09A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-08-1.5   | F1091-10A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-09-1.5   | F1091-11A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-SP-07-03    | F1091-12A     |                    | MS/MSD *      |               | None                  |
| F1091             | Aqueous       | ATSS-SP-06-02    | F1091-13A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-06-1.5   | F1091-14A     |                    |               |               | None                  |
| F1091             | Aqueous       | ATSS-NP-15-02    | F1091-15A     |                    |               |               | None                  |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Work Order | Matrix  | Sample ID       | Lab ID    | Sample Date | Lab QC   | MS/MSD | ID Corrections |
|------------|---------|-----------------|-----------|-------------|----------|--------|----------------|
| F1091      | Aqueous | ATSS-NP-14-02   | F1091-16A |             |          |        | None           |
| F1091      | Aqueous | ATSS-ID-13-02   | F1091-17A |             |          |        | None           |
| F1091      | Aqueous | ATSS-NP-16-06   | F1091-18A |             |          |        | None           |
| F1092      | Aqueous | ATSS-NP-18-1.5  | F1092-01A |             |          |        | None           |
| F1092      | Aqueous | ATSS-NP-19-1.5  | F1092-02A |             |          |        | None           |
| F1092      | Aqueous | ATSS-NP-22-02   | F1092-03A |             |          |        | None           |
| F1092      | Aqueous | ATSS-NP-23-03   | F1092-04A |             | MS/MSD * |        | None           |
| F1092      | Aqueous | ATSS-EPR-02-1.5 | F1092-05A |             |          |        | None           |
| F1092      | Aqueous | ATSS-EPA-04-09  | F1092-06A |             |          |        | None           |
| F1092      | Aqueous | ATSS-EPA-05-09  | F1092-07A |             |          |        | None           |
| F1092      | Aqueous | ATSS-EPA-01-03  | F1092-08A |             |          |        | None           |
| F1092      | Aqueous | ATSS-NP-21-02   | F1092-09A |             |          |        | None           |
| F1092      | Aqueous | ATSS-SP-14-05   | F1092-10A |             |          |        | None           |
| F1092      | Aqueous | ATSS-SP-12-01   | F1092-11A |             |          |        | None           |
| F1092      | Aqueous | ATSS-SP-08-1.5  | F1092-12A |             |          |        | None           |
| F1092      | Aqueous | ATSS-SP-16-0.6  | F1092-13A |             |          |        | None           |
| F1092      | Aqueous | ATSS-SP-10-02   | F1092-14A |             |          |        | None           |
| F1092      | Aqueous | ATSS-SP-13-04   | F1092-15A |             |          |        | None           |
| F1092      | Aqueous | ATSS-BM-NW-EPR  | F1092-16A |             |          |        | None           |
| F1092      | Aqueous | ATSS-BM-SW-EPA  | F1092-17A |             |          |        | None           |
| F1093      | Aqueous | ATSS-WPA-03-0.6 | F1093-01A |             | MS/MSD * |        | None           |
| F1093      | Aqueous | ATSS-WPR-01-01  | F1093-02A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-01-05   | F1093-03A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-02-05   | F1093-04A |             |          |        | None           |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Work Order | Matrix  | Sample ID       | Lab ID    | Sample Date | Lab QC   | MS/MSD | ID Corrections |
|------------|---------|-----------------|-----------|-------------|----------|--------|----------------|
| F1093      | Aqueous | ATSS-GS-01-05D  | F1093-05A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-03-07   | F1093-06A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-04-01   | F1093-07A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-05-04   | F1093-08A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-06-3.5  | F1093-09A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-07-3.5  | F1093-10A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-08-4.5  | F1093-11A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-09-03   | F1093-12A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-11-04   | F1093-13A |             | MS/MSD * |        | None           |
| F1093      | Aqueous | ATSS-GS-12-4.5  | F1093-14A |             |          |        | None           |
| F1093      | Aqueous | ATSS-GS-12-4.5D | F1093-15A |             |          |        | None           |
| F1093      | Aqueous | ATSS-ID-01-04   | F1093-16A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-02-04   | F1094-01A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-03-04   | F1094-02A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-07-3.5  | F1094-03A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-07-3.5D | F1094-04A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-06-04   | F1094-05A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-05-02   | F1094-06A |             | MS/MSD * |        | None           |
| F1094      | Aqueous | ATSS-ID-04-03   | F1094-07A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-10-4.5  | F1094-08A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-14-2.5  | F1094-09A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-15-03   | F1094-10A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-16-0.6  | F1094-11A |             |          |        | None           |
| F1094      | Aqueous | ATSS-ID-10-0.6  | F1094-12A |             |          |        | None           |



|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Work Order | Matrix  | Sample ID       | Lab ID    | Sample Date | Lab QC | MS/MSD | ID Corrections |
|------------|---------|-----------------|-----------|-------------|--------|--------|----------------|
| F1094      | Aqueous | ATSS-NP-11-01   | F1094-13A |             |        |        | None           |
| F1094      | Aqueous | ATSS-NP-12-10.5 | F1094-14A |             |        |        | None           |
| F1094      | Aqueous | ATSS-NP-13-05D  | F1094-15A |             |        |        | None           |

| Work Orders | Matrix  | Test Method | Method Name    | Number of Samples | Sample Type |
|-------------|---------|-------------|----------------|-------------------|-------------|
| F1091       | Aqueous | SW6010B_W   | Metals by ICP  | 18                | SAMP        |
| F1091       | Aqueous | SW7470A     | Mercury by FIA | 18                | SAMP        |
| F1092       | Aqueous | SW6010B_W   | Metals by ICP  | 17                | SAMP        |
| F1092       | Aqueous | SW7470A     | Mercury by FIA | 17                | SAMP        |
| F1093       | Aqueous | SW6010B_W   | Metals by ICP  | 16                | SAMP        |
| F1093       | Aqueous | SW7470A     | Mercury by FIA | 16                | SAMP        |
| F1094       | Aqueous | SW6010B_W   | Metals by ICP  | 15                | SAMP        |
| F1094       | Aqueous | SW7470A     | Mercury by FIA | 15                | SAMP        |

#### General Sample Information

|                                                                                                                                                                             |                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form?                                                                                                      | Yes - TCLP requested 8/8/07                                                                                                                                 |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?                                                              | No – Metals samples collected on 7/10/07 were shipped without ice and received at 24°C. Sample ATSS-WPR-01-01 included in that delivery. No impact on TCLP. |
| Frequency of Field QC Samples Correct?<br>Field Duplicate - 1/20 samples<br>Trip Blank - Every cooler with VOCs waters only<br>Equipment Blank - 1/ set of samples per day? | Yes – Field duplicates included.<br>Equipment and trip blank not required.                                                                                  |
| All ASP Forms complete?                                                                                                                                                     | Yes                                                                                                                                                         |
| Case narrative present and complete?                                                                                                                                        | Yes                                                                                                                                                         |
| Any holding time violations (See table below)?                                                                                                                              | No                                                                                                                                                          |

Insert Holding time table below.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria.

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: Al Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

| <b>Metals by ICP and Mercury by CVAA</b>                                                                                                                                         |                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                                                                               | <b>Notes and Qualifiers</b>                                                                 |
| Any compounds present in method and field blanks as noted on Table 2?                                                                                                            | Yes – Compounds detected in TCLP extraction blanks and method digestion blanks.             |
| For samples, if results are <5 times the blank then "U" flag data.                                                                                                               | Samples are flagged U as noted on Table 2a for method blanks and Table 2b for field blanks. |
| Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?                                                                                  | Yes                                                                                         |
| MS/MSD within QC criteria (see Table 4)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated. | Yes                                                                                         |
| Were elements recovered $\leq 30\%$ ? If so, "R" flag associated NDs on Form 1's.                                                                                                | No                                                                                          |
| LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.                                             | Yes                                                                                         |
| Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".                                                                                          | Yes – Cadmium results for SDG 1091 and lead results for SDG 1093 qualified "J".             |
| Spot check ICS recoveries 80-120%. Contact lab.                                                                                                                                  | All are acceptable.                                                                         |
| Spot check ICV 95-105%. Contact lab.                                                                                                                                             | All are acceptable.                                                                         |
| Spot check CCV 90-110% or 80-120% for Hg. Contact lab.                                                                                                                           | All are acceptable.                                                                         |
| Do field duplicate results show good precision for all compounds (see Table 7)?                                                                                                  | Yes                                                                                         |

| <b>Summary of Potential Impacts on Data Usability</b>                                                      |
|------------------------------------------------------------------------------------------------------------|
| <b>Major Concerns</b>                                                                                      |
| Very poor lead reproducibility between field duplicates.                                                   |
| <b>Minor Concerns</b>                                                                                      |
| Results qualified based on method (digestion and extraction) blank results and field duplicate RPD values. |
| Cadmium and lead results qualified based on serial dilution results.                                       |
| Samples required analysis at dilutions for lead due to levels present.                                     |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

**Table 2 - List of Positive Results for Blank Samples**

| Method    | Sample ID | Samp Type | Analyte  | Result | Qual | Anal Type | Units | MDL   | PQL     |
|-----------|-----------|-----------|----------|--------|------|-----------|-------|-------|---------|
| SW6010B_W | MB-31631  | MBLK      | Cadmium  | 0.105  | B    | A         | µg/L  | 0.100 | 5.000   |
| SW6010B_W | MB-31631  | MBLK      | Chromium | 0.809  | B    | A         | µg/L  | 0.380 | 20.000  |
| SW6010B_W | MB-31631  | MBLK      | Lead     | 1.594  | B    | A         | µg/L  | 0.46  | 10      |
| SW6010B_W | MB-31631  | MBLK      | Selenium | 10.345 | B    | A         | µg/L  | 0.980 | 30.000  |
| SW6010B_W | MB-31631  | MBLK      | Silver   | 2.152  | B    | A         | µg/L  | 0.910 | 30.000  |
| SW6010B_W | MB-31676  | MBLK      | Chromium | 0.798  | B    | A         | µg/L  | 0.380 | 20.000  |
| SW6010B_W | MB-31676  | MBLK      | Lead     | 0.612  | B    | A         | µg/L  | 0.46  | 10      |
| SW6010B_W | MB-31676  | MBLK      | Selenium | 9.729  | B    | A         | µg/L  | 0.980 | 30.000  |
| SW6010B_W | MB-31684  | MBLK      | Barium   | 5.066  | B    | A         | µg/L  | 2.100 | 200.000 |
| SW6010B_W | MB-31684  | MBLK      | Cadmium  | 0.158  | B    | A         | µg/L  | 0.100 | 5.000   |
| SW6010B_W | MB-31684  | MBLK      | Chromium | 0.695  | B    | A         | µg/L  | 0.380 | 20.000  |
| SW6010B_W | MB-31684  | MBLK      | Lead     | 1.815  | B    | A         | µg/L  | 0.460 | 10.000  |
| SW6010B_W | MB-31684  | MBLK      | Selenium | 7.080  | B    | A         | µg/L  | 0.980 | 30.000  |
| SW6010B_W | MB-31705  | MBLK      | Chromium | 0.609  | B    | A         | µg/L  | 0.380 | 20.000  |
| SW6010B_W | MB-31705  | MBLK      | Lead     | 1.171  | J    | A         | µg/L  | 0.46  | 10      |
| SW6010B_W | MB-31705  | MBLK      | Selenium | 5.699  | B    | A         | µg/L  | 0.980 | 30.000  |
| SW6010B_W | MB-31705  | MBLK      | Silver   | 1.091  | B    | A         | µg/L  | 0.910 | 30.000  |
| SW6010B_W | MB-31706  | MBLK      | Chromium | 0.705  | B    | A         | µg/L  | 0.380 | 20.000  |
| SW6010B_W | MB-31706  | MBLK      | Lead     | 0.4983 | J    | A         | µg/L  | 0.46  | 10      |
| SW6010B_W | MB-31706  | MBLK      | Selenium | 7.730  | B    | A         | µg/L  | 0.980 | 30.000  |
| SW6010B_W | MB-31714  | MBLK      | Barium   | 4.347  | B    | A         | µg/L  | 2.100 | 200.000 |
| SW6010B_W | MB-31714  | MBLK      | Chromium | 0.974  | B    | A         | µg/L  | 0.380 | 20.000  |
| SW6010B_W | MB-31714  | MBLK      | Lead     | 5.383  | B    | A         | µg/L  | 0.46  | 10      |
| SW6010B_W | MB-31714  | MBLK      | Selenium | 12.530 | B    | A         | µg/L  | 0.980 | 30.000  |
| SW6010B_W | MB-31764  | MBLK      | Chromium | 0.496  | B    | A         | µg/L  | 0.380 | 20.000  |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Sample ID | Samp Type | Analyte | Result | Qual | Anal Type | Units | MDL  | PQL |
|-----------|-----------|-----------|---------|--------|------|-----------|-------|------|-----|
| SW6010B_W | MB-31764  | MBLK      | Lead    | 1.206  | J    | A         | µg/L  | 0.46 | 10  |

**Table 2A - List of Samples Qualified for Method Blank Contamination**

| Method    | Lab Blank | Matrix  | Analyte | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|---------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 0.29          | BE       | 5.0 | ATSS-ID-13-02    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 0.47          | BE       | 5.0 | ATSS-NP-09-1.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 0.65          | BE       | 5.0 | ATSS-SP-01-06    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 0.91          | BE       | 5.0 | ATSS-NP-07-03    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 0.98          | BE       | 5.0 | ATSS-SP-02-05    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 1.2           | BE       | 5.0 | ATSS-NP-15-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 1.4           | BE       | 5.0 | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 2.7           | BE       | 5.0 | ATSS-NP-16-06    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 3.9           | BE       | 5.0 | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 4.1           | BE       | 5.0 | ATSS-NP-14-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 4.5           | BE       | 5.0 | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium | 0.105        | 4.8           | BE       | 5.0 | ATSS-NP-04-01    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31631  | Aqueous | Cadmium  | 0.105        | 10.5          | E        | 5.0 | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium  | 0.105        | 14.0          | E        | 5.0 | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium  | 0.105        | 6.0           | E        | 5.0 | ATSS-SP-06-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Cadmium  | 0.105        | 8.4           | E        | 5.0 | ATSS-SP-07-03    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 106           |          | 20  | ATSS-NP-07-03    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 212           |          | 20  | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 24.4          |          | 20  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 344           |          | 20  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 96.2          |          | 20  | ATSS-ID-13-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 0.93          | B        | 20  | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 0.95          | B        | 20  | ATSS-SP-02-05    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 0.96          | B        | 20  | ATSS-NP-02-1.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 1.9           | B        | 20  | ATSS-SP-01-06    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 13.8          | B        | 20  | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 15.9          | B        | 20  | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 2.7           | B        | 20  | ATSS-SP-06-02    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 4.0           | B        | 20  | ATSS-NP-14-02    | U Flag        |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 4.2           | B        | 20   | ATSS-NP-16-06    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 4.5           | B        | 20   | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Chromium | 0.809        | 4.6           | B        | 20   | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 10.4          |          | 10   | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 101           |          | 10   | ATSS-NP-15-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 1160          |          | 30   | ATSS-SP-07-03    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 13.6          |          | 10   | ATSS-SP-06-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 1310          |          | 30   | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 135           |          | 10   | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 16100         |          | 200  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 18300         |          | 200  | ATSS-SP-01-06    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 191           |          | 10   | ATSS-SP-02-05    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 252           |          | 10   | ATSS-NP-14-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 37.0          |          | 10   | ATSS-ID-13-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 381000        |          | 5000 | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 56.1          |          | 10   | ATSS-NP-16-06    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 609           |          | 10   | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 763           |          | 10   | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 774           |          | 10   | ATSS-NP-07-03    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 77900         |          | 1000 | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Lead     | 1.594        | 99.5          |          | 10   | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 11.0          | B        | 30   | ATSS-SP-07-03    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 12.9          | B        | 30   | ATSS-SP-02-05    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 13.4          | B        | 30   | ATSS-NP-05-1.5-D | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 16.4          | B        | 30   | ATSS-SP-06-02    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 16.6          | B        | 30   | ATSS-NP-03-04    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 19.3          | B        | 30   | ATSS-NP-09-1.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 20.8          | B        | 30   | ATSS-NP-04-01    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 21.4          | B        | 30   | ATSS-SP-01-06    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 21.8          | B        | 30   | ATSS-NP-02-1.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 23.7          | B        | 30   | ATSS-NP-06-1.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 25.6          | B        | 30   | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Selenium | 10.345       | 26.4          | B        | 30   | ATSS-NP-07-03    | U Flag        |



|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix      | Analyte | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|-------------|---------|--------------|---------------|----------|-----|------------------|---------------|
|           |           | S           |         |              |               |          |     |                  |               |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 30.6          |          | 30  | ATSS-ID-13-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 40.6          |          | 30  | ATSS-NP-14-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 48.2          |          | 30  | ATSS-NP-15-02    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 49.9          |          | 30  | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 54.1          |          | 30  | ATSS-NP-16-06    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 61.9          |          | 30  | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 10.1          | B        | 30  | ATSS-NP-02-1.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 13.3          | B        | 30  | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 14.0          | B        | 30  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 18.9          | B        | 30  | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 21.9          | B        | 30  | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 26.1          | B        | 30  | ATSS-SP-07-03    | Not Qualified |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 3.4           | B        | 30  | ATSS-SP-06-02    | U Flag        |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 3.7           | B        | 30  | ATSS-SP-01-06    | U Flag        |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 4.5           | B        | 30  | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_W | MB-31631  | Aqueou<br>S | Silver  | 2.152        | 4.8           | B        | 30  | ATSS-SP-02-05    | U Flag        |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31631  | Aqueous | Silver   | 2.152        | 5.9           | B        | 30  | ATSS-NP-07-03    | U Flag        |
| SW6010B_W | MB-31631  | Aqueous | Silver   | 2.152        | 8.3           | B        | 30  | ATSS-NP-04-01    | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 236           |          | 20  | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 48.4          |          | 20  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 59.1          |          | 20  | ATSS-BM-NW-EPR   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 70.7          |          | 20  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 77.9          |          | 20  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 82.1          |          | 20  | ATSS-BM-SW-EPA   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 1.9           | B        | 20  | ATSS-EPA-04-09   | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 13.3          | B        | 20  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 14.5          | B        | 20  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 2.1           | B        | 20  | ATSS-NP-21-02    | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 3.0           | B        | 20  | ATSS-SP-16-0.6   | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 4.9           | B        | 20  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 5.5           | B        | 20  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 6.1           | B        | 20  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 7.6           | B        | 20  | ATSS-SP-12-01    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
|           |           | S       |          |              |               |          |     |                  |               |
| SW6010B_W | MB-31676  | Aqueous | Chromium | 0.798        | 9.6           | B        | 20  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 101           |          | 10  | ATSS-EPA-04-09   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 13.5          |          | 10  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 138           |          | 10  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 1460          |          | 30  | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 15.4          |          | 10  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 15.8          |          | 10  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 1680          |          | 30  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 200           |          | 10  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 22.5          |          | 10  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 26.7          |          | 10  | ATSS-BM-SW-EPA   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 31.5          |          | 10  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 40.6          |          | 10  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 809           |          | 10  | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 825           |          | 10  | ATSS-NP-21-02    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 2.9           | B        | 10  | ATSS-SP-08-1.5   | U Flag        |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 4.3           | B        | 10  | ATSS-BM-NW-EPR   | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Lead     | 0.612        | 4.4           | B        | 10  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 14.3          | B        | 30  | ATSS-EPA-01-03   | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 17.7          | B        | 30  | ATSS-NP-22-02    | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 18.2          | B        | 30  | ATSS-SP-16-0.6   | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 19.0          | B        | 30  | ATSS-NP-18-1.5   | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 21.4          | B        | 30  | ATSS-NP-19-1.5   | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 23.2          | B        | 30  | ATSS-NP-23-03    | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 25.2          | B        | 30  | ATSS-SP-10-02    | U Flag        |
| SW6010B_W | MB-31676  | Aqueous | Selenium | 9.729        | 3.2           | B        | 30  | ATSS-SP-12-01    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 1040          |          | 200 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 1060          |          | 200 | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 1140          |          | 200 | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 1380          |          | 200 | ATSS-GS-04-01    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 1820          |          | 200 | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 242           |          | 200 | ATSS-GS-09-03    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium   | 5.066        | 277           |          | 200 | ATSS-GS-11-04    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|---------|--------------|---------------|----------|-----|------------------|---------------|
|           |           | S       |         |              |               |          |     |                  |               |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 338           |          | 200 | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 508           |          | 200 | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 754           |          | 200 | ATSS-GS-02-05    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 795           |          | 200 | ATSS-GS-01-05    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 957           |          | 200 | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 975           |          | 200 | ATSS-GS-05-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 994           |          | 200 | ATSS-GS-03-07    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 141           | B        | 200 | ATSS-ID-01-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Barium  | 5.066        | 92.4          | B        | 200 | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 143           |          | 5.0 | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 16.0          |          | 5.0 | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 16.9          |          | 5.0 | ATSS-GS-09-03    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 35.8          |          | 5.0 | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 5.1           |          | 5.0 | ATSS-GS-04-01    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 5.3           |          | 5.0 | ATSS-GS-01-05    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium | 0.158        | 6.0           |          | 5.0 | ATSS-GS-03-07    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 65.5          |          | 5.0 | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 7.3           |          | 5.0 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 7.5           |          | 5.0 | ATSS-GS-05-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 0.20          | B        | 5.0 | ATSS-ID-01-04    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 0.31          | B        | 5.0 | ATSS-GS-11-04    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 0.39          | B        | 5.0 | ATSS-WPA-03-0.6  | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 0.68          | B        | 5.0 | ATSS-WPR-01-01   | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 1.9           | B        | 5.0 | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Cadmium  | 0.158        | 2.0           | B        | 5.0 | ATSS-GS-02-05    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 21.0          |          | 20  | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 32.2          |          | 20  | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 57.4          |          | 20  | ATSS-GS-03-07    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 671           |          | 20  | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 0.69          | B        | 20  | ATSS-GS-01-05    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 0.81          | B        | 20  | ATSS-GS-11-04    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 1.1           | B        | 20  | ATSS-GS-02-05    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 1.2           | B        | 20  | ATSS-ID-01-04    | U Flag        |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 1.5           | B        | 20   | ATSS-GS-06-3.5   | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 1.6           | B        | 20   | ATSS-GS-01-05D   | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 2.2           | B        | 20   | ATSS-GS-12-4.5D  | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 2.6           | B        | 20   | ATSS-GS-04-01    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 5.4           | B        | 20   | ATSS-GS-05-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Chromium | 0.695        | 6.3           | B        | 20   | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 110           | E        | 10   | ATSS-ID-01-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 110000        | E        | 2000 | ATSS-GS-08-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 114           | E        | 10   | ATSS-GS-05-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 131000        | E        | 2000 | ATSS-GS-01-05    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 1950          | E        | 30   | ATSS-GS-12-4.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 212           | E        | 10   | ATSS-GS-07-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 31400         | E        | 500  | ATSS-GS-12-4.5D  | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 399           | E        | 10   | ATSS-GS-04-01    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 40.8          | E        | 10   | ATSS-GS-09-03    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 413           | E        | 10   | ATSS-GS-03-07    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 480000        | E        | 5000 | ATSS-GS-06-3.5   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 492           | E        | 10   | ATSS-GS-01-05D   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 55.3          | E        | 10   | ATSS-GS-11-04    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 884           | E        | 10   | ATSS-WPA-03-0.6  | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 92.8          | E        | 10   | ATSS-WPR-01-01   | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Lead     | 1.815        | 94.9          | E        | 10   | ATSS-GS-02-05    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 117           |          | 30   | ATSS-GS-09-03    | Not Qualified |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 32.9          |          | 30   | ATSS-GS-03-07    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 1.9           | B        | 30   | ATSS-GS-08-4.5   | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 12.0          | B        | 30   | ATSS-ID-01-04    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 13.9          | B        | 30   | ATSS-GS-02-05    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 17.0          | B        | 30   | ATSS-WPA-03-0.6  | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 17.4          | B        | 30   | ATSS-GS-01-05D   | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 19.5          | B        | 30   | ATSS-GS-11-04    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 19.9          | B        | 30   | ATSS-GS-06-3.5   | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 24.3          | B        | 30   | ATSS-GS-01-05    | U Flag        |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 3.1           | B        | 30   | ATSS-GS-07-3.5   | U Flag        |



|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
|           |           | S       |          |              |               |          |     |                  |               |
| SW6010B_W | MB-31684  | Aqueous | Selenium | 7.08         | 6.3           | B        | 30  | ATSS-WPR-01-01   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 106           |          | 20  | ATSS-NP-07-03    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 212           |          | 20  | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 24.4          |          | 20  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 344           |          | 20  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 96.2          |          | 20  | ATSS-ID-13-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 0.93          | B        | 20  | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 0.95          | B        | 20  | ATSS-SP-02-05    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 0.96          | B        | 20  | ATSS-NP-02-1.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 1.9           | B        | 20  | ATSS-SP-01-06    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 13.8          | B        | 20  | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 15.9          | B        | 20  | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 2.7           | B        | 20  | ATSS-SP-06-02    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 4.0           | B        | 20  | ATSS-NP-14-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 4.2           | B        | 20  | ATSS-NP-16-06    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 4.5           | B        | 20  | ATSS-NP-05-1.5   | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_W | MB-31705  | Aqueous | Chromium | 0.609        | 4.6           | B        | 20   | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 10.4          |          | 10   | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 101           |          | 10   | ATSS-NP-15-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 1160          |          | 30   | ATSS-SP-07-03    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 13.6          |          | 10   | ATSS-SP-06-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 1310          |          | 30   | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 135           |          | 10   | ATSS-SP-04-2.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 16100         |          | 200  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 18300         |          | 200  | ATSS-SP-01-06    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 191           |          | 10   | ATSS-SP-02-05    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 252           |          | 10   | ATSS-NP-14-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 37.0          |          | 10   | ATSS-ID-13-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 381000        |          | 5000 | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 56.1          |          | 10   | ATSS-NP-16-06    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 609           |          | 10   | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 763           |          | 10   | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 774           |          | 10   | ATSS-NP-07-03    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 77900         |          | 1000 | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Lead     | 1.171        | 99.5          |          | 10   | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 11.0          | B        | 30   | ATSS-SP-07-03    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 12.9          | B        | 30   | ATSS-SP-02-05    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 13.4          | B        | 30   | ATSS-NP-05-1.5-D | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 16.4          | B        | 30   | ATSS-SP-06-02    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 16.6          | B        | 30   | ATSS-NP-03-04    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 19.3          | B        | 30   | ATSS-NP-09-1.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 20.8          | B        | 30   | ATSS-NP-04-01    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 21.4          | B        | 30   | ATSS-SP-01-06    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 21.8          | B        | 30   | ATSS-NP-02-1.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 23.7          | B        | 30   | ATSS-NP-06-1.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 25.6          | B        | 30   | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Selenium | 5.699        | 26.4          | B        | 30   | ATSS-NP-07-03    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 30.6          |          | 30   | ATSS-ID-13-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 40.6          |          | 30   | ATSS-NP-14-02    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 48.2          |          | 30  | ATSS-NP-15-02    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 49.9          |          | 30  | ATSS-NP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 54.1          |          | 30  | ATSS-NP-16-06    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 61.9          |          | 30  | ATSS-NP-05-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 10.1          | B        | 30  | ATSS-NP-02-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 13.3          | B        | 30  | ATSS-NP-09-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 14.0          | B        | 30  | ATSS-NP-06-1.5   | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 18.9          | B        | 30  | ATSS-NP-03-04    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 21.9          | B        | 30  | ATSS-NP-05-1.5-D | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 26.1          | B        | 30  | ATSS-SP-07-03    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 3.4           | B        | 30  | ATSS-SP-06-02    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 3.7           | B        | 30  | ATSS-SP-01-06    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 4.5           | B        | 30  | ATSS-SP-04-2.5   | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 4.8           | B        | 30  | ATSS-SP-02-05    | U Flag        |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 5.9           | B        | 30  | ATSS-NP-07-03    | Not Qualified |
| SW6010B_W | MB-31705  | Aqueous | Silver   | 1.091        | 8.3           | B        | 30  | ATSS-NP-04-01    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 236           |          | 20  | ATSS-NP-19-1.5   | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
|           |           | S       |          |              |               |          |     |                  |               |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 48.4          |          | 20  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 59.1          |          | 20  | ATSS-BM-NW-EPR   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 70.7          |          | 20  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 77.9          |          | 20  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 82.1          |          | 20  | ATSS-BM-SW-EPA   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 1.9           | B        | 20  | ATSS-EPA-04-09   | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 13.3          | B        | 20  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 14.5          | B        | 20  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 2.1           | B        | 20  | ATSS-NP-21-02    | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 3.0           | B        | 20  | ATSS-SP-16-0.6   | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 4.9           | B        | 20  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 5.5           | B        | 20  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 6.1           | B        | 20  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 7.6           | B        | 20  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Chromium | 0.705        | 9.6           | B        | 20  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 101           |          | 10  | ATSS-EPA-04-09   | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 13.5          |          | 10  | ATSS-SP-14-05    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 138           |          | 10  | ATSS-SP-13-04    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 1460          |          | 30  | ATSS-NP-19-1.5   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 15.4          |          | 10  | ATSS-SP-10-02    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 15.8          |          | 10  | ATSS-NP-23-03    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 1680          |          | 30  | ATSS-EPA-01-03   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 200           |          | 10  | ATSS-NP-18-1.5   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 22.5          |          | 10  | ATSS-EPA-05-09   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 26.7          |          | 10  | ATSS-BM-SW-EPA   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 31.5          |          | 10  | ATSS-NP-22-02    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 40.6          |          | 10  | ATSS-EPR-02-1.5  | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 809           |          | 10  | ATSS-SP-16-0.6   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 825           |          | 10  | ATSS-NP-21-02    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 2.9           | B        | 10  | ATSS-SP-08-1.5   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 4.3           | B        | 10  | ATSS-BM-NW-EPR   | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Lead     | 0.4983       | 4.4           | B        | 10  | ATSS-SP-12-01    | Not Qualified |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 14.3          | B        | 30  | ATSS-EPA-01-03   | U Flag        |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 17.7          | B        | 30   | ATSS-NP-22-02    | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 18.2          | B        | 30   | ATSS-SP-16-0.6   | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 19.0          | B        | 30   | ATSS-NP-18-1.5   | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 21.4          | B        | 30   | ATSS-NP-19-1.5   | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 23.2          | B        | 30   | ATSS-NP-23-03    | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 25.2          | B        | 30   | ATSS-SP-10-02    | U Flag        |
| SW6010B_W | MB-31706  | Aqueous | Selenium | 7.73         | 3.2           | B        | 30   | ATSS-SP-12-01    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 1040          |          | 200  | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 1130          |          | 200  | ATSS-NP-11-01    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 1390          |          | 200  | ATSS-ID-07-3.5   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 204           |          | 200  | ATSS-ID-05-02    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 271           |          | 200  | ATSS-ID-15-03    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 2830          |          | 200  | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 391           |          | 200  | ATSS-ID-06-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 457           |          | 200  | ATSS-ID-03-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 49600         |          | 1000 | ATSS-ID-10-4.5   | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 573           |          | 200 | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 580           |          | 200 | ATSS-ID-02-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 696           |          | 200 | ATSS-NP-13-05D   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 985           |          | 200 | ATSS-ID-04-03    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Barium   | 4.347        | 138           | B        | 200 | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 223           |          | 20  | ATSS-ID-06-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 31.3          |          | 20  | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 41.0          |          | 20  | ATSS-ID-03-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 56.5          |          | 20  | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 96.1          |          | 20  | ATSS-ID-02-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 1.3           | B        | 20  | ATSS-ID-07-3.5D  | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 12.9          | B        | 20  | ATSS-ID-04-03    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 2.9           | B        | 20  | ATSS-ID-07-3.5   | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 4.1           | B        | 20  | ATSS-ID-10-4.5   | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 4.3           | B        | 20  | ATSS-ID-15-03    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 5.1           | B        | 20  | ATSS-NP-11-01    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 5.9           | B        | 20  | ATSS-ID-10-0.6   | Not Qualified |



|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 6.7           | B        | 20   | ATSS-ID-05-02    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Chromium | 0.974        | 7.9           | B        | 20   | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 121000        |          | 2000 | ATSS-ID-03-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 141           |          | 10   | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 154           |          | 10   | ATSS-ID-04-03    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 160           |          | 10   | ATSS-ID-07-3.5D  | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 20.0          |          | 10   | ATSS-ID-07-3.5   | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 218           |          | 10   | ATSS-ID-02-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 22.3          |          | 10   | ATSS-ID-05-02    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 223           |          | 10   | ATSS-NP-11-01    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 291           |          | 10   | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 34.1          |          | 10   | ATSS-ID-06-04    | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 42700         |          | 1000 | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 6070          |          | 100  | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 64.7          |          | 10   | ATSS-NP-13-05D   | Not Qualified |
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 7140          |          | 100  | ATSS-ID-10-0.6   | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|-----|------------------|---------------|
| SW6010B_W | MB-31714  | Aqueous | Lead     | 5.383        | 0.80          | B        | 10  | ATSS-ID-15-03    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 13.4          | B        | 30  | ATSS-ID-05-02    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 18.4          | B        | 30  | ATSS-ID-06-04    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 20.2          | B        | 30  | ATSS-ID-02-04    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 21.7          | B        | 30  | ATSS-ID-10-4.5   | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 21.9          | B        | 30  | ATSS-ID-10-0.6   | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 22.5          | B        | 30  | ATSS-ID-03-04    | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 3.5           | B        | 30  | ATSS-ID-16-0.6   | U Flag        |
| SW6010B_W | MB-31714  | Aqueous | Selenium | 12.53        | 7.5           | B        | 30  | ATSS-NP-12-10.5  | U Flag        |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 223           |          | 20  | ATSS-ID-06-04    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 31.3          |          | 20  | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 41.0          |          | 20  | ATSS-ID-03-04    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 56.5          |          | 20  | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 96.1          |          | 20  | ATSS-ID-02-04    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 1.3           | B        | 20  | ATSS-ID-07-3.5D  | U Flag        |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 12.9          | B        | 20  | ATSS-ID-04-03    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 2.9           | B        | 20  | ATSS-ID-07-3.5   | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte  | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|----------|--------------|---------------|----------|------|------------------|---------------|
|           |           | S       |          |              |               |          |      |                  |               |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 4.1           | B        | 20   | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 4.3           | B        | 20   | ATSS-ID-15-03    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 5.1           | B        | 20   | ATSS-NP-11-01    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 5.9           | B        | 20   | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 6.7           | B        | 20   | ATSS-ID-05-02    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Chromium | 0.496        | 7.9           | B        | 20   | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 121000        |          | 2000 | ATSS-ID-03-04    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 141           |          | 10   | ATSS-NP-12-10.5  | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 154           |          | 10   | ATSS-ID-04-03    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 160           |          | 10   | ATSS-ID-07-3.5D  | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 20.0          |          | 10   | ATSS-ID-07-3.5   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 218           |          | 10   | ATSS-ID-02-04    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 22.3          |          | 10   | ATSS-ID-05-02    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 223           |          | 10   | ATSS-NP-11-01    | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 291           |          | 10   | ATSS-ID-14-2.5   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead     | 1.206        | 34.1          |          | 10   | ATSS-ID-06-04    | Not Qualified |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Method    | Lab Blank | Matrix  | Analyte | Blank Result | Sample Result | Lab Qual | PQL  | Affected Samples | Sample Flag   |
|-----------|-----------|---------|---------|--------------|---------------|----------|------|------------------|---------------|
| SW6010B_W | MB-31764  | Aqueous | Lead    | 1.206        | 42700         |          | 1000 | ATSS-ID-10-4.5   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead    | 1.206        | 6070          |          | 100  | ATSS-ID-16-0.6   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead    | 1.206        | 64.7          |          | 10   | ATSS-NP-13-05D   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead    | 1.206        | 7140          |          | 100  | ATSS-ID-10-0.6   | Not Qualified |
| SW6010B_W | MB-31764  | Aqueous | Lead    | 1.206        | 0.80          | B        | 10   | ATSS-ID-15-03    | U Flag        |

**Table 2B - List of Samples Qualified for Field Blank Contamination**  
None

**Table 3 - List of Samples with Surrogates outside Control Limits**  
NA

**Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits**

| Method    | Sample ID       | Sample Type | Analyte  | RPD   | RPD Limit | Sample Qual.       |
|-----------|-----------------|-------------|----------|-------|-----------|--------------------|
| SW6010B_W | ATSS-ID-05-02   | DUP         | Arsenic  | 200.0 | 20.0      | None; Results <PQL |
| SW6010B_W | ATSS-SP-07-03   | DUP         | Arsenic  | 78.9  | 20.0      | None; Results <PQL |
| SW6010B_W | ATSS-WPA-03-0.6 | DUP         | Arsenic  | 200.0 | 20.0      | None; Results <PQL |
| SW6010B_W | ATSS-SP-07-03   | DUP         | Selenium | 63.5  | 20.0      | None; Results <PQL |
| SW6010B_W | ATSS-WPA-03-0.6 | DUP         | Selenium | 163.8 | 20.0      | None; Results <PQL |
| SW6010B_W | ATSS-ID-05-02   | DUP         | Silver   | 22.2  | 20.0      | None; Results <PQL |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

**Table 5 - List LCS Recoveries outside Control Limits**  
None

**Table 6 –Samples that were Reanalyzed**  
None

**Table 7 – Summary of Field Duplicate Results**

| Analyte  | Unit | PQL | ATSS-NP-05-1 5-D | ATSS-NP-05-1 5 | RPD    | RPD Rating | Samp Qual              |
|----------|------|-----|------------------|----------------|--------|------------|------------------------|
| Arsenic  | µg/L | 20  | 3.7              | 1.7            | 74.1%  | Good       | None – Difference <PQL |
| Barium   | µg/L | 200 | 1780             | 1400           | 23.9%  | Good       | None                   |
| Cadmium  | µg/L | 5.0 | 2.7              | 4.5            | 50.0%  | Good       | None – Difference <PQL |
| Chromium | µg/L | 20  | 15.9             | 4.5            | 111.8% | Good       | None – Difference <PQL |
| Lead     | µg/L | 10  | 609              | 763            | 22.4%  | Good       | None                   |
| Silver   | µg/L | 30  | 21.9             | 61.9           | 95.5%  | Poor       | J Flag                 |

| Analyte | Unit | PQL  | ATSS-GS-01-05D | ATSS-GS-01-05 | RPD    | RPD Rating | Samp Qual              |
|---------|------|------|----------------|---------------|--------|------------|------------------------|
| Arsenic | µg/L | 20   | 10.5           | 46.7          | 126.6% | Poor       | J Flag                 |
| Barium  | µg/L | 200  | 508            | 795           | 44.1%  | Poor       | J Flag                 |
| Cadmium | µg/L | 5.0  | 1.9            | 5.3           | 94.4%  | Good       | None – Difference <PQL |
| Lead    | µg/L | 2000 | 492            | 131000        | 198.5% | Poor       | J Flag                 |
| Silver  | µg/L | 30   | 4.4            | 5.1           | 14.7%  | Good       | None                   |

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| <b>Data Usability Summary Report</b>     | <b>Project: AI Tech Steel</b>     |
| <b>Date Completed: September 4, 2007</b> | <b>Completed by: B. Krajewski</b> |

| Analyte  | Unit | PQL | ATSS-GS-12-4_5D | ATSS-GS-12-4_5 | RPD    | RPD Rating | Samp Qual |
|----------|------|-----|-----------------|----------------|--------|------------|-----------|
| Arsenic  | µg/L | 20  | 5.7             | 4.8            | 17.1%  | Good       | None      |
| Barium   | µg/L | 200 | 1140            | 957            | 17.5%  | Good       | None      |
| Cadmium  | µg/L | 5.0 | 65.5            | 35.8           | 58.6%  | Poor       | J Flag    |
| Chromium | µg/L | 20  | NA              | 6.3            | NC     |            |           |
| Lead     | µg/L | 500 | 31400           | 1950           | 176.6% | Poor       | J Flag    |
| Silver   | µg/L | 30  | 42.4            | 33.2           | 24.3%  | Good       | None      |

| Analyte | Unit | PQL | ATSS-ID-07-3_5D | ATSS-ID-07-3_5 | RPD   | RPD Rating | Samp Qual              |
|---------|------|-----|-----------------|----------------|-------|------------|------------------------|
| Arsenic | µg/L | 20  | 4.7             | 8.7            | 59.7% | Good       | None – Difference <PQL |
| Barium  | µg/L | 200 | 1130            | 1390           | 20.6% | Good       | None                   |
| Lead    | µg/L | 10  | 160             | NA             | NC    |            |                        |
| Silver  | µg/L | 30  | 54.0            | 61.3           | 12.7% | Good       | None                   |

Key:

A = Analyte

NC = Not Calculated

ND = Not Detected

PQL = Practical Quantitation Limit

RPD = Relative Percent Difference

T = Tentatively Identified Compound

# D

## Boring Logs



# DRILLING LOG FOR ATSS-SP-15-03

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothagle

Driller's Name Jeff Schwitter

Geologist's Name Mary Werth

Geologist's Signature Mary Werth

Rig Type (s) \_\_\_\_\_

Drilling Method (s) Hand dig

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

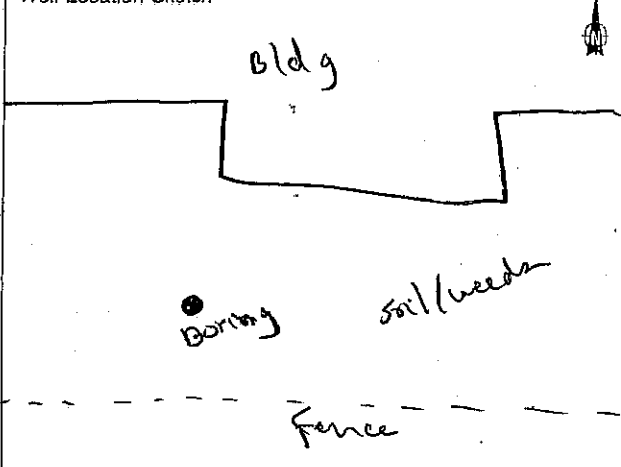
Total Depth of Borehole Is 3'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | H <sub>2</sub> O/A (ppm)<br>PID | Comments<br>Borehole (ppm) |
|--------------|---------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------------------------|----------------------------|
| Soil Surface |               |                  | S<br>CL<br>CL                              |                   |            |               |     |                 |                                 |                            |
| 1            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 2            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 3            |               |                  |                                            |                   |            |               |     |                 | ↑<br>0.0                        | ↑<br>0.0                   |
| 4            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 5            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 6            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 7            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 8            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 9            |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 10           |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 11           |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 12           |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 13           |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 14           |               |                  |                                            |                   |            |               |     |                 |                                 |                            |
| 15           |               |                  |                                            |                   |            |               |     |                 |                                 |                            |

TD =

↑  
Sample  
3'  
at  
1523



**SCREENED WELL**

**OPEN-HOLE WELL**

Lock Number \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                    | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                     | Dry                              | Moist                 | Wet                   |
| 1         | 0-8" Silty sand, med brown, gravel, dry             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | med. grained sand, dense.                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 8"-2' same, fine clay                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 2-3' Sandy clay, med brown/gray, st. dense, + Black | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | Fine grained, dry                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TD = 3' bgs                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-GS-04-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name: J. Schweitzer

Geologist's Name m. werth

Geologist's Signature May Usher

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

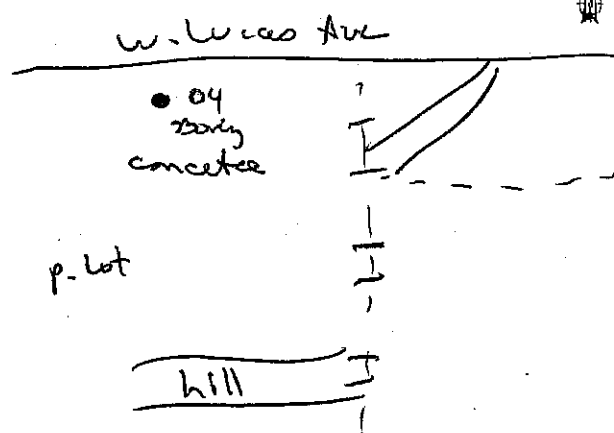
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                             | Moisture Content                 |                       |                       |
|-----------|------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                              | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" concrete                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 6"-4' Sandy clay, dense, dy, trace gravel, gray/brown - trace black at 4'±3' | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TD = 4'                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-GS-01-08Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 2/11/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name m. werthGeologist's Signature [Signature]Rig Type (s) Geoprobe / track rigDrilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

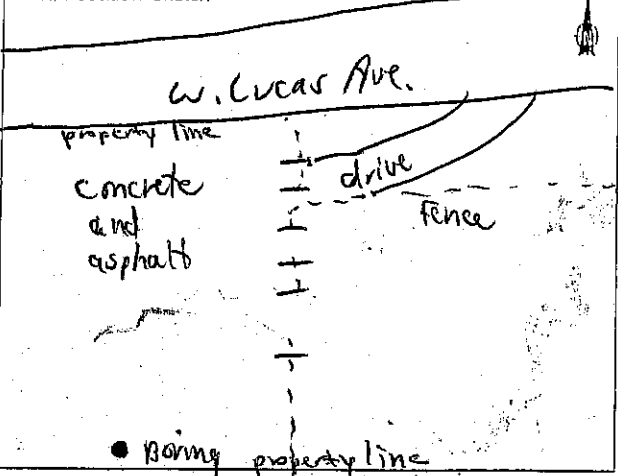
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number           | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|-------------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | sample at 5' 0831 + dup |                  | Concrete at 1'                             |                   |            |               |     |                 | PWD           | borehole |
| 2            |                         |                  |                                            |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                         |                  | SL                                         |                   |            |               |     |                 |               |          |
| 4            |                         |                  | S                                          |                   |            |               |     |                 |               |          |
| 5            |                         |                  |                                            |                   |            |               |     |                 | 0.0 ppm       |          |
| 6            |                         |                  | CL                                         |                   |            |               |     |                 |               | 0.0 ppm  |
| 7            |                         |                  | S                                          |                   |            |               |     |                 |               |          |
| 8            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                         |                  |                                            |                   |            |               |     |                 |               |          |

TD=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                          | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                           | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" concrete                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 6"-8" Silty sand, dark brown, med grained, dry, sl. dense, trace gravel                   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 8"-4' Same, med brown, trace clay at 3'-4'                                                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | 4'-8' Sandy clay, dense, dry, trace gravel, fine grained sand, Black 4-6, Brown/gray 6-8. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | TD = 8' bgs                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-NP-13-08

Project Name Al Tech

Site Location Punkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe/track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

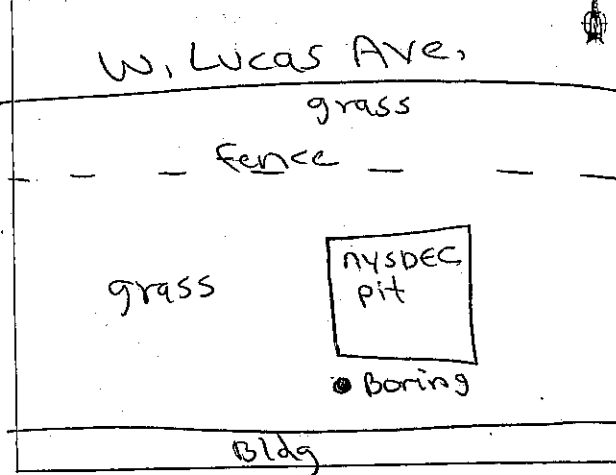
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            |                   |                  | S                                          |                   |            |               |     |                 | 0.0           | Borehole |
| 2            |                   |                  |                                            |                   |            |               |     |                 | ppm           | ppm      |
| 3            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 4            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 5            | Sample 5' at 1433 |                  | S                                          |                   |            |               |     |                 | 0.0           | 0.0      |
| 6            |                   |                  | CL                                         |                   |            |               |     |                 | ppm           | ppm      |
| 7            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                   |                  |                                            |                   |            |               |     |                 |               |          |

TD =

NA

SCREENED WELL

NA

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC

☐ Stainless Steel

Pack Type/Size:

☐ Sand

☐ Gravel

☐ Natural

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                 | Dry                              | Moist                 | Wet                   |
| 1         | 0-4' - Sand, Fine grained, Med. brown, trace gravel, dry, loose | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | 4'-5' - same                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 5'-6' - same, black w/ gravel, dry                              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | 6'-8' - Sandy clay, med. brown, dense, dry, fine grained        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TD = 8' bgs                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-12-11Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/11/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe / track rigDrilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

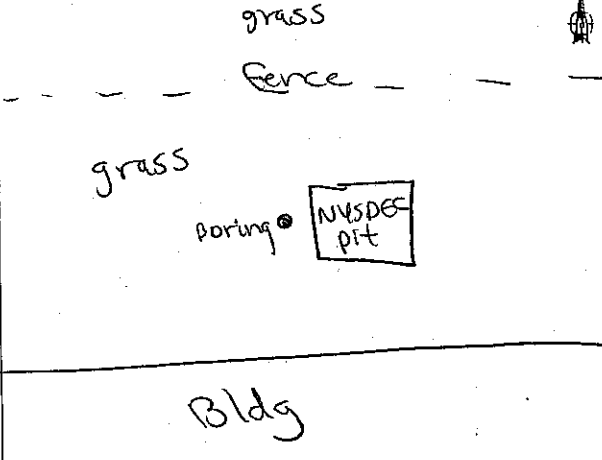
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 11'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number        | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments |
|--------------|----------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------|
| 1            | 10.5' Sample at 1422 |                  | SL                                         |                   |            |               |     |                 |                      | Borehole |
| 2            |                      |                  | S                                          |                   |            |               |     |                 | 0.0 PPM              | 0.0 PPM  |
| 3            |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 4            |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 5            |                      |                  | S                                          |                   |            |               |     |                 | 0.0 PPM              | 0.0 PPM  |
| 6            |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 7            |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 8            |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 9            |                      |                  | S                                          |                   |            |               |     |                 | 0.0 PPM              | 0.0 PPM  |
| 10           |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 11           |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 12           |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 13           |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 14           |                      |                  |                                            |                   |            |               |     |                 |                      |          |
| 15           |                      |                  |                                            |                   |            |               |     |                 |                      |          |

TD =



NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

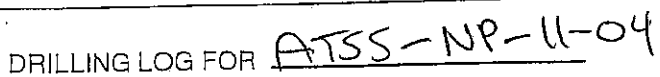
Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                             | Moisture Content                 |                                  |                                  |
|-----------|------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |                                                                              | Dry                              | Moist                            | Wet                              |
| 1         | 0-6" - Silty Sand, gravel, med brown, dry, Fine grained, sl. dense           | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            |
| 2         | 6"-6' - Sand w/ gravel, trace clay, med. brown, sl. dense, fine grained      | <input checked="" type="radio"/> | <input type="radio"/>            | <input type="radio"/>            |
| 3         | 6' - 8' - same, dk. brown to black, wet, fine grained, sl. dense to sh loose | <input type="radio"/>            | <input type="radio"/>            | <input checked="" type="radio"/> |
| 4         | 8'-10.5' - Sand, med. brown, loose, fine grained, wet                        | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| 5         | 10.5'-11' - weathered shale                                                  | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 6         |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 7         |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 8         |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 9         |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 10        |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 11        |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 12        |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 13        |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 14        |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |
| 15        |                                                                              | <input type="radio"/>            | <input type="radio"/>            | <input type="radio"/>            |



Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature May West

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macro core 2.125

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

W. Lucas Ave.

grass

Fence

grass

- Boring

## of concrete Footings

Bldg

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                           | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                            | Dry                              | Moist                 | Wet                   |
| 1         | 0-4"- Silty sand, gravel, Fine grained, dry, med. brown                    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 4"-1'- Same, trace Clay                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1'-4'- Sandy clay, gravel, dry, med brown to dk brown, dense, Fine grained | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TIP = 4' bgs                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-10-04

Project Name AI Tech

Site Location: Dunkirk, NY

Date Started/Finished 7/11/87

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature Mary Ward

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macro core 2/2

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

W. Lucas Ave.

grass

Fence

grass

Boring

Bldg

[illegible]

NA

NA

### SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

### OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                        | Moisture Content |       |     |
|-----------|-------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                         | Dry              | Moist | Wet |
| 1         | 0-6" - Silty sand, trace gravel, med brown, dry, sl. dense, med grained | ⊗                | ○     | ○   |
| 2         |                                                                         | ○                | ○     | ○   |
| 3         | 6" - 1' - Silty sand w/clay, tan/gray, trace gravel                     | ○                | ○     | ○   |
| 4         |                                                                         | ○                | ○     | ○   |
| 5         | 1' - 4' - sandy clay, gray to 3', tan/med brown to 4'                   | ⊗                | ○     | ○   |
| 6         |                                                                         | ○                | ○     | ○   |
| 7         |                                                                         | ○                | ○     | ○   |
| 8         | TP = 4' bgs                                                             | ○                | ○     | ○   |
| 9         |                                                                         | ○                | ○     | ○   |
| 10        |                                                                         | ○                | ○     | ○   |
| 11        |                                                                         | ○                | ○     | ○   |
| 12        |                                                                         | ○                | ○     | ○   |
| 13        |                                                                         | ○                | ○     | ○   |
| 14        |                                                                         | ○                | ○     | ○   |
| 15        |                                                                         | ○                | ○     | ○   |



# DRILLING LOG FOR ATSS-ID-11-04

Project Name ALTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature My Weir

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

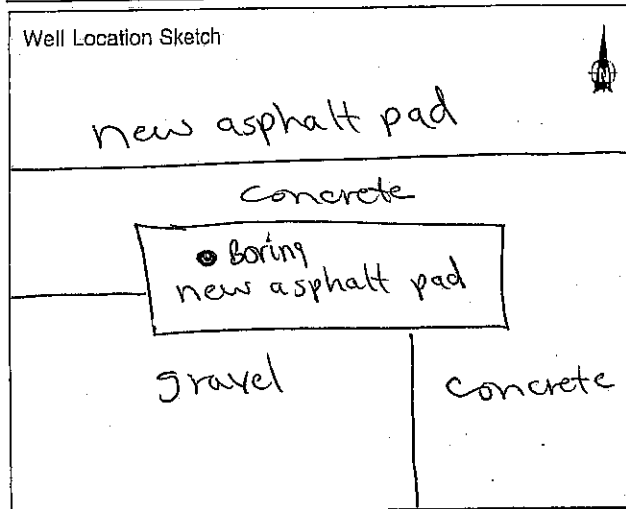
Total Depth of Borehole Is 3'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIG)

| Date | Time | Level( Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth(Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNW/OVA (ppm) | Comments |
|-------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1           | Sample 2.8' at 1356 |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2           |                     |                  | S                                          |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 3           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 4           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 5           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 6           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 7           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 8           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 9           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 10          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 11          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 12          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 13          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 14          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 15          |                     |                  |                                            |                   |            |               |     |                 |               |          |

TD =

**NA**

**SCREENED WELL**

**NA**

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                   | Moisture Content |       |     |
|-----------|--------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                    | Dry              | Moist | Wet |
| 1         | 0-6"-asphalt                                                       | ○                | ○     | ○   |
| 2         | 6"-8"-concrete                                                     | ○                | ○     | ○   |
| 3         | 8"-2.8'-Silty sand, gravel, med brown, dry, sl. dense, Med grained | ⊗                | ○     | ○   |
| 4         |                                                                    | ○                | ○     | ○   |
| 5         | 2.8'-2.9'-asphalt layer                                            | ○                | ○     | ○   |
| 6         | 2.9'-3'-concrete layer                                             | ○                | ○     | ○   |
| 7         |                                                                    | ○                | ○     | ○   |
| 8         | Refusal at 3' due to concrete layer                                | ○                | ○     | ○   |
| 9         |                                                                    | ○                | ○     | ○   |
| 10        |                                                                    | ○                | ○     | ○   |
| 11        |                                                                    | ○                | ○     | ○   |
| 12        |                                                                    | ○                | ○     | ○   |
| 13        |                                                                    | ○                | ○     | ○   |
| 14        |                                                                    | ○                | ○     | ○   |
| 15        |                                                                    | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-ID-17-08

Project Name AlTech

Site Location: Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schwetzer

Geologist's Name m. Werth

Geologist's Signature M. Wenzel

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

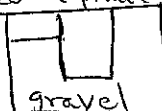
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 81

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch  
new asphalt pad



concrete

Dirt /  
Weeds

② Tree

• Boring  
-ee

Fence

[illegible]



NA

NA

**SCREENED WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Bottom of Rock Socket/ Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/ Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                               | Moisture Content |       |     |
|-----------|--------------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                                | Dry              | Moist | Wet |
| 1         | 0-2.5' - Silty sand, dk brown, gravel 0-1/2", med grained, dry, sl. dense      | ⊗                | ○     | ○   |
| 2         |                                                                                | ○                | ○     | ○   |
| 3         | 2.5' - 4' - Sandy clay, gravel, dense, dk brown, tan. mixed, dry, Fine grained | ⊗                | ○     | ○   |
| 4         |                                                                                | ○                | ○     | ○   |
| 5         | 4' - 5' - Silty sand, dk brown, gravel 0-1/2", med grained, dry, sl. dense     | ⊗                | ○     | ○   |
| 6         |                                                                                | ○                | ○     | ○   |
| 7         | 5' - 8' - sandy clay, dk brown to 5'-6', tan/med brown 6'-8',                  | ⊗                | ○     | ○   |
| 8         |                                                                                | ○                | ○     | ○   |
| 9         |                                                                                | ○                | ○     | ○   |
| 10        | TP = 4' bgs                                                                    | ○                | ○     | ○   |
| 11        |                                                                                | ○                | ○     | ○   |
| 12        |                                                                                | ○                | ○     | ○   |
| 13        |                                                                                | ○                | ○     | ○   |
| 14        |                                                                                | ○                | ○     | ○   |
| 15        |                                                                                | ○                | ○     | ○   |



# DRILLING LOG FOR ATSS-ID-16-04

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nathnagle

Driller's Name J. Schwertzer

Geologist's Name m. Werth

Geologist's Signature (My Word)

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

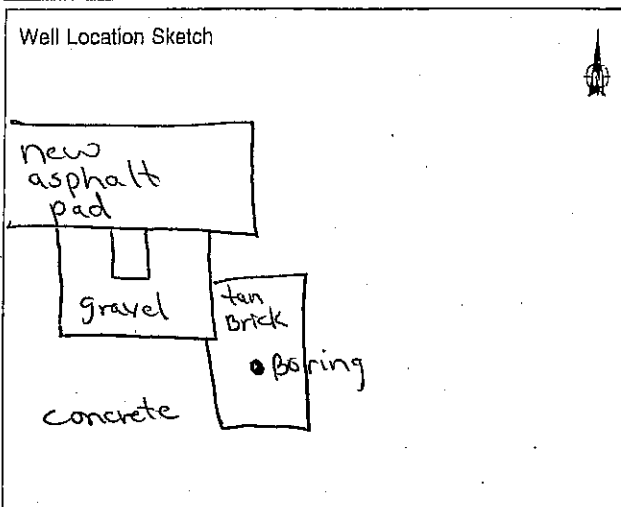
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level( Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth(Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|-------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1           | 0.6" sample at 1340 |                  | SL                                         |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 2           |                     |                  | S                                          |                   |            |               |     |                 | PPM                  | PPM                  |
| 3           |                     |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 4           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 6           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 7           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10          |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11          |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12          |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13          |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14          |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15          |                     |                  |                                            |                   |            |               |     |                 |                      |                      |

TP=

**SCREENED WELL**

**OPEN-HOLE WELL**

Lock Number \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION          | Moisture Content |       |     |
|-----------|-------------------------------------------|------------------|-------|-----|
|           |                                           | Dry              | Moist | Wet |
| 1         | 0-4" - tan brick (oven brick)             | ○                | ○     | ○   |
| 2         | 4"-6" - Silty sand, dk brown, med grained | ⊗                | ○     | ○   |
| 3         | sl. dense, dry                            | ○                | ○     | ○   |
| 4         | 6" - 4' - Sandy clay, Med brown 6"-2.5'   | ○                | ○     | ○   |
| 5         | DK. brown to gray 2.5'-4'                 | ○                | ○     | ○   |
| 6         |                                           | ○                | ○     | ○   |
| 7         | TD = 4' bgs                               | ○                | ○     | ○   |
| 8         |                                           | ○                | ○     | ○   |
| 9         |                                           | ○                | ○     | ○   |
| 10        |                                           | ○                | ○     | ○   |
| 11        |                                           | ○                | ○     | ○   |
| 12        |                                           | ○                | ○     | ○   |
| 13        |                                           | ○                | ○     | ○   |
| 14        |                                           | ○                | ○     | ○   |
| 15        |                                           | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-ID-15-04

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. W. 24

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

new asphalt pad

new  
asphalt  
pad

gravel

• Boring

concretie

② Tree

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                        | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                         | Dry                              | Moist                 | Wet                   |
| 1         | 0-8" - concrete                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 8" - 1.5' - Silty sand with clay, dense, Med brown, dense, dry, fine grained gravel     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.5' - 3' - Sandy clay, Med brown, trace gravel, dense, dry                             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 3' - 3.5' - Gravel layer/some shale, Sand, gray/Med brown, dry, sl. dense, Fine grained | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | 3.5' - 4' - Sandy clay, gray/Black, dense dry, fine grained                             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        | TD = 4' bgs                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-ID-14-04

Project Name AI Tech

Site Location: Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature My Way

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole is 45

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch



new asphalt pad

- Boring

concrete

new  
asphalt  
pad

[illegible]

NA

SCREENED WELL

NA

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                     | Moisture Content                 |                       |                       |
|-----------|--------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                      | Dry                              | Moist                 | Wet                   |
| 1         | 0-2.5' - Silty Sand w/ clay, med brown, gravel, Fine to med. grained, sl. dense, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 2.5' - 3.5' - Sandy clay, dense, med brown, dry, fine grained                        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 3.5' - 4' - Sandy clay, gravel, rusty/med brown, dense, dry                          | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TD = 4' bgs                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-ID-10-08

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schwertzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe/track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

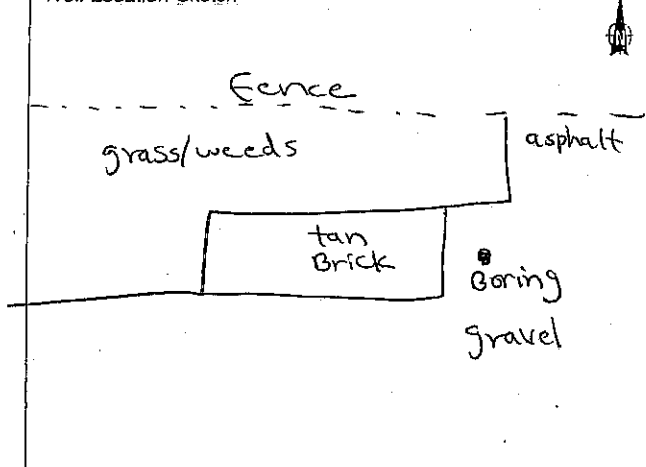
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments            |
|--------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|---------------------|
| 1            | Sample 4.5' at 1314 |                  | S                                          |                   |            |               |     |                 |                      | Borehole<br>0.0 PPM |
| 2            |                     |                  | CL                                         |                   |            |               |     |                 | 0.0 PPM              |                     |
| 3            |                     |                  | SL                                         |                   |            |               |     |                 |                      |                     |
| 4            |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 5            |                     |                  | S                                          |                   |            |               |     |                 | 0.0 PPM              | 0.0 PPM             |
| 6            |                     |                  | CL                                         |                   |            |               |     |                 |                      |                     |
| 7            |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 8            |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 9            |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 10           |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 11           |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 12           |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 13           |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 14           |                     |                  |                                            |                   |            |               |     |                 |                      |                     |
| 15           |                     |                  |                                            |                   |            |               |     |                 |                      |                     |

TD =



**SCREENED WELL**

**OPEN-HOLE WELL**

GROUND SURFACE

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                 | Dry                              | Moist                 | Wet                   |
| 1         | 0-4"-Gravel                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 4"-6"-Sandy clay, tan, dense, dry, Fine grained                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 6"-8"-Silty sand, Black, sl. dense, lg. grained                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | dry, gravel                                                     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | 8"-10"-oven brick, tan                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 10"-4.5'-Silty sand, Black, sl. dense, lg. grained, dry, gravel | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         | 4.5'-8'-Sandy clay, greenish/brown, dense, dry                  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | TD = 8' bgs                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-ID-04-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schwertzer

Geologist's Name m. werth

Geologist's Signature M. West

Rig Type (s) Geoprobe / track No

Drilling Method (s) macro core 2.125

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

W. Lucas Ave.

grass

fence

weeds

- Borine  
ten  
gruck

asphalt

concrete

[illegible]

NA

NA

**SCREENED WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION          | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                           | Dry                              | Moist                 | Wet                   |
| 1         | 0-3' - Silty sand, med brown, gravel, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | sl. dense (mixed black soil (6"-3'))      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 3'-4' - Sandy clay, tan/green, dense, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | TD = 4' bgs                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-ID-05-04

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2 1/2"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

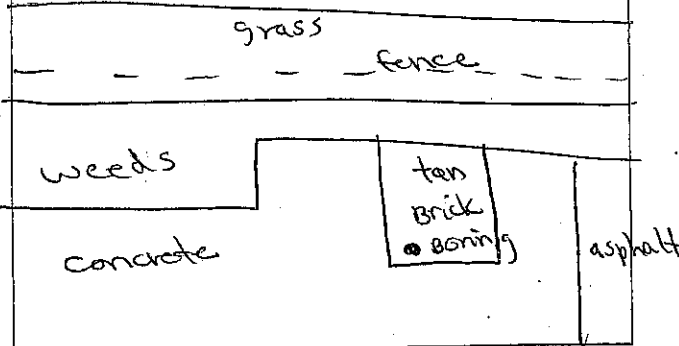
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

## Well Location Sketch

W. Lucas Ave.



| Depth (Feet) | Sample Number                  | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration<br>Times | Run<br>Number | Core<br>Recovery | RQD | Fracture<br>Sketch | HNU/OVA<br>(ppm)<br>PID | Comments                |
|--------------|--------------------------------|------------------|-----------------------------------------------|----------------------|---------------|------------------|-----|--------------------|-------------------------|-------------------------|
| 1            | sample<br>2 1/2"<br>at<br>1302 |                  | SL                                            |                      |               |                  |     |                    | 0.10<br>PPM             | Borehole<br>0.10<br>PPM |
| 2            |                                |                  | S                                             |                      |               |                  |     |                    |                         |                         |
| 3            |                                |                  | CL                                            |                      |               |                  |     |                    |                         |                         |
| 4            |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 5            |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 6            |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 7            |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 8            |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 9            |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 10           |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 11           |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 12           |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 13           |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 14           |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |
| 15           |                                |                  |                                               |                      |               |                  |     |                    |                         |                         |

TD=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

**Quantity of Material Used:**

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

**Pack Type/Size:**

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                            | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                             | Dry                              | Moist                 | Wet                   |
| 1         | 0-4" - oven brick, lt. tan                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 4" - 2' - silty sand, black, gravel, dry, lg to med grained | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 2' - 4' - sandy clay, tan/gray, dense, dry, trace gravel.   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TID = 4' bgs                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-ID-06-08

Project Name AI Tech

Site Location: Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature Don Werk

Rig Type (s) Geoprobe/track rig

Drilling Method (s) Macrocore 21/28

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Spill Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 8

Total Depth of Corehole is \_\_\_\_\_

[illegible]

### Well Location Sketch

W. Lucas Ave.

grass      fence

weeds

concrete

tan  
birds

• BERRY

asphalt

[illegible]

NA

NA

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                              | Moisture Content |       |     |
|-----------|---------------------------------------------------------------|------------------|-------|-----|
|           |                                                               | Dry              | Moist | Wet |
|           | 0-1'- concrete                                                |                  |       |     |
| 1         | 1'-4'- Silty sand, black, sl. dense, gravel, dry, med grained | ⊗                | ○     | ○   |
| 2         |                                                               | ○                | ○     | ○   |
| 3         | 4'-8'- Sandy clay, dense, lt. brown/gray trace gravel         | ⊗                | ○     | ○   |
| 4         |                                                               | ○                | ○     | ○   |
| 5         |                                                               | ○                | ○     | ○   |
| 6         |                                                               | ○                | ○     | ○   |
| 7         | TP=8' bgs                                                     | ○                | ○     | ○   |
| 8         |                                                               | ○                | ○     | ○   |
| 9         |                                                               | ○                | ○     | ○   |
| 10        |                                                               | ○                | ○     | ○   |
| 11        |                                                               | ○                | ○     | ○   |
| 12        |                                                               | ○                | ○     | ○   |
| 13        |                                                               | ○                | ○     | ○   |
| 14        |                                                               | ○                | ○     | ○   |
| 15        |                                                               | ○                | ○     | ○   |



# DRILLING LOG FOR ATSS-ID-07-08

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature [Signature]

Rig Type (s) Geoprobe/track rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Spit Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch

W. Lucas Ave.



grass

fence

weeds

tan brick

asphalt

concrete

• Boring

| Depth (Feet) | Sample Number                | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br>PID | Comments<br>Boring |
|--------------|------------------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|--------------------|
| 1            | Sample 3.5' at 1247 *<br>DVP |                  | SL                                         |                   |            |               |     |                 | 0.10                 | 0.10               |
| 2            |                              |                  | S                                          |                   |            |               |     |                 | PPM                  | PPM                |
| 3            |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 4            |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 5            |                              |                  | SL                                         |                   |            |               |     |                 | 0.10                 | 0.10               |
| 6            |                              |                  | S                                          |                   |            |               |     |                 | PPM                  | PPM                |
| 7            |                              |                  | CL                                         |                   |            |               |     |                 |                      |                    |
| 8            |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 9            |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 10           |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 11           |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 12           |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 13           |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 14           |                              |                  |                                            |                   |            |               |     |                 |                      |                    |
| 15           |                              |                  |                                            |                   |            |               |     |                 |                      |                    |

TD



(NA)

(NA)

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                               | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                | Dry                              | Moist                 | Wet                   |
| 1         | 0-1' concrete                                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 1'-3.5' Silty sand, black, gravel, med grained, dry, sl. dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 3.5'-3.7'-oven brick, lt. brown                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 3.7'-4'-Silty sand, black, gravel, med grained, dry, sl. dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | 4'-8'-Sandy clay, grayish green                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | (4-6.5') gray (6.5 to 8), trace                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | gravel, dense                                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        | TD = 8' bgs                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-ID-08-04

Project Name AlTech

Site Location: Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature M. J. Wark

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

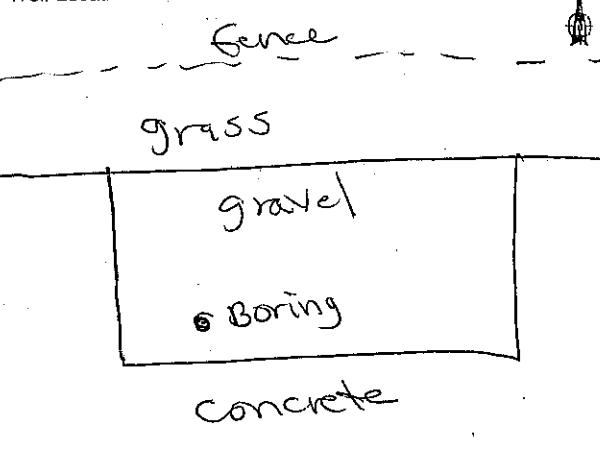
Auger/Spill Spoon Refusal \_\_\_\_\_

Total Depth of Borehole is 4

Total Depth of Corehole is \_\_\_\_\_

[illegible]

### Well Location Sketch

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/ Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/ Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION      | Moisture Content                 |                       |                       |
|-----------|---------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                       | Dry                              | Moist                 | Wet                   |
| 1         | 0-2" Gravel                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 2"-6" concrete layer                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 6"-8" silty sand, gravel, black, dry, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | sl. dense, med grained                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 8"-4"- Sandy clay, black, dense, dry  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | fine grained                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TD = 4' bgs                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-ID-09-04

Project Name Al Tech

Site Location Dunkirk NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

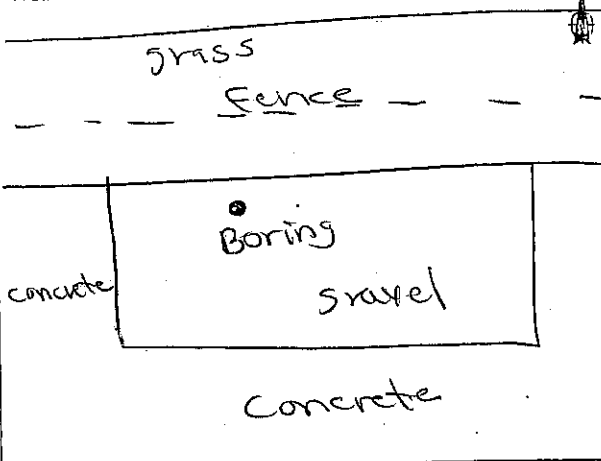
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number      | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|--------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sample 3-5 at 1144 |                  | S                                          |                   |            |               |     |                 | 0.0                  | 0.0 PPM              |
| 2            |                    |                  | CL                                         |                   |            |               |     |                 | PPM                  |                      |
| 3            |                    |                  | SL                                         |                   |            |               |     |                 | 2.5                  |                      |
| 4            |                    |                  |                                            |                   |            |               |     |                 | PPM                  |                      |
| 5            |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 6            |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 7            |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                    |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                    |                  |                                            |                   |            |               |     |                 |                      |                      |

TD =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

**Quantity of Material Used:**

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

**Pack Type/Size:**

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                            | Moisture Content                    |                          |                          |
|-----------|---------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
|           |                                                                                             | Dry                                 | Moist                    | Wet                      |
| 1         | 0-1' - Sandy clay with gravel gray/dk brown, sl. dense, dry, fine grained                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2         | 1'-3.5' - same, med brown                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3         | 3.5'-4' - same, grayish/green, no gravel (2.5 ppm at 4' + odor). Black silty sand mixed in. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4         |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 5         |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6         |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 7         |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8         | TD = 4' bgs                                                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 9         |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 10        |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11        |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 12        |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 13        |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14        |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15        |                                                                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |



# DRILLING LOG FOR ATSS-ID-03-08

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

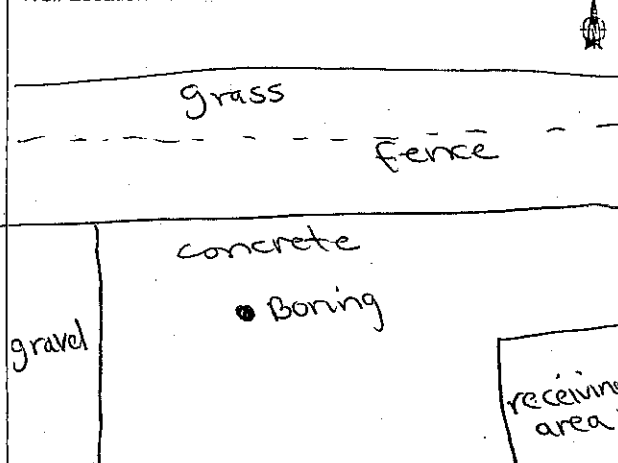
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number           | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration<br>Times | Run<br>Number | Core<br>Recovery | RQD | Fracture<br>Sketch | HNu/OVA<br>(ppm) | Comments               |
|--------------|-------------------------|------------------|-----------------------------------------------|----------------------|---------------|------------------|-----|--------------------|------------------|------------------------|
| 1            | Sample<br>4' at<br>1131 |                  | SL                                            |                      |               |                  |     |                    | 0.0              | Borehole<br>0.0<br>ppm |
| 2            |                         |                  | S                                             |                      |               |                  |     |                    | ppm              |                        |
| 3            |                         |                  | CL                                            |                      |               |                  |     |                    |                  |                        |
| 4            |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 5            |                         |                  | S                                             |                      |               |                  |     |                    | 0.0              | 0.0<br>ppm             |
| 6            |                         |                  | CL                                            |                      |               |                  |     |                    | ppm              |                        |
| 7            |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 8            |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 9            |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 10           |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 11           |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 12           |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 13           |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 14           |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |
| 15           |                         |                  |                                               |                      |               |                  |     |                    |                  |                        |

TP =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                         | Moisture Content |       |     |
|-----------|--------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                          | Dry              | Moist | Wet |
| 1         | 0-1' - concrete                                                          | ○                | ○     | ○   |
| 2         | 1'-3' - silty sand, black, med to lg grained gravel, dry, sl. dense      | ⊗                | ○     | ○   |
| 3         |                                                                          | ○                | ○     | ○   |
| 4         | 3'-3.2 - red brick                                                       | ○                | ○     | ○   |
| 5         | 3.2 - 3.4 - oven brick, lt brown/tan                                     | ○                | ○     | ○   |
| 6         | 3.4 - 3.6 - Silty sand, Black, med to lg grained, gravel, dry, sl. dense | ⊗                | ○     | ○   |
| 7         |                                                                          | ○                | ○     | ○   |
| 8         | 3.6 - 4.2 - Sandy clay, black, dense, lg grained.                        | ○                | ○     | ○   |
| 9         |                                                                          | ○                | ○     | ○   |
| 10        | 4.2 - 8' - Sandy clay, greenish/gray, (4.2 - 6.5); lt brown (6.5 - 8).   | ⊗                | ○     | ○   |
| 11        |                                                                          | ○                | ○     | ○   |
| 12        |                                                                          | ○                | ○     | ○   |
| 13        | TD = 8' bgs                                                              | ○                | ○     | ○   |
| 14        |                                                                          | ○                | ○     | ○   |
| 15        |                                                                          | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-10-02-7.5Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7-11-07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe/track rigDrilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Spill Spoon Refusal \_\_\_\_\_

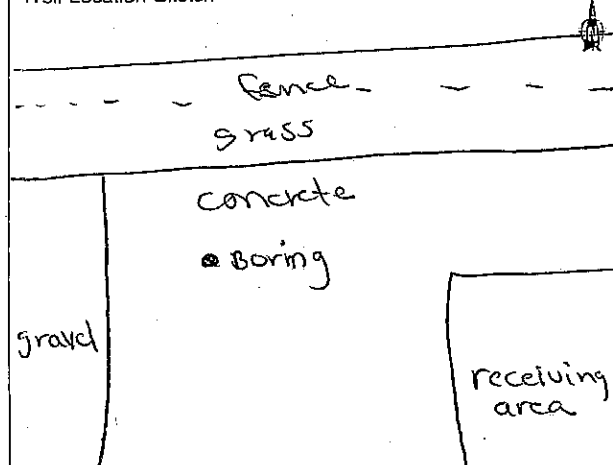
Total Depth of Borehole Is 7.5'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIG)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br>PLD | Comments<br>Borehole |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sample 4' at 1120 |                  | S                                          |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 2            |                   |                  | CL                                         |                   |            |               |     |                 | PPM                  | PPM                  |
| 3            |                   |                  | SL                                         |                   |            |               |     |                 |                      |                      |
| 4            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            | Sample 4' at 1120 |                  | S                                          |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 6            |                   |                  | SL                                         |                   |            |               |     |                 | PPM                  | PPM                  |
| 7            |                   |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 8            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |

TP=7.5



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION               | Moisture Content                 |                       |                       |
|-----------|------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                | Dry                              | Moist                 | Wet                   |
| 1         | 0-1'- concrete                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 1'-1.1'- wood pieces                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 1.1'-1.2'- Sandy clay, med brown, dense,       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | dry, fine grained sand                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 1.2'-3'- Silty sand, black, Med to lg grained, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | sl. dense, dry, trace gravel                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | 3'-3.1'- oven brick, lt-tan                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 3.1'-5'- Silty sand, black, dry, Med grained   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9         | 5'-7.5'- sandy clay, black (5-7') (green/      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | gray (7'-8') dense, fine grained.              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | 7.5' refusal, weathered shale                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-ID-01-68

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125"

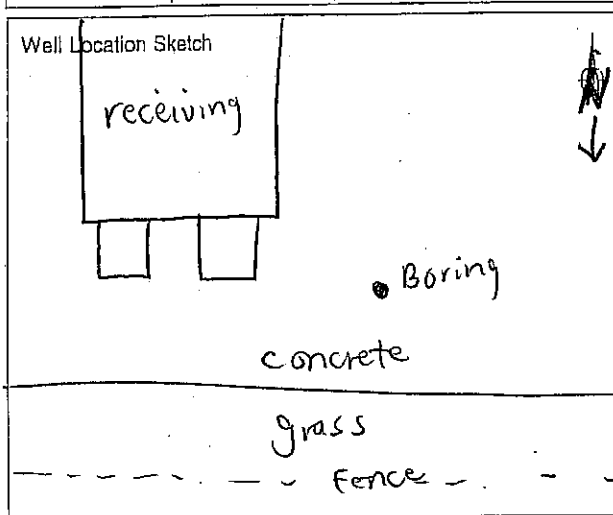
Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sample 4' at 1111 |                  | SL                                         |                   |            |               |     |                 |                      |                      |
| 2            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm              |
| 3            |                   |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 4            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |                   |                  | S                                          |                   |            |               |     |                 |                      |                      |
| 6            |                   |                  | CL                                         |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm              |
| 7            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |

TP =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                      | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                       | Dry                              | Moist                 | Wet                   |
| 1         | 0-1' concrete                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 1'-1.5' = Silty sand, black, med to lg grained, sl. dense, dry        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.5'-1.6' - oven brick, lt tan                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 1.6' - 1.8' - Red brick                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 1.8' - 1.9' - Silty Sand, black, med to lg grained, sl. dense, dry    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 1.9' - 2' - Sandy clay, med brown, dense, dry                         | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | 2' - 4.0' - Silty sand, black, med to lg grained, sl. dense, dry      | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | 4.0' - 8' - Sandy clay, tan (4-6.5'), gray/green (6.5-8'), dense, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        | TD = 8' bgs                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-GS-12-11

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nathnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature [Signature]

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

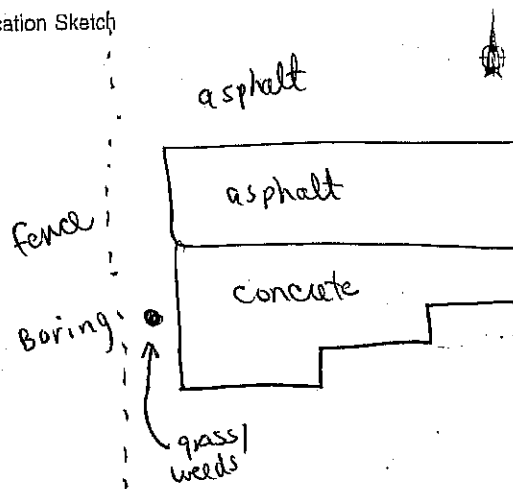
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 11'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level( Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth(Feet) | Sample Number                                | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|-------------|----------------------------------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1           | sampled<br>4.5'<br>at<br>1027                |                  | S                                             |                   |            |               |     |                 | 0.0                  |                      |
| 2           |                                              |                  | CL                                            |                   |            |               |     |                 | ppm                  | 0.0 PPM              |
| 3           |                                              |                  | SL                                            |                   |            |               |     |                 |                      |                      |
| 4           |                                              |                  |                                               |                   |            |               |     |                 |                      |                      |
| 5           | archive<br>1030<br>@<br>10'<br>black<br>clay |                  | S                                             |                   |            |               |     |                 | 0.0                  |                      |
| 6           |                                              |                  | CL                                            |                   |            |               |     |                 | ppm                  | 0.0 PPM              |
| 7           |                                              |                  | SL                                            |                   |            |               |     |                 |                      |                      |
| 8           |                                              |                  |                                               |                   |            |               |     |                 |                      |                      |
| 9           | 11' =<br>Brown<br>N.S.                       |                  | SL                                            |                   |            |               |     |                 | 0.0                  |                      |
| 10          |                                              |                  | S                                             |                   |            |               |     |                 | ppm                  | 0.0 PPM              |
| 11          |                                              |                  |                                               |                   |            |               |     |                 |                      |                      |
| 12          |                                              |                  | S                                             |                   |            |               |     |                 |                      |                      |
| 13          |                                              |                  | CL                                            |                   |            |               |     |                 |                      |                      |
| 14          |                                              |                  |                                               |                   |            |               |     |                 |                      |                      |
| 15          |                                              |                  |                                               |                   |            |               |     |                 |                      |                      |

TD =

**SCREENED WELL**

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                      | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                       | Dry                              | Moist                 | Wet                   |
| 1         | 0-3" - red brick mixed w/Black silty sand, dry        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | med grained, sl. dense                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 3"-6" - sandy clay, gray, dense, dry, fine grained,   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | trace gravel                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 6"-8" - red brick                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 8"-4' - Silty sand, med brown, trace gravel, med      | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         | to fine grained, dry, sl. dense                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 4'-4.2' - oven brick, lt. brown                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | 4.2' - 5.5' - Sandy clay, black, dense, some gray     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10        | 5.5' - 7' - Silty sand, gravel, sl. dense, med brown, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11        | tan, dry, med grained                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | 7' - 7.3' - red brick                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        | 7.3' - 9' - Silty sand (same as 5.5-7')               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        | 9' - 9.2' - oven brick, lt. tan                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        | 9.2' - 11' - Sandy clay, green t black to 10.5,       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
|           | 10.5-11 (dk brown), dense, dry, fine grained          |                                  |                       |                       |
|           | TP = 11' bgs                                          |                                  |                       |                       |



# DRILLING LOG FOR ATSS-GS-11-11

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

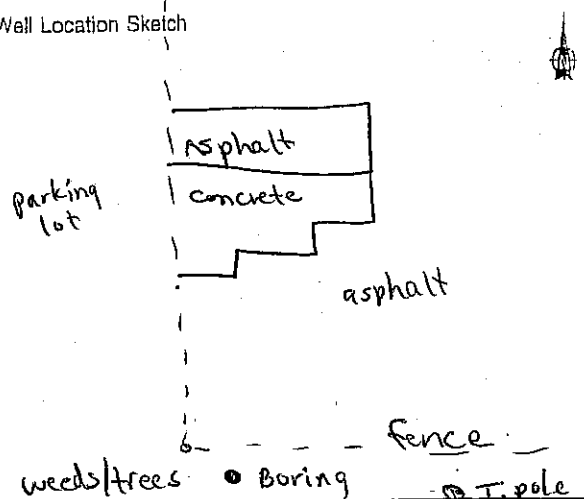
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 11'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number              | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/DVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|----------------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            |                            |                  | S                                             |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 2            |                            |                  | SL                                            |                   |            |               |     |                 | ppm                  | ppm                  |
| 3            |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 4            | Sample<br>4'<br>at<br>1011 |                  | S                                             |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 5            |                            |                  |                                               |                   |            |               |     |                 | ppm                  | ppm                  |
| 6            |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 7            |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 8            |                            |                  | SL                                            |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 9            |                            |                  | S                                             |                   |            |               |     |                 | ppm                  | ppm                  |
| 10           |                            |                  | CL                                            |                   |            |               |     |                 |                      |                      |
| 11           |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 12           |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 13           |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 14           |                            |                  |                                               |                   |            |               |     |                 |                      |                      |
| 15           |                            |                  |                                               |                   |            |               |     |                 |                      |                      |

TD=

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pelllets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                    | Moisture Content                    |                          |                          |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
|           |                                                                                     | Dry                                 | Moist                    | Wet                      |
| 1         | 0-1.5' - Silty sand, med brown, dry, gravel, med grained, sl. loose                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2         |                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3         | 1.5'-1.9' - same, black                                                             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4         | 1.9' - 4' - Sand, trace gravel, fine grained, sl. loose, med brown, dry (Fill?)     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5         |                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6         | 4' - 7.5' - same, trace gravel                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7         | 7.5' - 8' - <sup>silty</sup> Sand, black, dry, gravel, med grained, sl. loose       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8         |                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 9         | 8' - 8.5' - silty sand, med brown, trace gravel, fine grained dry                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10        |                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11        | 8.5' - 8.7' - Black, silty sand, dry, med grained                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12        | 8.7' - 11' - Sandy clay, gray (8.7-9.5), greenish/tan (9.5-11), trace gravel, dense | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13        |                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14        |                                                                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15        | TP = 11' bgs                                                                        | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |



# DRILLING LOG FOR ATSS-GS-10-12

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature [Signature]

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

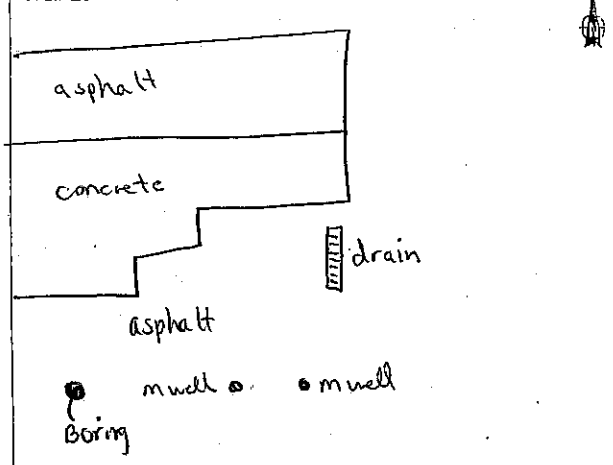
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 12'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sample 4' at 0958 |                  | SL                                         |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm              |
| 2            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 ppm              |                      |
| 3            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 4            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm              |
| 6            |                   |                  | SL                                         |                   |            |               |     |                 |                      |                      |
| 7            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm              |
| 10           |                   |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 11           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |

TD =



NA

NA

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft | NARRATIVE LITHOLOGIC DESCRIPTION                                      | Moisture Content                 |                       |                       |
|----------|-----------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|          |                                                                       | Dry                              | Moist                 | Wet                   |
| 1        | 0-6" concrete                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2        | 6"-3.5' - silty sand, fine grained, gravel, dry, sl. dense, lt. brown | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3        |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4        | 3.5'-4' - same, med brown, trace clay                                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5        | 4'-8.4' - same                                                        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6        | 8.4'-12' - Sandy clay, gray/Brown, dense, dry, Fine grained sand      | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7        |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8        |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9        | TD = 12' bgs                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10       |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11       |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12       |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13       |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14       |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15       |                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-GS-09-06Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/11/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe (truck rig)Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

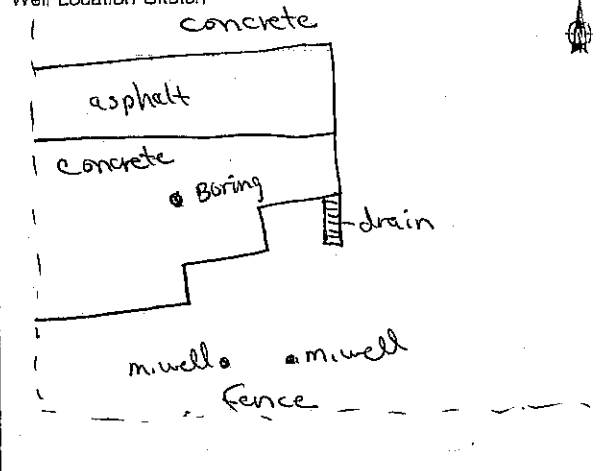
Total Depth of Borehole Is 6'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | Sample 3' at 0944 |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 3            |                   |                  | CL                                         |                   |            |               |     |                 |               |          |
| 4            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                   |                  | S.                                         |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 6            |                   |                  | SL                                         |                   |            |               |     |                 |               |          |
| 7            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                   |                  |                                            |                   |            |               |     |                 |               |          |

TD =

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                              | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" - concrete                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 6" - 1' - silty sand, med grained, gravel, dk brown, dry, sl. loose           | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 1' - 3' - Silty sand, black, med to fine grained, dry, sl. dense to sl. loose | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | 3' - 3.5' - Sandy clay, med brown, dense, trace gravel, dry                   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | 3.5' - 4.0' - red brick                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 4.0' - 6' - Silty sand, black, med grained, gravel, dry                       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 6' - Refusal / TD                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-GS-08-08

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature [Signature]

Rig Type (s) Geoprobe/track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

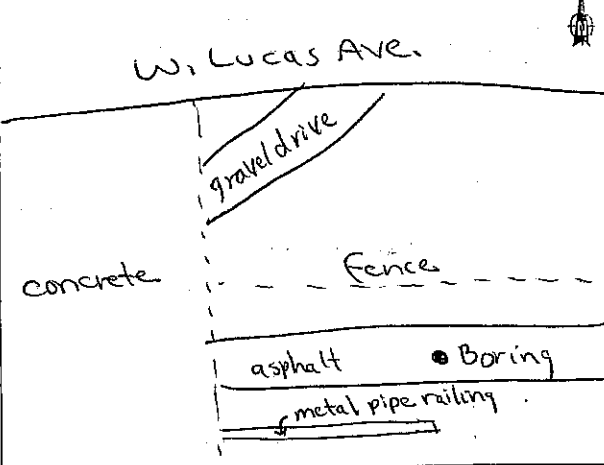
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole is 8'

Total Depth of Corehole is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|---------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | Sample 4.5' at 0932 |                  | SL                                            |                   |            |               |     |                 | 0.0           | 0.0      |
| 2            |                     |                  | S                                             |                   |            |               |     |                 | PPM           | PPM      |
| 3            |                     |                  | CL                                            |                   |            |               |     |                 |               |          |
| 4            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 5            | Sample 4.5' at 0932 |                  | SL                                            |                   |            |               |     |                 | 0.0           | 0.0      |
| 6            |                     |                  | S                                             |                   |            |               |     |                 | PPM           | PPM      |
| 7            |                     |                  | CL                                            |                   |            |               |     |                 |               |          |
| 8            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 9            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 10           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 11           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 12           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 13           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 14           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 15           |                     |                  |                                               |                   |            |               |     |                 |               |          |

TP =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                            | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                             | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" - Asphalt                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 6"-3' - Silty sand, trace clay, dk brown, lg to med grained, gravel, dry, dense             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 3'-4' - Sandy clay, dense, dk brown (3-3.5), Black (3.5-4), dry, fine grained, trace gravel | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | 4'-4.5' - Silty sand, trace clay, dk brown, lg to med grained, gravel, dry, dense           | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | 4.5'-5.5' - Silty sand, Black, dry, lg grained gravel, dense                                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        | 5.5'-8' - Sandy clay, green/gray, dense dry, fine grained                                   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        | TP = 8' bgs                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-GS-07-08Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7/11/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name m. WerthGeologist's Signature [Signature]Rig Type (s) Geoprobe / track rigDrilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

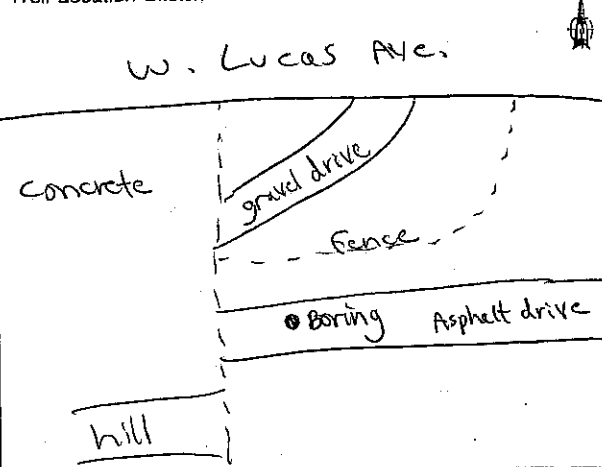
Total Depth of Borehole is 8'

Total Depth of Corehole is \_\_\_\_\_

## Water Level (TDIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|---------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | Sample 3.5' at 0924 |                  | SL                                            |                   |            |               |     |                 |               |          |
| 2            |                     |                  | S                                             |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 3            |                     |                  | CL                                            |                   |            |               |     |                 |               |          |
| 4            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 5            |                     |                  | SL                                            |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 6            |                     |                  | S                                             |                   |            |               |     |                 |               |          |
| 7            |                     |                  | CL                                            |                   |            |               |     |                 |               |          |
| 8            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 9            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 10           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 11           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 12           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 13           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 14           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 15           |                     |                  |                                               |                   |            |               |     |                 |               |          |

J.P.

NA

SCREENED WELL

NA

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                       | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                        | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" - Asphalt / Fill layer                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 6" - 2.5' - Silty sand w/ clay, gravel, med grained, dense, dry, dk brown              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 2.5' - 3' - Sandy clay, gray/green, dense, dry trace gravel, Fine grained              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 3' - 4' - Silty sand w/ gravel, black, dry sl. dense, med to lg grained                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 4' - 4.6' - Sandy clay, greenish/gray, dense, trace gravel, Fine grained; trace gravel | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | 4.6' - 5.5' - Silty sand w/ gravel, black, dry sl. dense, med to lg grained            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | 5.5' - 6' - Sandy clay, black                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        | 6' - 8' - Same, greenish/gray (6'-7'), brown (7-8), gravel (7-8), dense                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

TP = 8' bgs



# DRILLING LOG FOR ATSS-GS-06-04

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

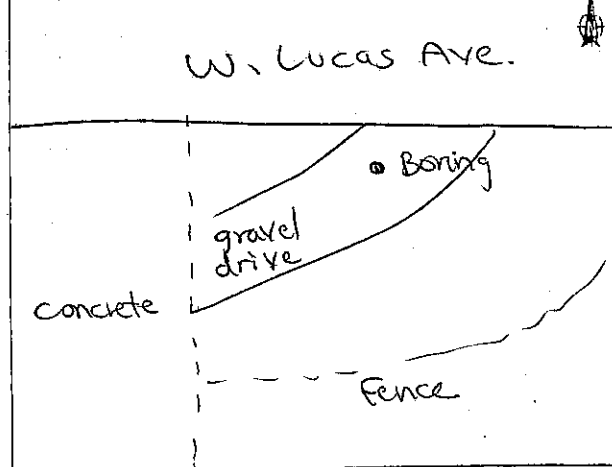
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile |    |   |    | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|---------------------|------------------|------------------------------|----|---|----|-------------------|------------|---------------|-----|-----------------|---------------|----------|
|              |                     |                  | CL                           | SL | S | GR |                   |            |               |     |                 |               |          |
| 1            | Sample 3.5' at 0.12 |                  | S                            |    |   |    |                   |            |               |     |                 |               | Borehole |
| 2            |                     |                  | SL                           |    |   |    |                   |            |               |     |                 | 0.0 PPM       |          |
| 3            |                     |                  | CL                           |    |   |    |                   |            |               |     |                 |               |          |
| 4            |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 5            |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 6            |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 7            |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 8            |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 9            |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 10           |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 11           |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 12           |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 13           |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 14           |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |
| 15           |                     |                  |                              |    |   |    |                   |            |               |     |                 |               |          |

TP =



NA

SCREENED WELL

NA

OPEN-HOLE WELL

Lock Number \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                  | Moisture Content |       |     |
|-----------|-------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                   | Dry              | Moist | Wet |
| 1         | 0-4" - silty sand, med brown, med to lg grained, gravel, dry      | ⊗                | ○     | ○   |
| 2         |                                                                   | ○                | ○     | ○   |
| 3         | 4" - 3' - same, dk brown, trace clay, gravel                      | ⊗                | ○     | ○   |
| 4         | 3' - 3.5' - silty sand, black, med to lg grained, gravel, dry     | ⊗                | ○     | ○   |
| 5         |                                                                   | ○                | ○     | ○   |
| 6         | 3.5' - 3.7' - Red brick                                           | ○                | ○     | ○   |
| 7         | 3.7' - 4' - sandy clay, dense, dry, gray/green, fine grained sand | ⊗                | ○     | ○   |
| 8         |                                                                   | ○                | ○     | ○   |
| 9         |                                                                   | ○                | ○     | ○   |
| 10        | TD = 4' bgs                                                       | ○                | ○     | ○   |
| 11        |                                                                   | ○                | ○     | ○   |
| 12        |                                                                   | ○                | ○     | ○   |
| 13        |                                                                   | ○                | ○     | ○   |
| 14        |                                                                   | ○                | ○     | ○   |
| 15        |                                                                   | ○                | ○     | ○   |



# DRILLING LOG FOR ATSS-GS-05-08

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/11/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

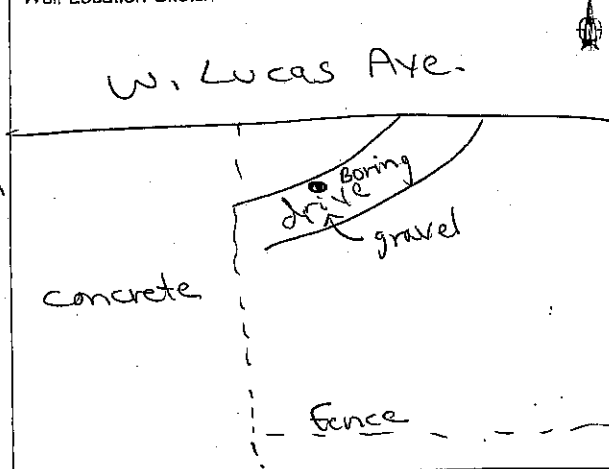
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number              | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments   |
|--------------|----------------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|------------|
| 1            | Sample<br>4'<br>at<br>0906 |                  | SL                                            |                   |            |               |     |                 |               | Borehole   |
| 2            |                            |                  | S                                             |                   |            |               |     |                 | 0.0           |            |
| 3            |                            |                  | CL                                            |                   |            |               |     |                 | PPM           |            |
| 4            |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 5            |                            |                  | CL                                            |                   |            |               |     |                 | 0.0           | 0.0<br>PPM |
| 6            |                            |                  | S                                             |                   |            |               |     |                 | PPM           |            |
| 7            |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 8            |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 9            |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 10           |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 11           |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 12           |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 13           |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 14           |                            |                  |                                               |                   |            |               |     |                 |               |            |
| 15           |                            |                  |                                               |                   |            |               |     |                 |               |            |

TD=

NA

NA

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION            | Moisture Content |       |     |
|-----------|---------------------------------------------|------------------|-------|-----|
|           |                                             | Dry              | Moist | Wet |
| 1         | 0-6"-Silty sand, dry, Fine grained, gravel, | ⊗                | ○     | ○   |
| 2         | Sl. dense, med brown                        | ○                | ○     | ○   |
| 3         | 6"-8"-same, dk brown                        | ○                | ○     | ○   |
| 4         | 8"-3.8'-Sandy clay, dense, dry, med         | ⊗                | ○     | ○   |
| 5         | brown/gray (3.0-3.5'), Black (3-3.8)        | ○                | ○     | ○   |
| 6         | 3.8-5.5-Clayey Sand, black, med to          | ⊗                | ○     | ○   |
| 7         | lg. grained, dense, dry                     | ○                | ○     | ○   |
| 8         | 5.5'-6'-Sandy clay, black, dense, dry       | ⊗                | ○     | ○   |
| 9         | 6'-8'-Brown/gray, sandy clay, dry           | ⊗                | ○     | ○   |
| 10        |                                             | ○                | ○     | ○   |
| 11        | TD = 8' bgs                                 | ○                | ○     | ○   |
| 12        |                                             | ○                | ○     | ○   |
| 13        |                                             | ○                | ○     | ○   |
| 14        |                                             | ○                | ○     | ○   |
| 15        |                                             | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-GS-03-09

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/11/09

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. Werth

Geologist's Signature Mary West

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole is 9

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

W. Lucas Ave.

drive

Fence

Boring ①

concrete

hill drive

[illegible]

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC

☐ Stainless Steel

Pack Type/Size:

☐ Sand

☐ Gravel

☐ Natural

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

OPEN-HOLE WELL

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft | NARRATIVE LITHOLOGIC DESCRIPTION                             | Moisture Content                 |                       |                                  |
|----------|--------------------------------------------------------------|----------------------------------|-----------------------|----------------------------------|
|          |                                                              | Dry                              | Moist                 | Wet                              |
| 1        | 0-1' - concrete                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 2        | 1'-1.5' - Sandy clay w/ gravel, med brown, sl. dense, dry    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| 3        |                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 4        | 1.5'-2.5' - same, Brown/gray/trace black                     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| 5        | 2.5'-2.8' - Red brick                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 6        | 2.8' - 4' - Sandy clay, black/dk brown, sl. dense, dry       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| 7        |                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 8        | 4' - 8' - Sand, trace gravel, loose, wet, black, med grained | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| 9        |                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 10       | 8' - 9' - Sandy clay, black, dense, wet                      | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| 11       | Shale at 9'                                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 12       |                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 13       | TD = 9' bgs                                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 14       |                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 15       |                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |

DRILLING LOG FOR ATSS-GS-02-08Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/11/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name m. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe / track rigDrilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

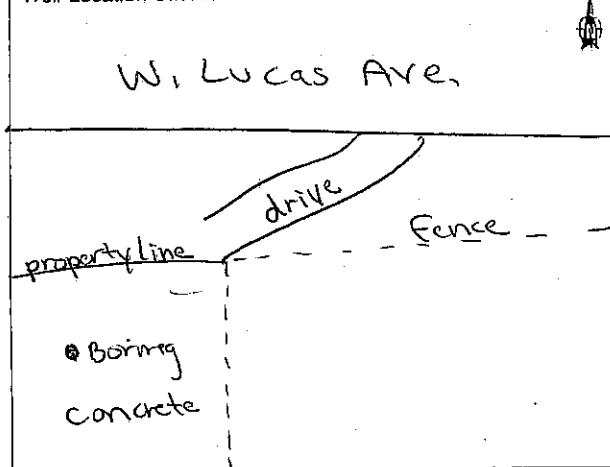
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sample 05 at 0839 |                  | S                                          |                   |            |               |     |                 |                      |                      |
| 2            |                   |                  | CL                                         |                   |            |               |     |                 | 0.0 PPM              | 0.0 PPM              |
| 3            |                   |                  | SL                                         |                   |            |               |     |                 |                      |                      |
| 4            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 PPM              | 0.0 PPM              |
| 6            |                   |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 7            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |

TD=

NA

SCREENED WELL

NA

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft | NARRATIVE LITHOLOGIC DESCRIPTION                          | Moisture Content                 |                       |                       |
|----------|-----------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|          |                                                           | Dry                              | Moist                 | Wet                   |
| 1        | 0-4.0' - concrete                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2        | 1'-1.5' - sandy clay, med brown, dense, dry, trace gravel | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4        | 1.5-1.8' - Silty sand, black, dry, dense, lg. grained     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6        | 1.8'-2.0' - oven Brick, lt. tan                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7        | 2.0'-5.0' - Silty sand, black, sl. dense, dry             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9        | 5.0'-8.0' - Sandy clay, black (5'-7'), gray/Brown (7'-8') | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10       |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11       |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12       | TD = 8' bgs                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13       |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14       |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15       |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-SP-68-1.5

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name Mr. Schweitzer

Geologist's Name Mr. Werth

Geologist's Signature my werth

Rig Type (s) S

Drilling Method (s) hard auger

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

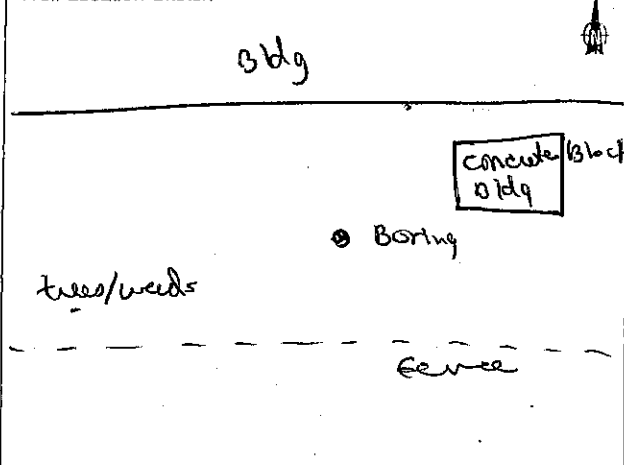
Total Depth of Borehole Is 1.8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|---------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            |               |                  | S                                             |                   |            |               |     |                 | PTD           | Borehole |
| 2            |               |                  | S.L                                           |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 4            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 5            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 6            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 7            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 8            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 9            |               |                  |                                               |                   |            |               |     |                 |               |          |
| 10           |               |                  |                                               |                   |            |               |     |                 |               |          |
| 11           |               |                  |                                               |                   |            |               |     |                 |               |          |
| 12           |               |                  |                                               |                   |            |               |     |                 |               |          |
| 13           |               |                  |                                               |                   |            |               |     |                 |               |          |
| 14           |               |                  |                                               |                   |            |               |     |                 |               |          |
| 15           |               |                  |                                               |                   |            |               |     |                 |               |          |

1.8'

Sample  
1.5'  
@  
0938



**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

**Quantity of Material Used:**

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

**Pack Type/Size:**

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION             | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                              | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5-Silty Sand, lt brown/red brown,        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | fine gravel, dry, gravel, (trace clay at 6") | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 1.5-1.8-Same, more clay.                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TID=1.8'                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-SP-10-2.5

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) NA

Drilling Method (s) Hand Auger

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole is 2.5'

Total Depth of Corehole is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch

Bldg

Boring •

pit

soil/weeds/trees

fence

Brick Bldg

| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | Sample 2' at 0909 |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2            |                   |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                   |                  | CL                                         |                   |            |               |     |                 |               |          |
| 4            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 6            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 7            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                   |                  |                                            |                   |            |               |     |                 |               |          |

2.5 = TO

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

OPEN-HOLE WELL

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                              | Moisture Content |       |     |
|-----------|-------------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                               | Dry              | Moist | Wet |
| 1         | 0 - 2.2' - Silty sand, dk brown, dry, fine grained, sl. dense, gravel + shale | ⊗                | ○     | ○   |
| 2         | ≈ 2', some blk burnt pieces (1/6")                                            | ○                | ○     | ○   |
| 3         | 2.2' - 2.5' - Sandy clay, dense, tan/black, gravel, dry, fine grained.        | ⊗                | ○     | ○   |
| 4         |                                                                               | ○                | ○     | ○   |
| 5         |                                                                               | ○                | ○     | ○   |
| 6         |                                                                               | ○                | ○     | ○   |
| 7         | TD = 2.5' bgs                                                                 | ○                | ○     | ○   |
| 8         |                                                                               | ○                | ○     | ○   |
| 9         |                                                                               | ○                | ○     | ○   |
| 10        |                                                                               | ○                | ○     | ○   |
| 11        |                                                                               | ○                | ○     | ○   |
| 12        |                                                                               | ○                | ○     | ○   |
| 13        |                                                                               | ○                | ○     | ○   |
| 14        |                                                                               | ○                | ○     | ○   |
| 15        |                                                                               | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-SP-11-03

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/20/

Drilling Company Northnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature My Uler II

Rig Type (s) NA

Drilling Method (s) Hand Auger

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Spill Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 3'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch



Bldg

concrete deck

- Boring

frees/soil/weeds

[illegible]

NA

NA

SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                             | Moisture Content                 |                       |                       |
|-----------|------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                              | Dry                              | Moist                 | Wet                   |
| 1         | 0-2.5' - Silty sand, dk brown, dry, fine grained, dense, gravel              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 2.5' - 3' - Sandy clay, black/greenish/gray, sh. dense, gravel, cinders, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | TD = 3' bgs                                                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-SP-12-01

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) NA

Drilling Method (s) NA / shovel

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

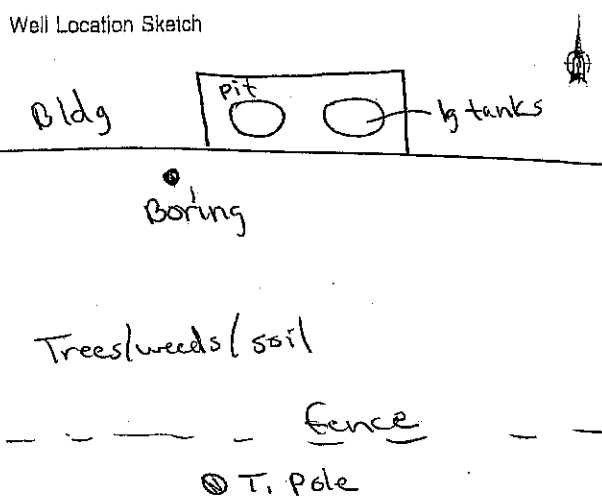
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 1'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TDIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level( Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

## Well Location Sketch



| Depth(Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|-------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1           | Sample 1' at 0834 |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2           |                   |                  | S                                          |                   |            |               |     |                 | 0.0 PPM       | 0.0 ppm  |
| 3           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 4           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 5           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 6           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 7           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 8           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 9           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 10          |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 11          |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 12          |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 13          |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 14          |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 15          |                   |                  |                                            |                   |            |               |     |                 |               |          |

TP =

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pallats \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                              | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-1'- Silty sand, dry, Fine-grained, dk brown, dense, gravel. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | TD = 1' bgs                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | Refusal / railroad tie / gravel                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-SP-16-04

Project Name Altech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

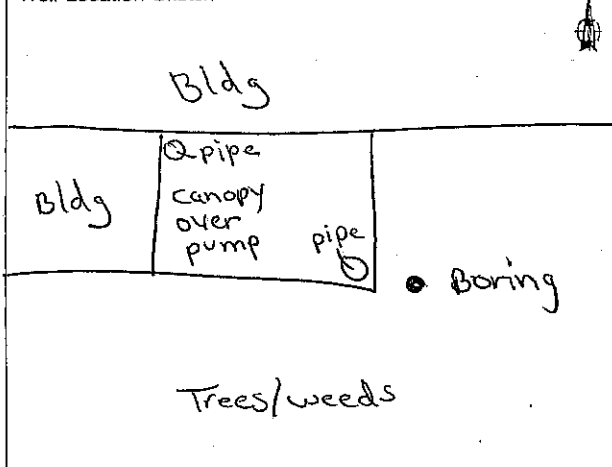
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | Sample 0.66 at 0802 |                  | SL                                         |                   |            |               |     |                 |               |          |
| 2            |                     |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                     |                  | CL                                         |                   |            |               |     |                 |               |          |
| 4            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 6            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 7            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                     |                  |                                            |                   |            |               |     |                 |               |          |

TP =



NA

NA

SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                                                                         | Moisture Content                 |                       |                       |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                                                                          | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5' - Silty sand, med brown, dry, fine grained, sh. dense (med brown 0-5"), (black 5"-9" some burnt pieces), (reddish brown 9"-1.5'). | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 1.5' - 4' - Sandy clay, gray/red/brown, dense, fine grained, dry                                                                         | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TD = 4' bgs                                                                                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-SP-13-08

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature May Werd

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

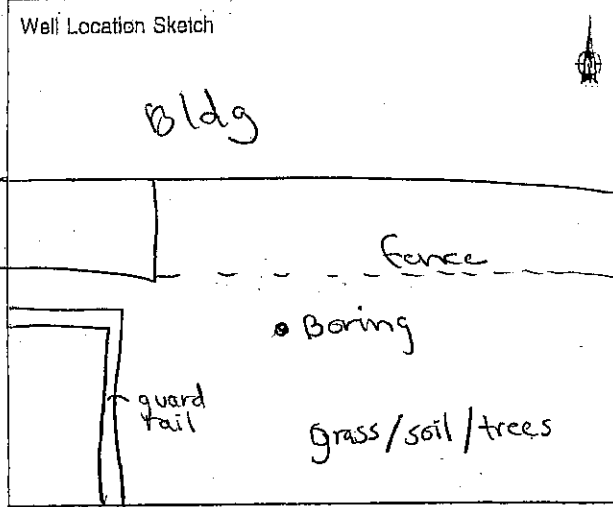
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 8'

Total Depth of Corehole is \_\_\_\_\_

[illegible]

### Well Location Sketch

[illegible]

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC

☐ Stainless Steel

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft | NARRATIVE LITHOLOGIC DESCRIPTION                           | Moisture Content                 |                       |                       |
|----------|------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|          |                                                            | Dry                              | Moist                 | Wet                   |
| 1        | 0-3" - Silty Sand, dk brown, Fine grained, dry, slt dense  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2        |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3        | 3" - 4' - same, trace clay, black nugget of burnt material | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4        |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5        | 4' - 8' - Sandy clay, gray/Brown, trace gravel, dense, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6        |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7        |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8        | TD = 8' bgs                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9        |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10       |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11       |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12       |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13       |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14       |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15       |                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-SP-14-08

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

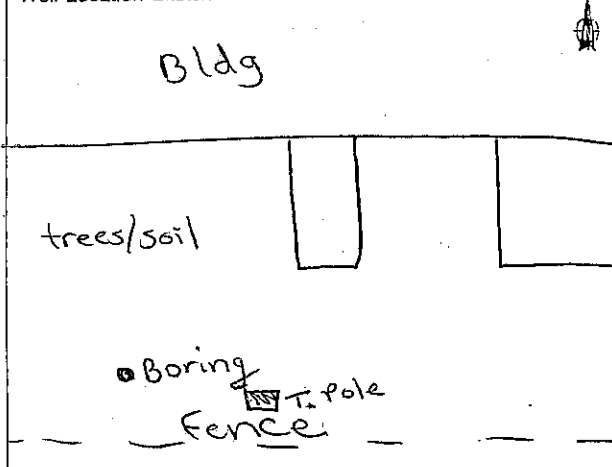
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TDIC)

| Date | Time | Level( Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth(Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNW/OVA (ppm)<br>PID | Comments<br>Borehole |
|-------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1           | Sample 5' at 0800 |                  | SL                                         |                   |            |               |     |                 | 0.0                  | 0.0 ppm              |
| 2           |                   |                  | S                                          |                   |            |               |     |                 | ppm                  |                      |
| 3           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 4           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5           |                   |                  | S                                          |                   |            |               |     |                 | 0.0                  |                      |
| 6           |                   |                  | CL                                         |                   |            |               |     |                 | ppm                  |                      |
| 7           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9           |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10          |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11          |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12          |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13          |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14          |                   |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15          |                   |                  |                                            |                   |            |               |     |                 |                      |                      |

TP =

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION         | Moisture Content                 |                       |                       |
|-----------|------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                          | Dry                              | Moist                 | Wet                   |
| 1         | 0-5' - Silty sand, dk brown, gravel,     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | fine grained, sl. dense, dry, trace clay | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 5'-7' - sand, gravel, med brown, fine to | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | med grained, dry, sl. loose to sl. dense | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 7'-8' - Sandy clay, dense, gray/green,   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | trace gravel                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TID = 8' bgs                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-SP-09-1.5

Project Name AITech

Site Location Dunkirk, NY

Date Started/Finished 7/12/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature *My Ward*

Rig Type (s) NA

Drilling Method (s) Hand Auger

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 128'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch



Bldg

• Borna

Trees/weeds/soil

Fence

④ T. pgle

② T. p66

[illegible]

NA

NA

SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellats \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 186 and 187 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                         | Moisture Content                 |                       |                       |
|-----------|------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                          | Dry                              | Moist                 | Wet                   |
| 1         | 0-1' - Silty sand, dk brown, fine-grained, dry, gravel, sl. dense, trace clay, shale ~1' | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1'-1.5' - same, more clay + black burnt pieces mixed in, med brown/black                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TD = 1.5' bgs                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-NP-02-04

Project Name A1 Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch

Mckinley Ave.



W. Lucas Ave.

Boring a grass

sidewalk

(grass)

fence

| Depth (Feet) | Sample Number                   | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|---------------------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sampled<br>1.5 ft<br>at<br>1337 |                  | SL                                         |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm              |
| 2            |                                 |                  | S                                          |                   |            |               |     |                 |                      |                      |
| 3            |                                 |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 4            |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 6            |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 7            |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                                 |                  |                                            |                   |            |               |     |                 |                      |                      |

TP =



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION           | Moisture Content                 |                       |                       |
|-----------|--------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                            | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" - Silty sand, med brown, gravel,      | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | med grained sand, dry, st. dense           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 6" - 1' - Same, trace clay                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | 1' - 1.5' - Black ash                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 1.5' - 4' - Sandy clay, gray to lt. brown, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | dense, fine grained sand, dry              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TP = 4' bgs                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR AT35-NP-15-07

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature my work

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 7'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

W. Lucas Ave.

grass

Sidewalk

Fence

• Boring

74

Bldg

pump  
house

| Depth(Feet) | Sample Number     | Blows on Sampler |  | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br><br>PID | Comments<br><br>Borehole |
|-------------|-------------------|------------------|--|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|--------------------------|--------------------------|
| 1           | 2' at 1530 sample |                  |  | S<br>SL                                       |                   |            |               |     |                 | 0.0<br>PPM               | 0.0<br>PPM               |
| 2           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 3           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 4           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 5           |                   |                  |  | S<br>CL                                       |                   |            |               |     |                 | 0.6<br>PPM               | 0.0<br>PPM               |
| 6           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 7           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 8           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 9           |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 10          |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 11          |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 12          |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 13          |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 14          |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |
| 15          |                   |                  |  |                                               |                   |            |               |     |                 |                          |                          |

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                              | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-0.6" - Silty sand, Med. brown, med. grained, dry, sl. dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 0.6" - 7' - Sandy clay, Med. brown, dense, dry                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | Fine grained sand                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | TD = 7' bgs                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-07-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/19/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. Werth

Geologist's Signature On Weill

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 9

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

• T. pole

W. Lucas Ave.

grass • Boring

sidewalk

9 vaSS

Fence

asphalt pad.

[illegible]

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                              | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-1' - Silty sand, trace gravel, med. brown, dry, sl-dense, med. grained sand | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | 1'-4' - Sandy clay, dense, dry, black to dk. brown/gray, fine grained sand    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TP = 4' bgs                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                        | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                         | Dry                              | Moist                 | Wet                   |
|           | 0 - 0.2" - Gravel surface                                                               |                                  |                       |                       |
| 1         | 0.2" - 3.5' - Sandy clay, dark brown with Greenish/gray, dense, fine grained sand, dry. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                         | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 3.5 - 4' - Sandy clay, tan, dense, dry, fine grained sand, brick pieces                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TD = 4' bgs                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

\* moved 10' south of IRM backfill location, could not get beyond 2' of concrete.



# DRILLING LOG FOR ATSS-ID-12

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nothagle

Driller's Name S. Schweitzer

Geologist's Name m. werth

Geologist's Signature m. werth

Rig Type (s) Geoprobe (track rig)

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

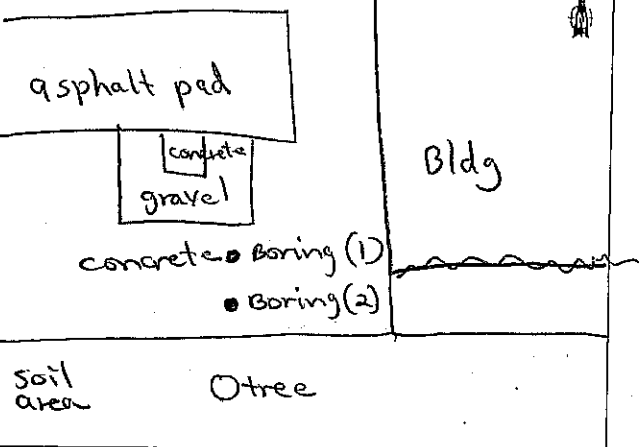
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is \_\_\_\_\_

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments     |
|--------------|---------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|--------------|
| 1            |               |                  | IRM Backfill (not sampled)                 |                   |            |               |     |                 | PID           | PID/Borehole |
| 2            |               |                  |                                            |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm      |
| 3            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 4            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 5            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 6            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 7            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 8            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 9            |               |                  |                                            |                   |            |               |     |                 |               |              |
| 10           |               |                  |                                            |                   |            |               |     |                 |               |              |
| 11           |               |                  |                                            |                   |            |               |     |                 |               |              |
| 12           |               |                  |                                            |                   |            |               |     |                 |               |              |
| 13           |               |                  |                                            |                   |            |               |     |                 |               |              |
| 14           |               |                  |                                            |                   |            |               |     |                 |               |              |
| 15           |               |                  |                                            |                   |            |               |     |                 |               |              |

TO =



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION       | Moisture Content |       |     |
|-----------|----------------------------------------|------------------|-------|-----|
|           |                                        | Dry              | Moist | Wet |
|           | 0-4" concrete surface                  |                  |       |     |
| 1         | IRM Backfill / 4" to 4' / not sampled. | ○                | ○     | ○   |
| 2         |                                        | ○                | ○     | ○   |
| 3         | TD = 4' bgs                            | ○                | ○     | ○   |
| 4         |                                        | ○                | ○     | ○   |
| 5         |                                        | ○                | ○     | ○   |
| 6         |                                        | ○                | ○     | ○   |
| 7         |                                        | ○                | ○     | ○   |
| 8         |                                        | ○                | ○     | ○   |
| 9         |                                        | ○                | ○     | ○   |
| 10        |                                        | ○                | ○     | ○   |
| 11        |                                        | ○                | ○     | ○   |
| 12        |                                        | ○                | ○     | ○   |
| 13        |                                        | ○                | ○     | ○   |
| 14        |                                        | ○                | ○     | ○   |
| 15        |                                        | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-SP-02-08Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/9/07Drilling Company NothagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe/track rigDrilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

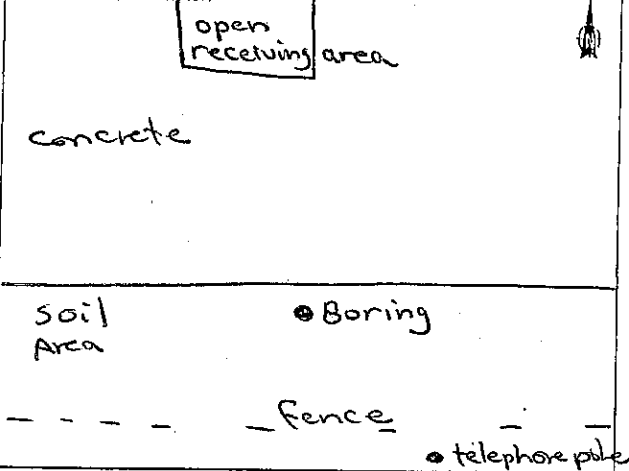
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            |                     |                  | S                                          |                   |            |               |     |                 | PID           | Borehole |
| 2            |                     |                  | SL                                         |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 3            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 4            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 5            | - sample at 5' 1312 |                  | S                                          |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 6            |                     |                  | CL                                         |                   |            |               |     |                 |               |          |
| 7            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                     |                  |                                            |                   |            |               |     |                 |               |          |

TP =

NA

NA

SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION               | Moisture Content |       |     |
|-----------|------------------------------------------------|------------------|-------|-----|
|           |                                                | Dry              | Moist | Wet |
|           | 0-6" Silty sand, med. brown, dry, med. grained |                  |       |     |
| 1         | Sand, sl. dense                                | X                |       |     |
| 2         | 6"-7" Sand stone                               |                  |       |     |
| 3         | 7"-4' Silty sand, med brown, gravel, sl. dense | X                |       |     |
| 4         | dry, Med. grained sand                         |                  |       |     |
| 5         | 4'-8' Sandy clay, black (4'-5') grayish/       | X                |       |     |
| 6         | green to grayish brown (5'-8'), dense,         |                  |       |     |
| 7         | Fine grained sand, dry, trace gravel           |                  |       |     |
| 8         | (5'-8'),                                       |                  |       |     |
| 9         |                                                |                  |       |     |
| 10        | TD = 8' bgs                                    |                  |       |     |
| 11        |                                                |                  |       |     |
| 12        |                                                |                  |       |     |
| 13        |                                                |                  |       |     |
| 14        |                                                |                  |       |     |
| 15        |                                                |                  |       |     |

DRILLING LOG FOR ATSS-SP-04-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nathagale

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature M. W. Weyl

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

concrete

gravel

Bldg

Soil  
Area

Boring

fence

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                           | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                            | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" wood (railroad tie) <sup>(mw)</sup>                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 6"-8" Silty sand, reddish brown to med brown, Med. grained, dry, sl. dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 8"-2.5' Black ash                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 2.5'-3.0'- Sandy clay, dark gray, dense, dry                               | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | Fine grained sand                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 3.0'-4.0'- Sandy clay, light gray, dense, dry                              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         | Fine grained sand                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | TP = 4' bgs                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-SP-06-04

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Northagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch

asphalt pad  
concrete

Bldg

Boring O Tree

soil area

| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | sample 2' at 1254 |                  | S                                          |                   |            |               |     |                 | PID           | Borehole |
| 2            |                   |                  | CL                                         |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                   |                  | SL                                         |                   |            |               |     |                 | 0.8 ppm       |          |
| 4            |                   |                  |                                            |                   |            |               |     |                 | PPM (2-3')    |          |
| 5            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 6            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 7            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                   |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                   |                  |                                            |                   |            |               |     |                 |               |          |

TD =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

**Quantity of Material Used:**

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

**Pack Type/Size:**

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                                                  | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                                                   | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" silty sand, trace gravel, med. brown, med. grained sand, dry                                                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 6"-2' Black ash                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 2'-3' <del>clayey sand</del> <sup>med</sup> clayey sand, med. brown/Black, dense, dry, med. grained, trace gravel | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 3'-4' - Sandy clay, gray/black, dense, dry, fine grained sand,                                                    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | TD = 4' bgs                                                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-SP-01-08

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Alotnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature My Weir

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

Concrete

well

as well

• Boring

Fence

[illegible]



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                | Moisture Content                    |                          |                          |
|-----------|-------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
|           |                                                 | Dry                                 | Moist                    | Wet                      |
| 1         | 0-6" Silty sand, med brown, med grained         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2         | sand, dry, sl. dense, trace gravel              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3         | 6"-5' - Sand (Fill) med to reddish brown,       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4         | med grained, trace gravel, sl. dense            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 5         | to sl. loose, dry                               | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6         | 5'-7' - Black ash / rust color at 7.5' (for 2") | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7         | 1.5'-8' - Sandy clay, gray, dense, dry          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8         | Fine grained sand                               | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 9         |                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 10        | TD = 8' bgs                                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11        |                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 12        |                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 13        |                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14        |                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15        |                                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |

DRILLING LOG FOR ATSS-ID-13-02Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7/9/07Drilling Company NothwagleDriller's Name J. SchweitzerGeologist's Name m. WerthGeologist's Signature m. WerthRig Type (s) Geoprobe / track rigDrilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

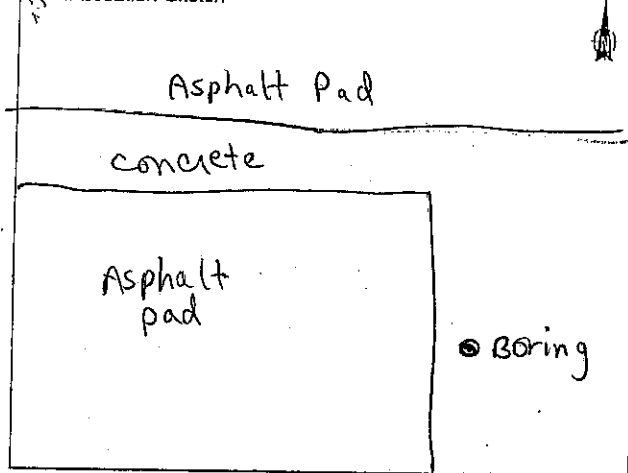
Total Depth of Borehole Is 2'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TDIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number        | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole PID |
|--------------|----------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|--------------------------|
| 1            | Sample at 12.40 (2') |                  | Black Ash                                  |                   |            |               |     |                 | 0.0 ppm              | 0.0 ppm                  |
| 2            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 3            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 4            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 5            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 6            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 7            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 8            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 9            |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 10           |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 11           |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 12           |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 13           |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 14           |                      |                  |                                            |                   |            |               |     |                 |                      |                          |
| 15           |                      |                  |                                            |                   |            |               |     |                 |                      |                          |

TD=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION | Moisture Content                 |                       |                       |
|-----------|----------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                  | Dry                              | Moist                 | Wet                   |
|           | 0 - 4" = concrete surface        |                                  |                       |                       |
| 1         | 4" - 2' = Black ash              | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | refusal at 2' bgs.               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | TD = 2' bgs                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-14-04Project Name ATechSite Location: Dunkirk, NYDate Started/Finished 7/9/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe / TrackingDrilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

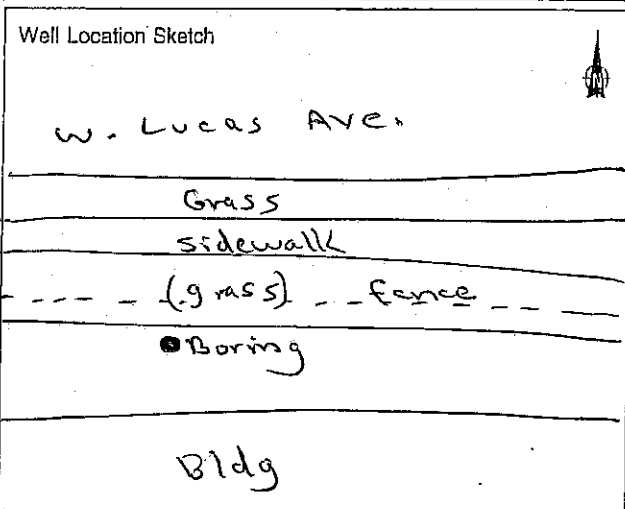
Total Depth of Borehole is 4'

Total Depth of Corehole is \_\_\_\_\_

## Water Level (TDIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number           | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|-------------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | sample<br>2' at<br>1550 |                  | S                                          |                   |            |               |     |                 | PID           | Borehole |
| 2            |                         |                  | SL                                         |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                         |                  | CL                                         |                   |            |               |     |                 |               |          |
| 4            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 6            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 7            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                         |                  |                                            |                   |            |               |     |                 |               |          |

TD=

NS

NS

**SCREENED WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                                    | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                                     | Dry                              | Moist                 | Wet                   |
| 1         | 0-1' - Silty sand, trace clay, trace gravel, fine to med grained, med to dark brown, dry, sl. dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1-4' - Sandy clay, dense, dry, dark to med brown, fine grained sand                                 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TD = 4' bgs                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



## DRILLING LOG FOR

ATSS-NP-01-04

Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7/9/07Drilling Company NoragleDriller's Name J. SchweitzerGeologist's Name m. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe/track rigDrilling Method (s) macrocore 2-1/2"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

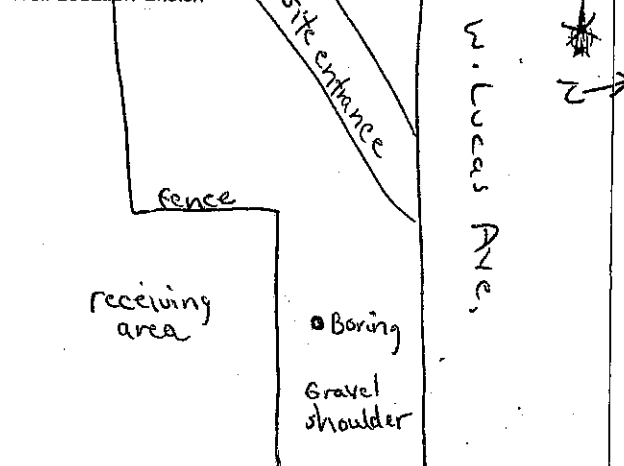
Total Depth of Borehole Is \_\_\_\_\_

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number              | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|----------------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | sample<br>2'<br>at<br>1390 |                  | SL                                         |                   |            |               |     |                 |                      |                      |
| 2            |                            |                  | S                                          |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 3            |                            |                  | CL                                         |                   |            |               |     |                 | ppm                  | ppm                  |
| 4            |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 6            |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 7            |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                            |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                            |                  |                                            |                   |            |               |     |                 |                      |                      |

TP =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                  | Moisture Content                    |                          |                          |
|-----------|---------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
|           |                                                   | Dry                                 | Moist                    | Wet                      |
| 1         | 0-1' Silty sand, trace of clay, gray/med. brown   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2         | dry, gravel, med to lg grained sand, dense        | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3         | 1'-2' Sandy clay, black, dense, dry, fine grained | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4         | 2'-4' Same, med brown to black                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 5         |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6         | TD = 4' bgs                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 7         |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8         |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 9         |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 10        |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11        |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 12        |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 13        |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14        |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15        |                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |

DRILLING LOG FOR ATSS-NP-09-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature *Mr. Weid*

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore/2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

W. Lucas Ave.

grass

sidewalk

Boring • (grass)

Fence

o p r e

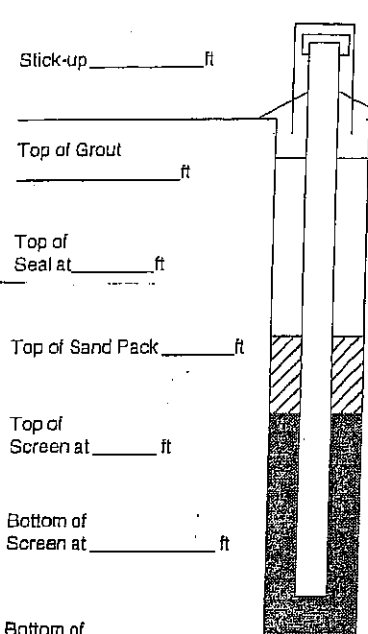
asphalt

Bldg

[illegible]



**SCREENED WELL**



**OPEN-HOLE WELL**



Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                 | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5' - Silty sand, sl. dense, med brown, trace gravel, dry, Med. grained sand | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 1.5' - 4' - Sandy clay, dense, dry, Fine grained sand, med brown                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TD = 4' bgs                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                       | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                        | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5' - silty sand, med. brown, trace gravel, sl. dense, med. grained, dry            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 1.5-4' - sandy clay, dense, dry, fine grained sand, tan/brown to black (at 1.5 to 2'). | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | TD = 4' bgs                                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-NP-06-04

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

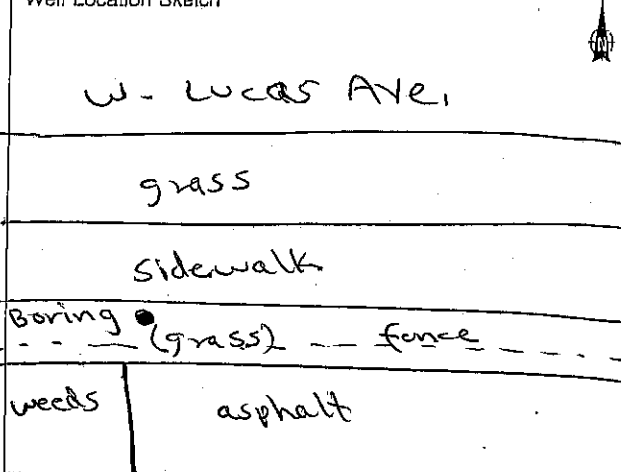
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            | Sample 1.5' at 1435 |                  | S<br>CL                                    |                   |            |               |     |                 | 0.0<br>ppm           | 0.0<br>ppm           |
| 2            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 3            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 4            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 6            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 7            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 8            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |                     |                  |                                            |                   |            |               |     |                 |                      |                      |

TP=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                          | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                           | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5' - Sand, trace clay, trace gravel, dk. brown to black, dry, sl. dense, med. grained | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.5' - 2.5' - Sandy clay, gray, dense, dry, Fine grained sand                             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 2.5' - 4' - same, tan to lt. brown                                                        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TD = 4' bgs                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-05-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/9/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature M. Weir

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

### Well Location Sketch

W. Lucas Ave.

• Boring grass

st de wolk

Fence

weeds

asphalt  
pad

[illegible]

NA

NA

### SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

### OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                  | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                   | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5' Silty sand, trace clay, dk brown to black, trace gravel, med. grained, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.5-4' - Sandy clay, gray to lt. brown, dense, dry, fine grained sand             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TD = 4' bgs                                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-04-04Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/9/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name m. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe Track rigDrilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

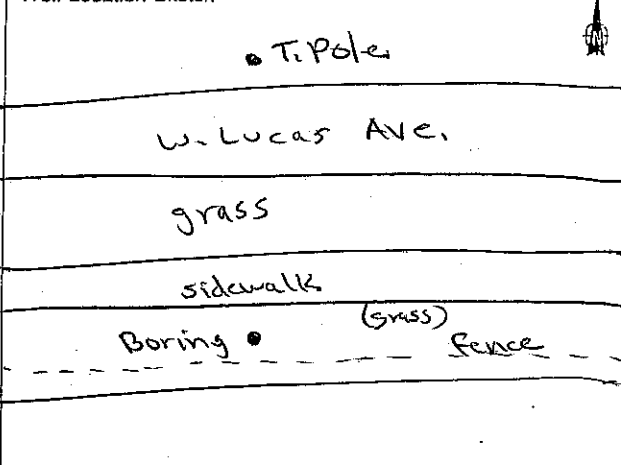
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level( Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth(Feet) | Sample Number       | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|-------------|---------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1           | Sample 2.5' at 1303 |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2           |                     |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3           |                     |                  | CL                                         |                   |            |               |     |                 |               |          |
| 4           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 5           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 6           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 7           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 8           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 9           |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 10          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 11          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 12          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 13          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 14          |                     |                  |                                            |                   |            |               |     |                 |               |          |
| 15          |                     |                  |                                            |                   |            |               |     |                 |               |          |

TP=



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pallots \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION              | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-6" - Silty sand, dark brown, dry, sl. dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | med. grained sand                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 6"-1' - Sandy clay, dk brown, dense, dry,     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | Fine grained sand                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 1'-4' - Same, med brown to tan.               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | TP = 4' bgs                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-03-04Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/9/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature [Signature]Rig Type (s) Geoprobe / track rigDrilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TO/C)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

Well Location Sketch 208 house • T.PoleW. Lucas Ave.grassSidewalkBoring • (grass)Fence

| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br>PID | Comments<br>Boring |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|--------------------|
| 1            | 1354 sample at 4' |                  | SL                                         |                   |            |               |     |                 |                      |                    |
| 2            |                   |                  | S                                          |                   |            |               |     |                 | 0.0                  | 0.0                |
| 3            |                   |                  | CL                                         |                   |            |               |     |                 | ppm                  | ppm                |
| 4            |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 5            |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 6            |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 7            |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 8            |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 9            |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 10           |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 11           |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 12           |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 13           |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 14           |                   |                  |                                            |                   |            |               |     |                 |                      |                    |
| 15           |                   |                  |                                            |                   |            |               |     |                 |                      |                    |

TD=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION             | Moisture Content                 |                       |                       |
|-----------|----------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                              | Dry                              | Moist                 | Wet                   |
| 1         | 6-8" - Silty sand, trace clay, trace gravel, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | dark brown, dry, Med. grained, sl. dense     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 8" - 4' - Sandy clay, lt. brown, dense, dry  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | Fine grained sand                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | TD = 4' bgs                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-WPA-04-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/16/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. A. Werth

Geologist's Signature Ming W. Lee

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

outside

offices

concrete

Boring

Overb support

West production  
area

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellats \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION           | Moisture Content                 |                       |                       |
|-----------|--------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                            | Dry                              | Moist                 | Wet                   |
| 1         | 0-4" concrete                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 4"-4' - Sandy clay, Med brown, dense, dry, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | Fine-grained sand                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TD = 4' 6 1/2                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-WPA-05-04

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. Werth

Geologist's Signature m. Werth

Rig Type (s) Geoprobe Attack rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

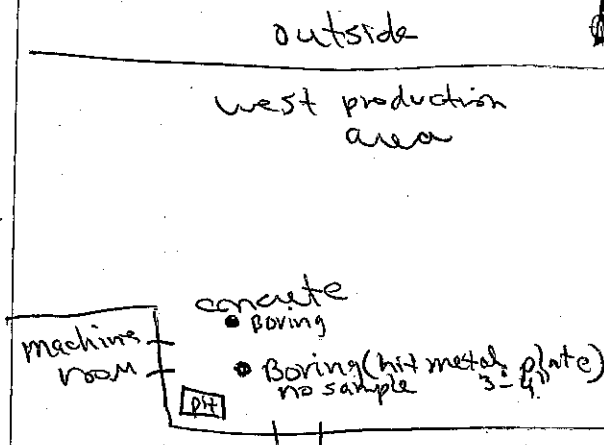
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |

Well Location Sketch



| Depth (Feet) | Sample Number    | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNW/OVA (ppm) | Comments |
|--------------|------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | 2' at 1338 + Dup |                  | S                                          |                   |            |               |     |                 | PID           | Borehole |
| 2            |                  |                  | CL                                         |                   |            |               |     |                 | 0.10 PPM      | 0.10 PPM |
| 3            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 4            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 6            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 7            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                  |                  |                                            |                   |            |               |     |                 |               |          |

TP=

N/A

N/A

**SCREENED WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION            | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                             | Dry                              | Moist                 | Wet                   |
| 1         | 0-4" concrete                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 4"-4' sandy clay, dark brown, gravel, dense | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | dry, fine grained                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TD-4'                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR A TSS-EPA-01-12

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

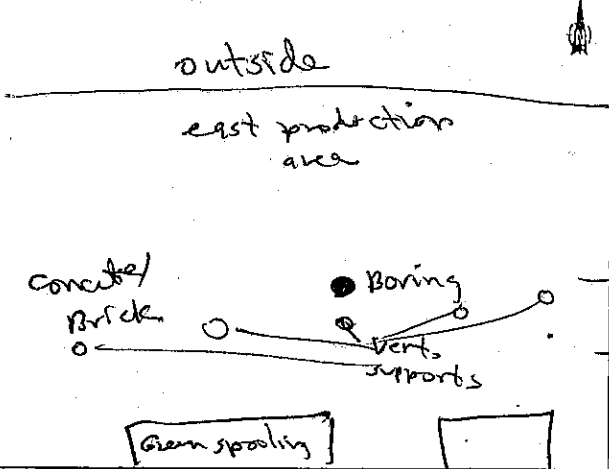
Total Depth of Borehole Is 12'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIG)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number    | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm) | Comments |
|--------------|------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | Sample 3<br>1140 |                  | SL                                         |                   |            |               |     |                 |               | Borehole |
| 2            |                  |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       |          |
| 3            |                  |                  |                                            |                   |            |               |     |                 | 0.0 ppm       |          |
| 4            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                  |                  | SL                                         |                   |            |               |     |                 |               | 0.0 ppm  |
| 6            |                  |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       |          |
| 7            |                  |                  | CL                                         |                   |            |               |     |                 |               |          |
| 8            |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                  |                  | S                                          |                   |            |               |     |                 |               | 0.0 ppm  |
| 10           |                  |                  | CL                                         |                   |            |               |     |                 | 0.0 ppm       |          |
| 11           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                  |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                  |                  |                                            |                   |            |               |     |                 |               |          |

TD=



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                       | Moisture Content |       |     |
|-----------|----------------------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                                        | Dry              | Moist | Wet |
| 1         | 0-6" Silty sand, gravel, med brown, <sup>1/2" to 1"</sup> sl. dense, dry, fine grained | ⊗                | ○     | ○   |
| 2         |                                                                                        | ○                | ○     | ○   |
| 3         | 6"-3- same, gravel 0-1/2", trace clay                                                  | ⊗                | ○     | ○   |
| 4         | 3-4- Black wood/silty sand, dry, sl. dense, med grained, gravel                        | ⊗                | ○     | ○   |
| 5         |                                                                                        | ○                | ○     | ○   |
| 6         | 4-12 Sandy clay, Black /grayish-green, dense, dy, fine-grained                         | ⊗                | ○     | ○   |
| 7         |                                                                                        | ○                | ○     | ○   |
| 8         |                                                                                        | ○                | ○     | ○   |
| 9         | TP=12'                                                                                 | ○                | ○     | ○   |
| 10        |                                                                                        | ○                | ○     | ○   |
| 11        |                                                                                        | ○                | ○     | ○   |
| 12        |                                                                                        | ○                | ○     | ○   |
| 13        |                                                                                        | ○                | ○     | ○   |
| 14        |                                                                                        | ○                | ○     | ○   |
| 15        |                                                                                        | ○                | ○     | ○   |



# DRILLING LOG FOR ATSS-NP-24-04

Project Name Al Tech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. werth

Geologist's Signature m. werth

Rig Type (s) Geoprobe Track Rig

Drilling Method (s) Macrocore 2.125"

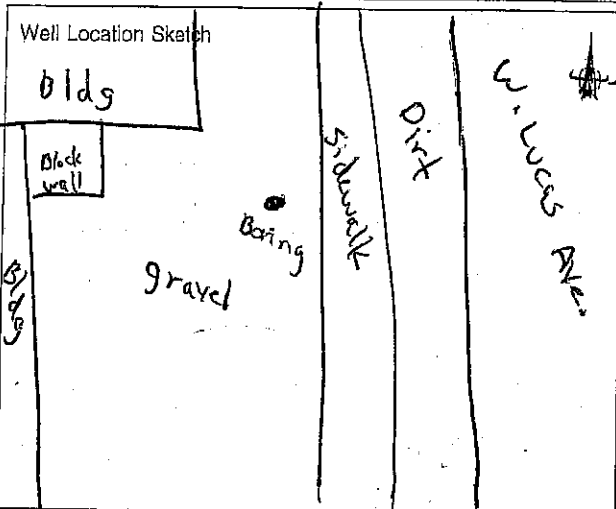
Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |



| Depth (Feet) | Sample Number                      | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration<br>Times | Run<br>Number | Core<br>Recovery | RQD | Fracture<br>Sketch | HNu/OVA<br>(ppm) | Comments   |
|--------------|------------------------------------|------------------|-----------------------------------------------|----------------------|---------------|------------------|-----|--------------------|------------------|------------|
| 1            | Sample<br>2'<br>at<br>0905<br>+04P |                  | S                                             |                      |               |                  |     |                    | PID              | Borehole   |
| 2            |                                    |                  | CL                                            |                      |               |                  |     |                    | 0.0<br>ppm       | 0.0<br>ppm |
| 3            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 4            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 5            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 6            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 7            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 8            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 9            |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 10           |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 11           |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 12           |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 13           |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 14           |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |
| 15           |                                    |                  |                                               |                      |               |                  |     |                    |                  |            |

TP=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION               | Moisture Content                    |                          |                          |
|-----------|------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
|           |                                                | Dry                                 | Moist                    | Wet                      |
| 1         | 0-3.5' sandy clay, dense, dry, med to dk brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2         | 3.5'-4'-same, med brown                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3         |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 4         | TP = 4' bgs                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 5         |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6         |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 7         |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8         |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 9         |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 10        |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 11        |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 12        |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 13        |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14        |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15        |                                                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                      | Moisture Content      |                       |                       |
|-----------|-------------------------------------------------------|-----------------------|-----------------------|-----------------------|
|           |                                                       | Dry                   | Moist                 | Wet                   |
| 1         | 0-2' concrete slab                                    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | 2'-4' Sandy clay, dense, dry, med brown, <del>2</del> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | Fine grained sand                                     | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | TP = 4' bgs                                           | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-WPR-01-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name m. Werth

Geologist's Signature M. West

Rig Type (s) Geo probe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

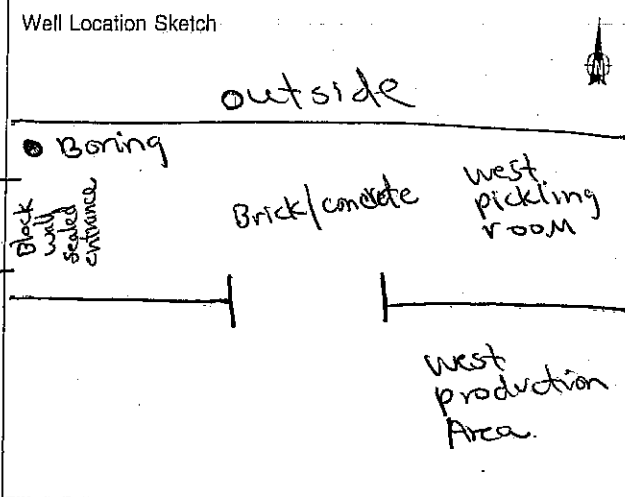
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

[illegible]

NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                              | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-2"- red brick                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 2"-4"- concrete                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 4"-3'- Sandy clay w/gravel, med brown and gray, dry, dense, fine grained sand | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 3'-3.5'- Sand w/gravel, reddish Brown, dense, med grained, dry                | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | 3.5'-4'- Sandy clay, dense, fine grained sand, dry                            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | TP = 4' bgs                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



## DRILLING LOG FOR

ATSS-NP-16-08

Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7/10/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe Track RigDrilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

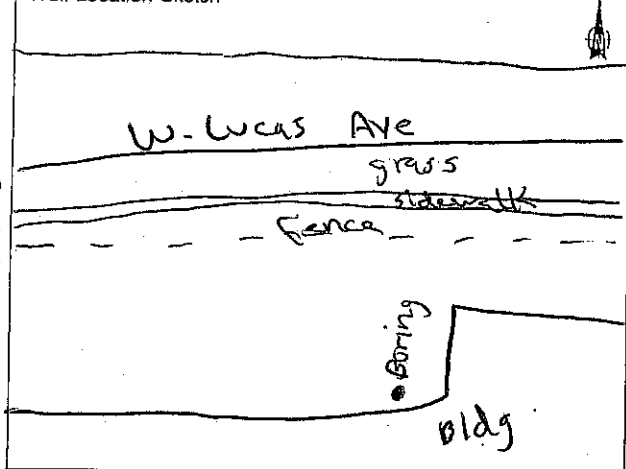
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number      | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|--------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            |                    |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2            |                    |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 4            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                    |                  | S.                                         |                   |            |               |     |                 |               |          |
| 6            | 6'06" sample at 6' |                  | CL                                         |                   |            |               |     |                 | 6.0 ppm       | 6.0 ppm  |
| 7            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                    |                  |                                            |                   |            |               |     |                 |               |          |

TP=



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                  | Moisture Content                    |                          |                          |
|-----------|-------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
|           |                                                                   | Dry                                 | Moist                    | Wet                      |
| 1         | 0-2" silty sand, med brown, loose, med grained, dry               | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2         |                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 3         | 2"-1' Same, trace clay                                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4         | 1'-5' Sand, loose, dry, med brown, med grained, trace gravel      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5         |                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 6         | 5'-6' Sandy clay, gray, dense, dry, fine grained                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7         | Sand                                                              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8         | 6'-7' Sand, loose to sl-dense, dry, med brown                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9         | trace gravel                                                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 10        | 7'-8' Sandy clay, med brown/gray, dense, dry, fine grained, shale | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11        |                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 12        |                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 13        | TD = 8' bgs                                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 14        |                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| 15        |                                                                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |



## DRILLING LOG FOR

ATSS-NP-17-04

Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/16/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe/track rigDrilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

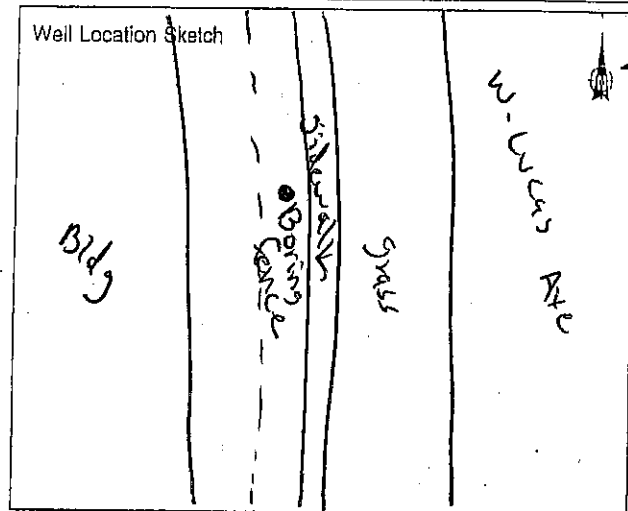
Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number               | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration<br>Times | Run<br>Number | Core<br>Recovery | RQD | Fracture<br>Sketch | HNu/OVA<br>(ppm)<br>PID | Comments<br>Borehole |
|--------------|-----------------------------|------------------|-----------------------------------------------|----------------------|---------------|------------------|-----|--------------------|-------------------------|----------------------|
| 1            | sample<br>at<br>2'<br>0.5/6 |                  | SL                                            |                      |               |                  |     |                    |                         |                      |
| 2            |                             |                  | S                                             |                      |               |                  |     |                    | 0.0<br>PPM              | 0.0<br>PPM           |
| 3            |                             |                  | CL                                            |                      |               |                  |     |                    |                         |                      |
| 4            |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 5            |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 6            |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 7            |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 8            |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 9            |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 10           |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 11           |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 12           |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 13           |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 14           |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |
| 15           |                             |                  |                                               |                      |               |                  |     |                    |                         |                      |

TP=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                              | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                               | Dry                              | Moist                 | Wet                   |
| 1         | 0-2' silty sand, dark brown, trace clay, trace gravel, fine grained sand, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 2'-4' Sandy clay, med brown/gray, dense dry, trace gravel, fine grained sand  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TP = 4' bgs                                                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



# DRILLING LOG FOR ATSS-NP-18-04

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nathnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe/track rig

Drilling Method (s) Macrocore 2.125"

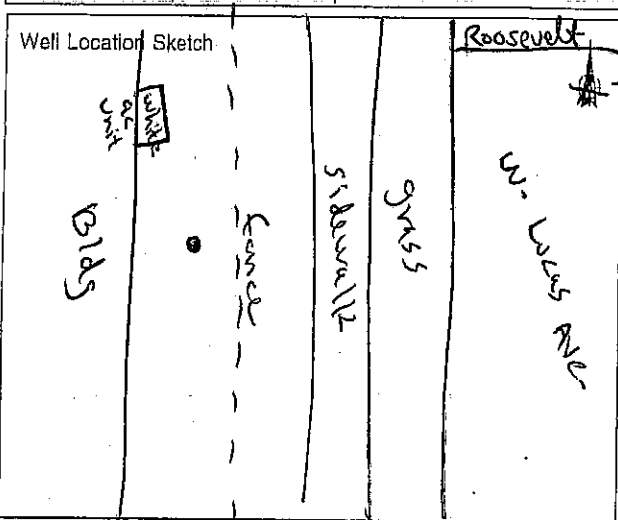
Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

| Water Level (TOIC) |      |              |
|--------------------|------|--------------|
| Date               | Time | Level (Feet) |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |
|                    |      |              |



| Depth (Feet) | Sample Number       | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|---------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | 1.5' sample at 0822 |                  | SL                                            |                   |            |               |     |                 | PID           | Borehole |
| 2            |                     |                  | S                                             |                   |            |               |     |                 | 0.0 PPM       | 0.0 PPM  |
| 3            |                     |                  | CL                                            |                   |            |               |     |                 |               |          |
| 4            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 5            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 6            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 7            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 8            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 9            |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 10           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 11           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 12           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 13           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 14           |                     |                  |                                               |                   |            |               |     |                 |               |          |
| 15           |                     |                  |                                               |                   |            |               |     |                 |               |          |

TP =

NA

NA

**SCREENED WELL**

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                           | Moisture Content |       |     |
|-----------|----------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                            | Dry              | Moist | Wet |
| 1         | 0-1' - Silty sand, dark brown, trace gravel, loose, dry, med. grained sand | ⊗                | ○     | ○   |
| 2         |                                                                            | ○                | ○     | ○   |
| 3         | 1'-1.5' - Silty sand, black, med grained, loose, dry                       | ⊗                | ○     | ○   |
| 4         | 1.5'-2' - Sandy clay, black, dense, dry, fine grained                      | ⊗                | ○     | ○   |
| 5         | 2'-4' - Same, med brown/gray                                               | ⊗                | ○     | ○   |
| 6         |                                                                            | ○                | ○     | ○   |
| 7         |                                                                            | ○                | ○     | ○   |
| 8         | TD = 4' bgs                                                                | ○                | ○     | ○   |
| 9         |                                                                            | ○                | ○     | ○   |
| 10        |                                                                            | ○                | ○     | ○   |
| 11        |                                                                            | ○                | ○     | ○   |
| 12        |                                                                            | ○                | ○     | ○   |
| 13        |                                                                            | ○                | ○     | ○   |
| 14        |                                                                            | ○                | ○     | ○   |
| 15        |                                                                            | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-NP-19-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/16/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Ward

Rig Type (s) Geoprobe / track rig

Drilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

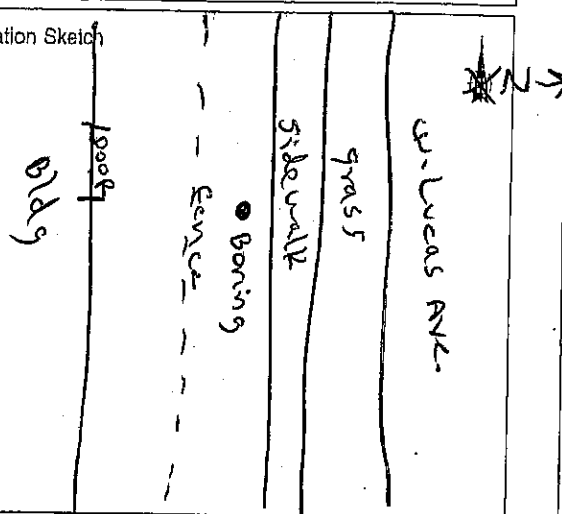
Auger/Split Spoon Refusal: \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

[illegible]

NA

NA

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                                        | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                                         | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5- silty sand, dark brown/black, dry, sl. dense to sl. loose, med grained, trace gravel, trace clay | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.5-1.8- Sandy clay, dark brown/black, dry, fine grained sand,                                          | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 1.8-4- same, tan / med brown                                                                            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TP = 4' bgs                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-NP-20-04

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/16/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature My Ward

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

Bldg  
(receiving area)

Fence

Grass

W-2009

das konkrete

⑥ Brine

drive way

door

[illegible]



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                        | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                         | Dry                              | Moist                 | Wet                   |
| 1         | 0-5" - Gravel/Silty sand, trace clay, dark brown, dry, fine grained, dense to sl. loose | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 5"-4' - Sandy clay, dense, dry, fine grained, med brown/grayish tan                     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | TD = 4' bgs                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                            | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                             | Dry                              | Moist                 | Wet                   |
| 1         | 0-2' - Silty sand, dark brown, dry, sl. loose, trace gravel, med grained    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 2'-3' - sandy clay, dense, dry, fine grained sand, red brown/black          | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 3-4 black ash                                                               | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | 4-5 Silty sand/Black ash, loose, med grained, trace gravel, dry, trace clay | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 5-8 - Sandy clay, gray, dense, dry, fine grained sand                       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        | TD = 8'                                                                     | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

[illegible]

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

**Quantity of Material Used:**

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

**Pack Type/Size:**

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                          | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                           | Dry                              | Moist                 | Wet                   |
| 1         | 0-4" concrete                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 4"-6" silty sand, Black, lg grained/gravel, sh dense, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 6"-2' Sandy clay, dark brown, dense, dry, fine gravel.    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 2'-4' same, med brown                                     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TD = 4' bgs                                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-EPA-02-08Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7/10/07Drilling Company NothagleDriller's Name J. SchweitzerGeologist's Name m. werthGeologist's Signature M. WerthRig Type (s) Geoprobe/track rigDrilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

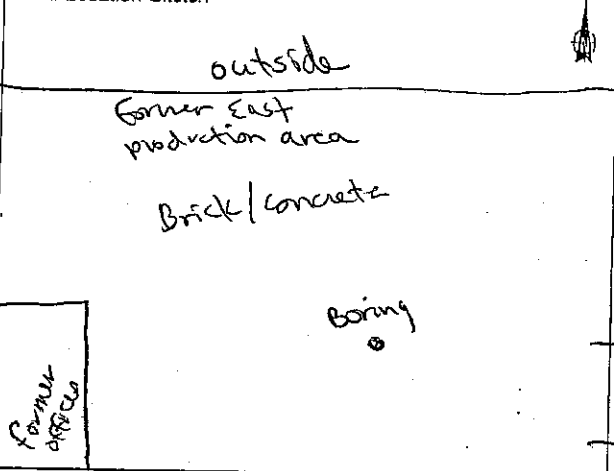
Total Depth of Borehole is 8'

Total Depth of Corehole is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|---------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            |               |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2            |               |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |               |                  | CL                                         |                   |            |               |     |                 | 0.0 ppm       |          |
| 4            |               |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |               |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       |          |
| 6            |               |                  | CL                                         |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 7            |               |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |               |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |               |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |               |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |               |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |               |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |               |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |               |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |               |                  |                                            |                   |            |               |     |                 |               |          |

TD =

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite \_\_\_\_\_

Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches

Diameter \_\_\_\_\_

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION           | Moisture Content                 |                       |                       |
|-----------|--------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                            | Dry                              | Moist                 | Wet                   |
| 1         | 0-2" red brick                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 2"-4" concrete                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 4"-6" silty sand, trace clay, gravel, dry, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | med brown, sl. dense, med. grained sand    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 6"-8" sandy clay, dense, dry, dark brown/  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | black, fine grained                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | TD = 8'                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |





NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft | NARRATIVE LITHOLOGIC DESCRIPTION               | Moisture Content                 |                       |                       |
|----------|------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|          |                                                | Dry                              | Moist                 | Wet                   |
| 1        | 0 - 2" - red brick                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2        | 2" - 4" - concrete                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3        | 4" - 6' - silty sand, gravel, med brown, dry,  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4        | Med grained, sh dense                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5        | <del>6' - 1' shale</del> (6.1 to 7.5)          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6        | 6.1' - 8' - Sandy clay, med brown, dense, dry, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7        | fine-grained sand (black 7.5 to 8)             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8        |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9        | TP = 8' bgs                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10       |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11       |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12       |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13       |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14       |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15       |                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |



NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                                        | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                                         | Dry                              | Moist                 | Wet                   |
| 1         | 0-2" Red Brick                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 2"-4" concrete                                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 4"-4' Silty sand, gravel, med to lg grained, 5% dense, dry, dark brown                                  | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | 4'-8' Sandy clay, dense, dry, fine grained, (lt gray 4-4.2), (lt. tan 4.2-4.4), (dark gray/black 4.4-8) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | TD = 8' bgs                                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-EPR-02-3.0Project Name AlTechSite Location Dunkirk, NYDate Started/Finished 7/10/07Drilling Company NothnagleDriller's Name J. SchweitzerGeologist's Name m. werthGeologist's Signature M. WerthRig Type (s) Geoprobe / track rigDrilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 3'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch

east production area

east  
pickling  
room  
Brick/concrete

● Boring

outside

| Depth (Feet) | Sample Number      | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|--------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | 1.5 sample at 1012 |                  | SL                                         |                   |            |               |     |                 | PID           | Borehole |
| 2            |                    |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 4            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 6            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 7            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                    |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                    |                  |                                            |                   |            |               |     |                 |               |          |

TD=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                   | Moisture Content                 |                       |                       |
|-----------|--------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                    | Dry                              | Moist                 | Wet                   |
| 1         | 0-1.5 silty sand, gravel, dense, dry, dark brown, med grained sand | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 1.5-1.8 silty sand, (same) med brown.                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.8-3 - concrete                                                   | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | 3' refusal in concrete slab                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR A155-EPR-01-3.5

Project Name AI Tech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature My Went

Rig Type (s) Geoprobe (track rig)

Drilling Method (s) macro core 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole Is 3.5'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

east production area

East  
pickling  
room

④ Boring

concrete/brick

outside

[illegible]

NA

SCREENED WELL

NA

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_ ft

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                                     | Moisture Content                 |                       |                       |
|-----------|--------------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                                      | Dry                              | Moist                 | Wet                   |
| 1         | 0-2" concrete / red brick                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 2"- 3' Silty sand, dark brown, <sup>trace</sup> gravel, sl. dense to <del>hard</del> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 3- 3.5' <sup>dry</sup> concrete                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | refusal at 3.5' due to concrete.                                                     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | TP = 3.5' bgs                                                                        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                                      | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |





NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole \_\_\_\_\_ inches Diameter

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                            | Moisture Content                 |                       |                       |
|-----------|-----------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                                             | Dry                              | Moist                 | Wet                   |
| 1         | 0-1' Silty sand, dk brown, dry, sl. loose, trace gravel, med grained        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2         | 1'-1.6 - Sandy clay, dk brown, dry, dense, <del>med</del> fine grained sand | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | 1.6 - 1.8 - Same, black                                                     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.8 - 3.8 - Black wh                                                        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5         | 3.8 - 4 - Sandy clay, dk brown/black, dense, dry, fine grained sand         | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | TD = 4' bgs                                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-EPA-04-10Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/16/07Drilling Company NothnagleDriller's Name J. SchwartzGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe / track rigDrilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

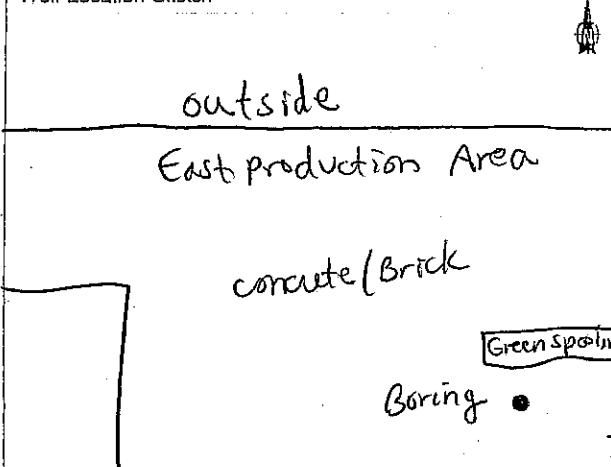
Total Depth of Borehole Is 10'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number     | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch  | HNU/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|-------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|------------------|----------------------|----------------------|
| 1            | Sample at 9' 1056 |                  | SL                                         |                   |            |               |     |                  | 0.0                  | 0.0                  |
| 2            |                   |                  | S                                          |                   |            |               |     |                  | PPM                  | PPM                  |
| 3            |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 4            |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 5            |                   |                  | SL                                         |                   |            |               |     |                  | 0.0                  | 0.0                  |
| 6            |                   |                  | S                                          |                   |            |               |     |                  | PPM                  | PPM                  |
| 7            |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 8            |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 9            |                   |                  | S                                          |                   |            |               |     | 8' 9" = 1.3 PPM  | 0.0                  | 0.0                  |
| 10           |                   |                  | CL                                         |                   |            |               |     | 9' 10" = 0.0 PPM |                      | PPM                  |
| 11           |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 12           |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 13           |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 14           |                   |                  |                                            |                   |            |               |     |                  |                      |                      |
| 15           |                   |                  |                                            |                   |            |               |     |                  |                      |                      |

TP=

NA

NA

**SCREENED WELL**

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

**OPEN-HOLE WELL**

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                | Moisture Content                 |                       |                       |
|-----------|-------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                 | Dry                              | Moist                 | Wet                   |
| 1         | 0-2'-red brick                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 2'-4'-concrete                                  | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 3         | 4'-7'-Silty sand, trace clay, 0 to 1/4" gravel, | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4         | dense, dry, Med to dk brown, fine               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | to Med grained sand                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 6         | 7'-8'-same, silty sand w/clay, more             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7         | gravel (1/2"), dk brown                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 8'-9'-same (1.3 ppm)                            | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9         | 9'-10'-sandy clay, black /dk brown /gray,       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10        | dense, dry, fine grained sand                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11        |                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | TD = 10' bgs                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        |                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14        |                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        |                                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-EPA-05-11Project Name Al TechSite Location Dunkirk, NYDate Started/Finished 7/10/07Drilling Company NothnagleDriller's Name J. SchwertzerGeologist's Name m. WerthGeologist's Signature My WardRig Type (s) Geoprobe / track rigDrilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

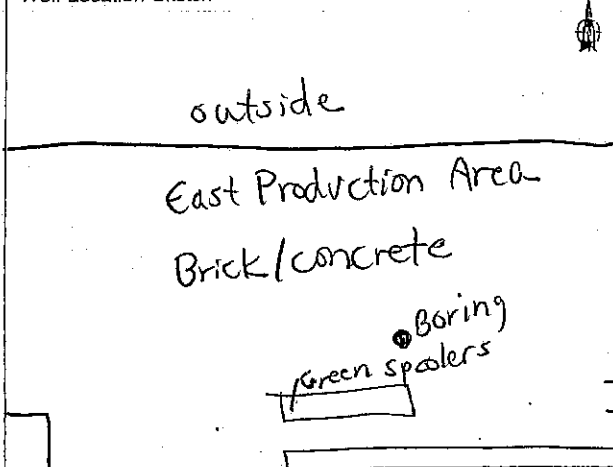
Total Depth of Borehole Is 11'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIG)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number             | Blows on Sampler | Soil Components<br>Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNu/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|---------------------------|------------------|-----------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            |                           |                  | S<br>CL                                       |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 2            |                           |                  |                                               |                   |            |               |     |                 | PPM                  | PPM                  |
| 3            |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 4            |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 5            |                           |                  | SL<br>S                                       |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 6            |                           |                  |                                               |                   |            |               |     |                 | PPM                  | PPM                  |
| 7            |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 8            |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 9            | Sample<br>9<br>at<br>1109 |                  | S<br>CL                                       |                   |            |               |     |                 | 0.0                  | 0.0                  |
| 10           |                           |                  |                                               |                   |            |               |     |                 | PPM                  | PPM                  |
| 11           |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 12           |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 13           |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 14           |                           |                  |                                               |                   |            |               |     |                 |                      |                      |
| 15           |                           |                  |                                               |                   |            |               |     |                 |                      |                      |

TP=

NA

NA

SCREENED WELL

OPEN-HOLE WELL

Lock Number \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                             | Moisture Content |       |     |
|-----------|------------------------------------------------------------------------------|------------------|-------|-----|
|           |                                                                              | Dry              | Moist | Wet |
| 1         | 0-2" - Brick, lt-tan (oven brick?)                                           | ○                | ○     | ○   |
| 2         | 2"-1' - Sandy clay, dk brown, dense, dry                                     | ⊗                | ○     | ○   |
| 3         | Fine grained sand, trace gravel                                              | ○                | ○     | ○   |
| 4         | 1' - 1.5' - Sand, reddish brown, med grained, dry, sl. dense (fill)          | ⊗                | ○     | ○   |
| 5         | 1.5' - 4' - Silty sand, dark brown, gravel, sl. dense, dry, trace clay       | ⊗                | ○     | ○   |
| 6         | 4' - 9' - Sand, black, gravel, loose, med. grained trace clay, dry           | ⊗                | ○     | ○   |
| 7         | 9' - 11' - Sandy clay, grayish green and med brown, fine grained, dry, dense | ⊗                | ○     | ○   |
| 8         |                                                                              | ○                | ○     | ○   |
| 9         |                                                                              | ○                | ○     | ○   |
| 10        |                                                                              | ○                | ○     | ○   |
| 11        |                                                                              | ○                | ○     | ○   |
| 12        |                                                                              | ○                | ○     | ○   |
| 13        | TD = 11' bgs                                                                 | ○                | ○     | ○   |
| 14        |                                                                              | ○                | ○     | ○   |
| 15        |                                                                              | ○                | ○     | ○   |

DRILLING LOG FOR ATSS-EPA-06-7.5Project Name ALTechSite Location Dunkirk, NYDate Started/Finished 7/10/07Drilling Company NothnagleDriller's Name J. SchwertzerGeologist's Name M. WerthGeologist's Signature M. WerthRig Type (s) Geoprobe / track rigDrilling Method (s) macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

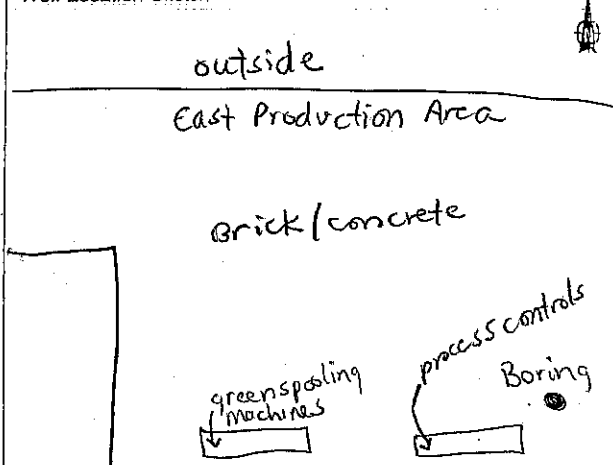
Total Depth of Borehole is 8'

Total Depth of Corehole is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm)<br>PID | Comments<br>Borehole |
|--------------|---------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|----------------------|----------------------|
| 1            |               |                  | SL                                         |                   |            |               |     |                 | 0.0                  | 0.0 ppm              |
| 2            |               |                  | S                                          |                   |            |               |     |                 | ppm                  |                      |
| 3            |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 4            |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 5            |               |                  | SL                                         |                   |            |               |     |                 | 0.0                  | 0.0 ppm              |
| 6            |               |                  | S                                          |                   |            |               |     |                 | ppm                  |                      |
| 7            |               |                  | CL                                         |                   |            |               |     |                 |                      |                      |
| 8            |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 9            |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 10           |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 11           |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 12           |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 13           |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 14           |               |                  |                                            |                   |            |               |     |                 |                      |                      |
| 15           |               |                  |                                            |                   |            |               |     |                 |                      |                      |

TD =

7.5' sample at 1124

NA

NA

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                                         | Moisture Content                 |                       |                                  |
|-----------|--------------------------------------------------------------------------|----------------------------------|-----------------------|----------------------------------|
|           |                                                                          | Dry                              | Moist                 | Wet                              |
| 1         | 0-4" concrete                                                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 2         | 4"-4' - silty sand w/gravel, dk brown, dry, sl. dense, trace clay 0-1/2" | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| 3         |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 4         | 4' - 6.5' - same                                                         | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 5         | 6.5' - 7.5' - same, stained black, oily sheen, wet                       | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| 6         |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 7         | 7.5' - 8' - sandy clay, black, dense, Fine grained sand, dry             | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| 8         |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 9         |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 10        | TD = 8' bgs                                                              | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 11        |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 12        |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 13        |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 14        |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |
| 15        |                                                                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/>            |



# DRILLING LOG FOR ATSS-NP-21-08

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name M. Werth

Geologist's Signature M. Werth

Rig Type (s) Geoprobe / track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

Auger/Split Spoon Refusal \_\_\_\_\_

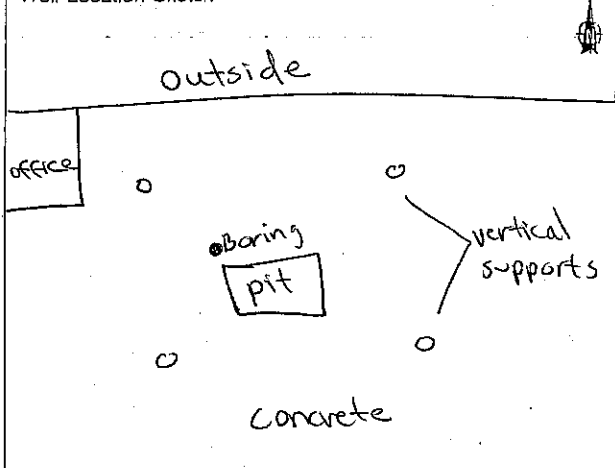
Total Depth of Borehole Is 8'

Total Depth of Corehole Is \_\_\_\_\_

## Water Level (TOIC)

| Date | Time | Level (Feet) |
|------|------|--------------|
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |
|      |      |              |

## Well Location Sketch



| Depth (Feet) | Sample Number           | Blows on Sampler | Soil Components Rock Profile<br>CL SL S GR | Penetration Times | Run Number | Core Recovery | RQD | Fracture Sketch | HNU/OVA (ppm) | Comments |
|--------------|-------------------------|------------------|--------------------------------------------|-------------------|------------|---------------|-----|-----------------|---------------|----------|
| 1            | sample<br>2' at<br>1307 |                  | SL                                         |                   |            |               |     |                 |               |          |
| 2            |                         |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 3            |                         |                  | CL                                         |                   |            |               |     |                 |               |          |
| 4            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 5            |                         |                  | S                                          |                   |            |               |     |                 | 0.0 ppm       | 0.0 ppm  |
| 6            |                         |                  | CL                                         |                   |            |               |     |                 |               |          |
| 7            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 8            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 9            |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 10           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 11           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 12           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 13           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 14           |                         |                  |                                            |                   |            |               |     |                 |               |          |
| 15           |                         |                  |                                            |                   |            |               |     |                 |               |          |

TD



NA

NA

Lock Number \_\_\_\_\_

SCREENED WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft. | NARRATIVE LITHOLOGIC DESCRIPTION                  | Moisture Content                 |                       |                       |
|-----------|---------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|           |                                                   | Dry                              | Moist                 | Wet                   |
| 1         | 0-4" - concrete                                   | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2         | 4"-1.5' - silty sand, med brown, med grained, dry | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3         | grave (0-1/4"), dense                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4         | 1.5'-2' - same, black                             | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5         | 2'-2.5' - Sandy clay, black, gravel, dense,       | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6         | dry, fine grained                                 | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7         | 2.5'-3.0' - Same, gray                            | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8         | 3.0'-3.5' - Red brick layer                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9         | 3.5'-4.0' - Oven brick, lt tan + Black ash        | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10        | 4.0'-7' - Sand w/ gravel, gray, sl. dense,        | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11        | dry, med to lg grained.                           | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12        | 7'-7.5' - Black ash                               | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13        | 7.5'-8' - Sandy clay, gray, trace gravel,         | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 14        | dense, dry, fine grained                          | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15        | TD = 8' bgs                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |

DRILLING LOG FOR ATSS-WPA-0104

Project Name AlTech

Site Location Dunkirk, NY

Date Started/Finished 7/10/07

Drilling Company Nothnagle

Driller's Name J. Schweitzer

Geologist's Name Mr. Werth

Geologist's Signature M. W. Weil

Rig Type (s) Geoprobe / Track rig

Drilling Method (s) Macrocore 2.125"

Bit Size (s) \_\_\_\_\_ Auger Size (s) \_\_\_\_\_

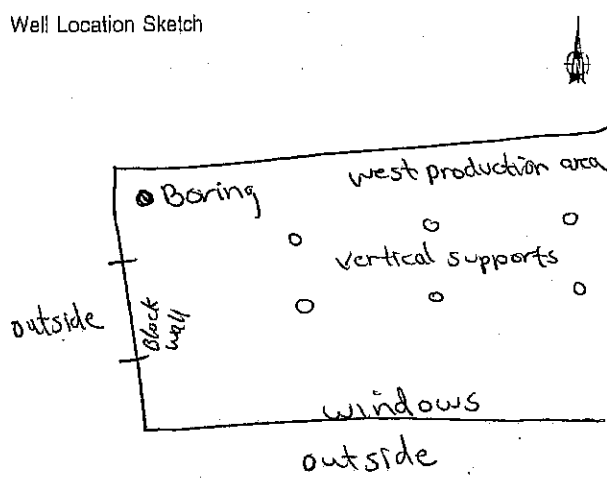
Auger/Split Spoon Refusal \_\_\_\_\_

Total Depth of Borehole is 4'

Total Depth of Corehole Is \_\_\_\_\_

[illegible]

Well Location Sketch

[illegible]

NA

NA

SCREENED WELL

Lock Number \_\_\_\_\_

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Stick-up \_\_\_\_\_ ft

Top of Grout \_\_\_\_\_ ft

Top of Seal at \_\_\_\_\_ ft

Top of Sand Pack \_\_\_\_\_ ft

Top of Screen at \_\_\_\_\_ ft

Bottom of Screen at \_\_\_\_\_ ft

Bottom of Hole at \_\_\_\_\_ ft

Bottom of Sandpack at \_\_\_\_\_

GROUND SURFACE

OPEN-HOLE WELL

Stick-up \_\_\_\_\_ ft

Inner Casing Material \_\_\_\_\_

Inner Casing Inside Diameter \_\_\_\_\_ inches

Outer Casing Diameter \_\_\_\_\_ inches

Borehole Diameter \_\_\_\_\_ ft

Bedrock \_\_\_\_\_ ft

Bottom of Rock Socket/Outer Casing \_\_\_\_\_ ft

Bottom of Inner Casing \_\_\_\_\_ ft

Corehole Diameter \_\_\_\_\_

Bottom of Corehole \_\_\_\_\_ ft

Quantity of Material Used:

Bentonite Pellets \_\_\_\_\_

Cement \_\_\_\_\_

Borehole Diameter \_\_\_\_\_ inches

Cement/Bentonite \_\_\_\_\_

Grout \_\_\_\_\_

Screen Slot Size \_\_\_\_\_

Screen Type \_\_\_\_\_

☐ PVC \_\_\_\_\_

☐ Stainless Steel \_\_\_\_\_

Pack Type/Size:

☐ Sand \_\_\_\_\_

☐ Gravel \_\_\_\_\_

☐ Natural \_\_\_\_\_

NOTE: See pages 136 and 137 for well construction diagrams

| Depth-ft | NARRATIVE LITHOLOGIC DESCRIPTION                                               | Moisture Content                 |                       |                       |
|----------|--------------------------------------------------------------------------------|----------------------------------|-----------------------|-----------------------|
|          |                                                                                | Dry                              | Moist                 | Wet                   |
| 1        | 0-4" - concrete                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 2        | 4"-6" - Silty sand, med brown, sl. dense, gravel, trace clay, dry, med grained | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3        |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 4        | 6" - 2' - concrete layer                                                       | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 5        | 2' - 4' - Sandy clay, med brown, fine grained, dry, dense                      | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6        |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 7        |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 8        | TP = 4' bgs                                                                    | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 9        |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 10       |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 11       |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 12       |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 13       |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 14       |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |
| 15       |                                                                                | <input type="radio"/>            | <input type="radio"/> | <input type="radio"/> |