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CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**REVISED *LIMITED* SUBSURFACE INVESTIGATION REPORT**

**Former C & F Plating**

406 North Pearl Street

City of Albany, Albany County, New York

NYSDEC Spill No.: 02-09561

Report Completed:

May 2008

Prepared for:

New York State Department of Environmental Conservation

Region 4

Division of Environmental Remediation

1130 North Westcott Road

Schenectady, NY 12306-2014

Prepared By:

**PRECISION ENVIRONMENTAL SERVICES, INC.**

831 Route 67, Lot 28

Ballston Spa, New York 12020

## **1.0 Introduction:**

Precision Environmental Services, Inc. (PES) has prepared this site investigation report to document the findings of the limited investigative work performed at the former C & F Plating site (see Attachment A, Figure 1 for site location detail). The work described within this report was initiated pursuant to a November 3, 2005 directive from the New York State Department of Environmental Conservation (NYSDEC). Work tasks completed and documented within this report include ①-installation of six (6) soil borings; ②-installation of five (5) groundwater monitoring wells; ③-performance of a site survey and base map development for newly installed monitoring wells and relevant surface features; ④-development and sampling of newly installed and existing monitoring wells; ⑤-Collection of eleven (11) surface soil samples and ⑥-sampling of sediments in the adjacent Patroon Creek.

### 1.1 Background:

*Please Note: The following discussion is limited to PES's findings as they relate solely to the limits of the authorized scope of work. Specifically, information presented will address only those areas of the site where PES performed subsurface investigative work (i.e. – installed monitoring well locations) see Figure 2 for site plan details.*

According to limited information provided to PES, the site was historically utilized as a chrome plating facility from the 1920's to 1985. Since 1985 the facility has been used for storage of miscellaneous equipment. In January 2004 the U.S. Environmental Protection Agency (EPA) removed numerous containers of liquid and solid wastes from the site. On October 27, 2005 PES and the NYSDEC visited the site to assess current conditions. The majority of the site is still being utilized for the storage of miscellaneous equipment, commercial and household trash and debris.

### 1.2 Site Description:

The subject site is located at 406 North Pearl Street, in the City of Albany, Albany County, New York (see Attachment A, Figure 1 for site location detail). A single structure, which currently exists on site, consists of a vacant two-story warehouse. The property is situated in a commercial area. In general, the land surfaces at the site are covered with asphalt, gravel, and concrete. The site and the surrounding area have an apparent topographic slope to the east-southeast towards the Hudson River. The nearest surface water body, the Patroon Creek, is located to the north/northeast, immediately adjacent to the property/building. While operational the site was serviced by municipal water and sewer systems.

## **2.0 Subsurface Investigation:**

As directed by the NYSDEC, PES performed a subsurface investigation by installing soil borings at six (6) on-site locations. Soil boring locations were biased towards suspected areas of concern (i.e. interior trenching and drains, exterior depressions and perceived drainage patterns). Ultimately, site access was limited due to stockpiled equipment and commercial and household waste (see Attachment B, Figure 2 for detail). Five (5) of the soil borings were converted into one-inch diameter groundwater-monitoring wells (MWs). The purpose of the MWs is to provide groundwater elevation data and facilitate groundwater sample collection, both of which aid in determining contaminant occurrence, concentration and migration.

2.1 Soil Boring Installation:

On October 3 and 4, 2006 six (6) 2-1/4-inch diameter soil borings (SBs) were installed by PES at the subject site. The SBs have been designated as SB-1 through SB-6 (See Attachment A, Figure 2, for relative SB locations). Soil borings were installed utilizing PES's skid steer mounted, direct push, soil probe. Borings were advanced to varying depths throughout the site. Continuous, discreet, macro-core sampling was conducted at four (4)-foot intervals during boring advancement. Upon collection, each sample was examined for lithologic classification, and screened with a Photo Ionization Detector (PID) to qualitatively determine the presence and amount of volatile organic compounds (VOCs). Details regarding lithologic classification and PID readings were recorded on the respective boring logs and have been included as Attachment C. Screening involved sealing representative portions of the acquired sample in clean plastic bags, allowing for equilibration and scanning the headspace with the PID. Table 1 provides a summary of the PID responses for individual soil borings.

Soil samples were collected from varying depths in select borings based on PID response, location relative to the perceived water table and visible or olfactory characteristics. Soil samples were secured in laboratory-supplied glassware, placed on ice and submitted via chain-of-custody protocol to Adirondack Environmental Services, Inc., of Albany, NY. The collected samples were analyzed for VOCs via EPA analytical method 8260, PCBs via EPA method 8082 and TAL Metals. A summary of the analytical results has been included in Attachment A, Tables 4, 5 & 6 (see Attachment B, Figures 5, 6 and 7 for additional detail).

**TABLE 1: Soil Screening Results**

| <b>Boring/<br/>Well ID</b> | <b>Sample<br/>Interval (feet)</b> | <b>Maximum Observed<br/>PID Value (PPM) *<sup>1</sup></b> | <b>Sample Submitted for<br/>Laboratory Analysis</b> | <b>Notes</b>  |
|----------------------------|-----------------------------------|---|---|---|
| <b>SB-1</b>                | 10-12'                            | ND  | Yes   | Sample selected based on location relative to water table |
| <b>SB-2</b>                | 10-12'                            | <b>14</b>   | Yes   | Slight petroleum odor                                     |
| <b>SB-3</b>                | 3-6'                              | ND  | Yes   | Discoloration/Staining evident                            |
| <b>SB-3</b>                | 7-9'                              | ND  | Yes   | Sample selected based on location relative to water table |
| <b>SB-4</b>                | 0-8'                              | ND  | No  | N/A   |
| <b>SB-5</b>                | 8-10'                             | ND  | Yes   | Sample selected based on location relative to water table |
| <b>SB-6</b>                | 8-10'                             | <b>153</b>  | Yes   | Staining and petroleum odor evident                       |

NOTE \*1: All results obtained by H-NU model DL-102 PID

ND = Not Detected

N/A = Not Available/Not Applicable

2.2 Monitoring Well Installation:

On October 3 and 4, 2006, five of the soil borings were converted into 1-inch diameter groundwater monitoring wells. The monitoring wells have been designated as MW-1 through MW-5 (See Attachment A, Figure 2, for relative MW locations). Each MW was constructed using one-inch schedule 40 PVC well screen and casing with flush threaded joints (see Table 2 below for a well construction summary). Each MW was constructed such that the screened interval extended across the observed water table (refer to Attachment C for well completion details). The annular space around the well screen was filled with #0 silica sand to approximately one (1)-foot above the well screen. A bentonite seal was then placed above the sand to prevent the infiltration of surface water. Each MW was completed as a stick-up such that a section of solid well riser extends above finished grade.

**TABLE 2: Well Construction Summary\*<sup>2</sup>**

| <b>Boring/Well ID</b> | <b>Total Depth (feet)</b> | <b>Screen Interval (feet)</b> | <b>Depth at which Groundwater was Encountered (feet)</b> |
|-----------------------|---------------------------|-------------------------------|--|
| <b>SB-1/MW-1</b>      | 15                        | 5-15                          | 8  |
| <b>SB-2/MW-2</b>      | 15                        | 5-15                          | 8  |
| <b>SB-3/MW-3</b>      | 16                        | 5-16                          | 8  |
| <b>SB-5/MW-4</b>      | 10                        | 5-10                          | 9  |
| <b>SB-6/MW-5</b>      | 16                        | 5-16                          | 7.5  |

\*<sup>2</sup>: See Attachment C (Drilling Logs) for complete well construction details

2.3 Monitoring and Surveying:

On October 27, 2006 top of well casing elevations at newly installed wells were surveyed to determine groundwater elevation and/or groundwater gradient in the subsurface. All elevation data acquired is relative to an assumed elevation of a temporary benchmark. Depth to water (*gauging*) was also determined for each data point on October 27, 2006 using a water level indicator (WLI). The WLI utilized is capable of distinguishing the air/water interface to an accuracy of 0.01 feet. The Groundwater Elevation Data Table included as Attachment A, Table 3 summarizes the top of casing elevations, the depth to groundwater and the corresponding groundwater elevations for all site wells at the time of the gauging event.

2.4 Monitoring Well Sampling:

On October 27, 2006 groundwater samples were collected from the MWs using dedicated disposable polyethylene bailers. Prior to sampling, each well was developed by repetitive bailing. Samples were then secured in laboratory-supplied glassware, placed on ice and submitted via chain-of-custody protocol to Adirondack Environmental Services, Inc., of Albany, NY to be analyzed for VOCs via EPA analytical method 8260, SVOCs via method 8270, PCBs via method 8082 and TAL Metals. A summary of the analytical results has been included as Attachment A, Tables 7, 8, 9, 10 and 10A.

Following a review of the analytical results from the October 27, 2006 sampling event a second round of groundwater monitoring/sampling was conducted to obtain additional analytical data with respect to the levels of metals dissolved in the groundwater. The second round of sampling, which was conducted on May 17, 2007, included additional monitoring of groundwater parameters, such as turbidity, temperature, pH and conductivity. The goal of the additional round of sampling was to obtain relatively turbid free samples in an effort to determine if the metals contamination observed during the October 2006 sampling round was due to suspended solids or dissolved constituents.

Prior to sample collection each well was developed with a peristaltic pump. A minimum of three well volumes was purged from each well during development. Purge water was monitored for turbidity during well development. Pursuant to NYSDEC technical and administrative guidance memorandum (TAGM) 4015 groundwater samples were collected following confirmation that the turbidity level was less than 50 NTU's. Where field verification of turbidity levels could not be determined (MW-2 and MW-4), turbidity was determined through laboratory analysis. Samples were secured in laboratory-supplied glassware, placed on ice and submitted via chain-of-custody protocol to Adirondack Environmental Services, Inc., of Albany, NY to be analyzed for TAL Metals to include a category B data deliverable package. A summary of the analytical results from the May 2007 sampling event has been included as Attachment A, Table 10A.

### **3.0 Surface Soil Sampling:**

To supplement the subsurface investigation eleven (11) surface soil samples were obtained in accessible areas at the site on October 3 and 4, 2006. Surface soil samples were collected from 0 to 2 inches below relative ground surface beneath existing vegetative cover and/or concrete/asphalt. Sample locations were biased towards the suspected area of greatest contamination based on professional judgment utilized in the field and as identified by others. A sample was collected at each soil boring location as well as select locations in waste storage areas and interior floor drains.

Surface soil samples were secured in laboratory-supplied glassware, placed on ice and submitted via chain-of-custody protocol to Adirondack Environmental Services, Inc., of Albany, NY. The collected samples were analyzed for VOCs via EPA analytical method 8260, PCBs via EPA method 8082 and TAL Metals. A summary of the analytical results has been included in Attachment A, Tables 4, 5 & 6 (see Attachment B, Figures 5 and 7 for additional detail).

### **4.0 Patroon Creek Sediment Sampling:**

Based on the close proximity to the Patroon Creek to areas of former plating operations, it was prudent to investigate potential impacts to the Patroon Creek. As such, PES collected sediment samples from the immediately adjacent Patroon Creek. Sediment soils were collected in a stainless steel split-spoon sampler from one to six inches beneath the creek bottom. Due to a lack of accessible sample locations and appreciable sample media only five samples, including one background, were collected. Two sediment samples were collected immediately adjacent to the C&F Plating facility (C&F East and C&F West), two samples were collected at the nearest down stream access point where the Patroon Creek enters the Hudson River (Patroon Mouth North and South samples) and one background sample was obtained in an upstream location (Background sample). Figure 8, included in Attachment A, depicts sediment sample locations.

Sediment soil sample locations were based primarily on perceived accessibility and availability of sediments. Sediment soil samples were secured in laboratory-supplied glassware, placed on ice and submitted via chain-of-custody protocol to Adirondack Environmental Services, Inc., of Albany, NY. The collected samples were analyzed for VOCs via EPA analytical method 8260, SVOCs via EPA analytical method 8270, PCBs via EPA method 8082 and TAL Metals. A summary of the analytical results has been included in Attachment A, Tables 11, 12, 13 & 14 (see Attachment B, Figure 8 for additional detail).

## **5.0 Geologic/Hydrogeologic Findings:**

### 5.1 Regional Geology:

The subject property is located within the Hudson Mohawk Lowland Physiographic Province. The overburden soils in the surrounding area have been characterized as Lacustrine Sand, which are composed of well sorted, stratified sand deposits, or Lacustrine Silt and Clay, which are composed of generally laminated silt and clay (Cadwell et al, 1987). The bedrock geology identified in the vicinity of the property is the Normanskill Shale, which is of Middle Ordovician origin (Fisher et al, 1970).

### 5.2 Site Geology:

Subsurface soils were investigated at the site by utilizing the soil borings as previously discussed. The depth of overburden exploration reached 16-feet below grade. Soils encountered at the site were generally composed of silty sand, silt and silty clay (see Attachment C for soil boring details).

### 5.3 Surface Water:

The nearest surface water body, the Patroon Creek, is located immediately adjacent to the north/northeast of the subject property (see Attachment A, Figure 1). The Patroon Creek physically contacts the eastern boundary of the building that occupies the majority of the site (see Figure 8 for detail).

### 5.4 Site Hydrogeology:

Depth to groundwater measurements, obtained on October 27, 2006 were observed under static conditions from each well (see Attachment A, Table 3). See the above Table 2 for a summary of groundwater occurrence during the drilling process. A groundwater gradient map was developed from the gauging data and has been included as Attachment B, figure 3. The data presented in Figure 3 indicates that groundwater contained within the overburden material is migrating east/southeast towards the Patroon Creek.

## 6.0 Conclusion:

As directed and as approved by the NYSDEC, six (6) soil borings and five (5) groundwater-monitoring wells were installed to varying depths at the subject site to investigate the subsurface. Eleven surface and six subsurface soil samples were collected as part of the site investigation. Soil screening and sampling took place during soil boring installation and sample collection procedures.

The laboratory results from the surface and subsurface soil samples collected during the investigation indicate that elevated levels of inorganic contaminants exist at the site above Recommended Soil Cleanup Objectives (RSCO) levels as published in NYSDEC TAGM 4046 Heavy Metals Soil Cleanup Criteria Table. Several of these inorganics are readily attributed to typical chrome plating operations including Cadmium, Chromium and Nickel. Cadmium was detected at concentrations greater than the corresponding RSCO level in ten out of the eleven surface soil samples and five of the six subsurface soil samples collected. Elevated chromium concentrations were detected in seven of the eleven surface soil samples and in two subsurface soil samples. The concentration of Nickel was detected at elevated levels in six of the eleven surface samples and three subsurface samples (see Table 6 and Figures 5 and 6 for detail).

In addition to Cadmium, Chromium and Nickel, Several other inorganics were detected in soil samples at the site exceeding relevant Eastern USA Background levels including: Arsenic, Barium, Beryllium, Cobalt, Copper, Mercury and Zinc.

Newly installed monitoring wells were surveyed, gauged, developed and sampled subsequent to their installation. The analytical results indicate that groundwater at the subject site has been impacted by heavy metals (see Table 10A and Figures 4-4c for detail). A comparison of the October 2006 and May 2007 groundwater analytical results suggest that the significantly higher concentrations of heavy metals observed during the first round are due to suspended solids in the groundwater samples. However, analytical results from the less turbid samples collected during the second round indicate direct impacts to the groundwater from past site operations. Most notable are elevated concentrations of Cadmium, Chromium and Nickel, relative to the NYSDEC groundwater standard as defined in 6 NYCRR Part 703. Volatile and Semi-volatile organic compounds and PCBs were not detected in groundwater. Gauging data also indicates that groundwater encountered is migrating east/southeast.

To assess potential impacts to the Patroon Creek five (5) sediment soil samples were obtained from the creek bottom. The analytical results suggest that the creek sediments have not been adversely impacted by site operations. The creek flows primarily through commercial and industrial properties where numerous releases and environmental impacts to the creek have been documented. The compounds identified in the sediment samples both near the site and down stream, as summarized in Attachment A, Tables 11-14, are commonly found in such settings. The lack of a marked increase in concentrations down stream as compared to those discovered upstream provide further support that the creek has not been impacted by the subject facility.

## 7.0 Discussion/Recommendations:

Based on the findings discussed within this report, PES attributes the elevated levels of heavy metals detected in soil and groundwater at the site to historic chrome plating operations. An insufficient amount of

background samples were obtained to accurately ascertain the local baseline levels for many of the metals of concern. Due to site logistics, sufficient background samples could not be obtained from areas that were suspected to be free of potential historic contamination. Background samples collected/analyzed from off-site locations was not part of the scope of authorized services. However, based on the perceived groundwater flow direction and various site characteristics noted during the field assessment (i.e.: impervious cover and elevation relative to suspected target areas of concern) the location of SB-1/MW-1 could prove to be a viable background sample location. With this concept in mind, the data presented in Figures 4 and 5 suggests that several of the metals of concern exist at the site in an area that is hydraulically upgradient and in a location that was perceived to be non-impacted by facility operations. The occurrence of these constituents of concern at the SP-1/MW-1 location therefore suggests the possibility that these metals are indigenous to the site and may not be related to historic plating operations. With this hypothesis established, it becomes plausible that the elevated concentrations of contaminants detected in surface soil samples collected within the limits of the building as well as groundwater from MW-2, 3, 4, and 5 are the direct result of the historic site usage (plating activities).

PES recommends the following:

- Collection of additional soil samples on adjacent properties to accurately determine area background levels for heavy metals, with particular regards to the metals of concern identified above as well as Antimony, Lead, Silver and Cyanide.
- Begin quarterly monitoring of the site to assess contaminant concentrations over time and potential seasonal fluctuations.
- Installation of additional groundwater monitoring wells at perceived down gradient locations. Possible location for additional wells is the sidewalk along the north side of North Pearl Street adjacent to the front of the existing site building.

## 8.0 Disclaimer:

*Any statement or opinion contained in this Report prepared by Precision Environmental Services, Inc. (PES) shall not be construed to create any warranty or representation that the real or personal property on which the investigation was conducted is free of pollution or complies with any or all applicable regulatory or statutory requirements, or that the property is fit for any particular purpose. Unless otherwise indicated in this Report, PES did not independently determine the compliance of present or past owners of the site with federal, state or local laws and regulations. The conclusions presented in this Report were based upon the services described, within the time and budgetary constraints imposed by the client, and not on scientific tasks or procedures beyond the scope of those described services. PES shall not be responsible for conditions or consequences arising from any facts that were concealed, withheld or not fully disclosed by any person at the time the evaluation was performed.*

*Any person or entity considering the acquisition, use or other involvement or activity concerning the property that is the subject of this Report shall be solely responsible for determining the adequacy of the property for any and all such purposes. The person or entity should enter into any such acquisition or use relying solely on its own judgment and personal investigation of the property, and not upon reliance of any representation by PES regarding the property or the character, quality or value thereof.*

Should you have any questions regarding the above report, please feel free to contact the undersigned at 518-885-4399.

SINCERELY  
**PRECISION ENVIRONMENTAL SERVICES, INC.**



Stephen M. Phelps  
Project Manager

### Enclosures:

- Attachment A: Tables
- Attachment B: Figures
- Attachment C: Boring Logs
- Attachment D: Data Usability Summary Report
- Laboratory Analytical Report submitted under separate cover

**Attachment A**

**TABLES**

Former C & F Plating  
 406 North Pearl Street., Albany, NY  
*Limited* Subsurface Investigation, March 2007

TABLE 3

**Groundwater Elevation Data Table**

| <b>Well ID</b> | <b>Top of Casing Elevation*<sup>1</sup></b> | <b>Depth to LNAPL</b> | <b>Depth to Water *<sup>2</sup></b> | <b>Water Table Elevation</b> | <b>Notes</b>                    |
|----------------|---|-----------------------|-------------------------------------|------------------------------|---------------------------------|
| MW-1           | 102.59                                      | NA                    | 8.63                                | 93.96                        |                                 |
| MW-2           | 101.48                                      | NA                    | 8.85                                | 92.63                        | Light sheen, slight petro. odor |
| MW-3           | 99.34                                       | NA                    | 7.78                                | 91.56                        |                                 |
| MW-4           | 102.80                                      | NA                    | 10.21                               | 92.59                        |                                 |
| MW-5           | 100.50                                      | NA                    | 8.12                                | 92.38                        | Light sheen, slight petro. odor |

Comments: All values are reported in feet.

LNAPL - Light Non Aqueous-Phase Liquid

NA - Not Available/Applicable.

DRY - No water present in well at time of sampling

\*<sup>1</sup> - Survey performed October 27, 2007

\*<sup>2</sup> - Data Obtained on October 27, 2007

Former C & F Plating  
 406 North Pearl Street., Albany, NY  
 Revised *Limited* Subsurface Investigation, May 2008

TABLE 3A

**Groundwater Elevation Data Table**

| <b>Well ID</b> | <b>Top of Casing Elevation<sup>*1</sup></b> | <b>Depth to LNAPL</b> | <b>Depth to Water <sup>*2</sup></b> | <b>Water Table Elevation</b> | <b>Notes</b>                    |
|----------------|---|-----------------------|-------------------------------------|------------------------------|---------------------------------|
| MW-1           | 102.59                                      | NA                    | 8.02                                | 94.57                        |                                 |
| MW-2           | 101.48                                      | NA                    | 8.48                                | 93.00                        | Light sheen, slight petro. odor |
| MW-3           | 99.34                                       | NA                    | 7.54                                | 91.80                        |                                 |
| MW-4           | 102.80                                      | NA                    | 6.25                                | 96.55                        |                                 |
| MW-5           | 100.50                                      | NA                    | 7.77                                | 92.73                        | Slight petro. odor              |

Comments: All values are reported in feet.  
 NA - Not Available/Applicable.  
<sup>\*1</sup> - Survey performed October 27, 2007  
<sup>\*2</sup> - Data Obtained on May 17, 2008

Former C F Plating, 406 North Pearl St., Albany, NY  
Revised *Limited* Subsurface Investigation Report of Findings, May 2008

TABLE 4

Soil Analytical Summary

| Analyte                     | Sample Point     |            |                |             |                |            |            |                |                |             |             |           |           |           |           |           | NYSDEC Soil Cleanup Objective (ug/Kg) |           |        |
|-----------------------------|------------------|------------|----------------|-------------|----------------|------------|------------|----------------|----------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|---------------------------------------|-----------|--------|
|                             | DRAIN (Concrete) | SB-1 (8-9) | SB-1 (Surface) | SB-2 (8-10) | SB-2 (Surface) | SB-3 (3-6) | SB-3 (7-9) | SB-3 (Surface) | SB-4 (Surface) | SB-5 (9-10) | SB-6 (8-12) | SS-A      | SS-B      | SS-C      | SS-D      | SS-E      |                                       | SS-F      |        |
| Sample Date                 | 10/04/06         | 10/03/06   | 10/03/06       | 10/03/06    | 10/03/06       | 10/03/06   | 10/03/06   | 10/03/06       | 10/04/06       | 10/04/06    | 10/04/06    | 10/04/06  | 10/04/06  | 10/04/06  | 10/04/06  | 10/04/06  | 10/04/06                              | 10/04/06  |        |
| <b>Volatiles - EPA 8260</b> |                  |            |                |             |                |            |            |                |                |             |             |           |           |           |           |           |                                       |           |        |
| 1,1,1-Trichloroethane       | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 800    |
| Methylene Chloride          | ND               | 15         | 15             | ND          | 9 (J)          | 8 (J)      | ND         | 8 (J)          | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | N/A    |
| 1,2,4-Trimethylbenzene      | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 3,300  |
| 1,3,5-Trimethylbenzene      | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 200    |
| 2-Isopropyltoluene          | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | NA     |
| Acetone                     | ND               | ND         | ND             | 15          | ND             | ND         | 19         | ND             | ND             | 22          | 31          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 200    |
| Benzene                     | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 60     |
| Chlorobenzene               | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1,700  |
| Ethylbenzene                | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 5,500  |
| Isopropylbenzene            | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 2,300  |
| m&p-Xylene                  | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1,200  |
| MTBE                        | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 120    |
| n-Butylbenzene              | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 10,000 |
| n-Propylbenzene             | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 3,700  |
| Naphthalene                 | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 13,000 |
| o-Xylene                    | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1,200  |
| p-Isopropyltoluene          | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1,000  |
| sec-Butylbenzene            | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 10,000 |
| tert-Butylbenzene           | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1,300  |
| Tetrachloroethene           | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1400   |
| Toluene                     | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 1,500  |
| Trichloroethene             | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 700    |
| Vinyl Chloride              | ND               | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND        | ND        | ND        | ND        | ND        | ND                                    | ND        | 200    |
| <b>Total Compounds</b>      | <b>ND</b>        | <b>15</b>  | <b>15</b>      | <b>15</b>   | <b>9</b>       | <b>8</b>   | <b>19</b>  | <b>8</b>       | <b>ND</b>      | <b>22</b>   | <b>31</b>   | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>ND</b>                             | <b>ND</b> |        |

All Results Reported in ug/Kg (parts per billion)  
(J) = Indicates an Estimated Value Reported by the Laboratory  
**RED** = Exceeds NYSDEC Soil Standards  
ND = Not Detected above the laboratories method detection limit  
N/A = Not Applicable/Not Available

Former C F Plating, 406 North Pearl St., Albany, NY  
 Revised *Limited* Subsurface Investigation Report of Findings, May 2008

TABLE 5

Soil Analytical Summary

| Analyte                | Sample Point     |            |                |             |                |            |            |                |                |             |             |          |            |               |          |          | NYSDEC Soil Cleanup Objective (ug/Kg) |                            |
|------------------------|------------------|------------|----------------|-------------|----------------|------------|------------|----------------|----------------|-------------|-------------|----------|------------|---------------|----------|----------|---------------------------------------|----------------------------|
|                        | DRAIN (Concrete) | SB-1 (8-9) | SB-1 (Surface) | SB-2 (8-10) | SB-2 (Surface) | SB-3 (3-6) | SB-3 (7-9) | SB-3 (Surface) | SB-4 (Surface) | SB-5 (9-10) | SB-6 (8-12) | SS-A     | SS-B       | SS-C          | SS-D     | SS-E     |                                       | SS-F                       |
| Sample Date            | 10/04/06         | 10/03/06   | 10/03/06       | 10/03/06    | 10/03/06       | 10/03/06   | 10/03/06   | 10/03/06       | 10/04/06       | 10/04/06    | 10/04/06    | 10/04/06 | 10/04/06   | 10/04/06      | 10/04/06 | 10/04/06 | 10/04/06                              | 10/04/06                   |
| <b>PCBs - EPA 8082</b> |                  |            |                |             |                |            |            |                |                |             |             |          |            |               |          |          |                                       |                            |
| Arochlor - 1016        | N/A              | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND       | ND         | ND            | ND       | ND       | ND                                    | 1,000/10,000* <sup>1</sup> |
| Arochlor - 1221        | N/A              | ND         | ND             | ND          | ND             |            | ND         | ND             | ND             | ND          | ND          | ND       | ND         | ND            | ND       | ND       | ND                                    | 1,000/10,000* <sup>1</sup> |
| Arochlor - 1232        | N/A              | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND       | ND         | ND            | ND       | ND       | ND                                    | 1,000/10,000* <sup>1</sup> |
| Arochlor - 1242        | N/A              | ND         | <b>58</b>      | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND       | ND         | ND            | ND       | ND       | ND                                    | 1,000/10,000* <sup>1</sup> |
| Arochlor - 1248        | N/A              | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND       | ND         | ND            | ND       | ND       | ND                                    | 1,000/10,000* <sup>1</sup> |
| Arochlor - 1254        | N/A              | ND         | ND             | ND          | ND             | ND         | ND         | ND             | ND             | ND          | ND          | ND       | ND         | ND            | ND       | ND       | ND                                    | 1,000/10,000* <sup>1</sup> |
| Arochlor - 1260        | N/A              | ND         | <b>53</b>      | ND          | <b>42</b>      | ND         | ND         | <b>25 (J)</b>  | ND             | ND          | ND          | ND       | <b>220</b> | <b>28 (J)</b> | ND       | ND       | <b>600</b>                            | 1,000/10,000* <sup>1</sup> |

All Results Reported in ug/Kg (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

**RED** = Exceeds NYSDEC Soil Standards

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

\*<sup>1</sup> = 1,000 for Surface contamination, 10,000 for subsurface contamination

**Former C F Plating, 406 North Pearl St., Albany, NY**  
**Revised Limited Subsurface Investigation Report of Findings, May 2008**

TABLE 6

**Soil Analytical Summary**

| Analyte           | Sample Point        |            |                   |             |                   |            |            |                   |                   |             |             |            |            |            |            |            | TAGM 4046<br>Recommended Soil<br>Cleanup Objectives |            |
|-------------------|---------------------|------------|-------------------|-------------|-------------------|------------|------------|-------------------|-------------------|-------------|-------------|------------|------------|------------|------------|------------|---|------------|
|                   | DRAIN<br>(Concrete) | SB-1 (8-9) | SB-1<br>(Surface) | SB-2 (8-10) | SB-2<br>(Surface) | SB-3 (3-6) | SB-3 (7-9) | SB-3<br>(Surface) | SB-4<br>(Surface) | SB-5 (9-10) | SB-6 (8-12) | SS-A       | SS-B       | SS-C       | SS-D       | SS-E       |   | SS-F       |
| Sample Date       | 10/04/06            | 10/03/06   | 10/03/06          | 10/03/06    | 10/03/06          | 10/03/06   | 10/03/06   | 10/03/06          | 10/04/06          | 10/04/06    | 10/04/06    | 10/04/06   | 10/04/06   | 10/04/06   | 10/04/06   | 10/04/06   | 10/04/06  | 10/04/06   |
| <b>TAL Metals</b> |                     |            |                   |             |                   |            |            |                   |                   |             |             |            |            |            |            |            |   |            |
| Aluminum          | 4,980               | 10,200     | 25,600            | 11,100      | 7,850             | 11,500     | 5,180      | 12,500            | 8,080             | 7,910       | 11,000      | 7,505      | 4,390      | 8,590      | 9,230      | 7,620      | 1,940   | SB         |
| Antimony          | ND                  | ND         | ND                | ND          | ND                | ND         | ND         | ND                | ND                | ND          | ND          | 39.3       | 101        | ND         | ND         | ND         | 18.5  | SB         |
| Arsenic           | ND                  | ND         | ND                | 3.5         | 2.2               | ND         | 1.4        | ND                | 3                 | ND          | 5.4         | ND         | ND         | 8.7        | 3.9        | 1.4        | 2.4   | 7.5 or SB  |
| Barium            | 76.2 (J)            | 86.5 (J)   | 1250 (J)          | 66.9 (J)    | 101 (J)           | 55.6 (J)   | 34.7 (J)   | 92.7 (J)          | 74 (J)            | 32.3 (J)    | 67.3 (J)    | 138 (J)    | 884 (J)    | 207 (J)    | 103 (J)    | 27.7 (J)   | 1,080 (J)   | 300 or SB  |
| Beryllium         | 0.48                | 0.43       | 2.3               | 0.6         | 0.59              | 0.35       | 0.22       | 0.32              | 0.32              | 0.31        | 0.5         | 0.4        | 0.69       | 0.37       | 0.33       | 0.26       | 0.46  | 0.16 or SB |
| Cadmium           | 3,900 (J)           | 2.8 (J)    | 44.2 (J)          | 3.9 (J)     | 89.4 (J)          | 2,450 (J)  | 2,420 (J)  | 2,260 (J)         | 4.8 (J)           | ND          | 152 (J)     | 1560 (J)   | 3920 (J)   | 3 (J)      | 4.3 (J)    | ND         | 966 (J)   | 1 or SB    |
| Calcium           | 121,000 (J)         | 15,000 (J) | 144,000 (J)       | 2,820 (J)   | 97,000 (J)        | 5,610 (J)  | 5,530 (J)  | 36,800 (J)        | 23,200 (J)        | 4,860 (J)   | 3,750 (J)   | 8,930 (J)  | 28,800 (J) | 46,200 (J) | 26,200 (J) | 22,900 (J) | 17,500 (J)  | SB         |
| Chromium          | 715                 | 18.6       | 17                | 30.3        | 64.2              | 82.2       | 14.6       | 787               | 21.3              | 14.5        | 353         | 2,830      | 4,400      | 48.9       | 37.9       | 15.3       | 1,220   | 10 or SB   |
| Cobalt            | 12.3 (J)            | 18.2 (J)   | 130 (J)           | 15.6 (J)    | 16.7 (J)          | 13 (J)     | 8.1 (J)    | 12.2 (J)          | 15.2 (J)          | 9.5 (J)     | 16.1 (J)    | 16.3 (J)   | 97.2 (J)   | 27.5 (J)   | 17.2 (J)   | 10.4 (J)   | 113 (J)   | 30 or SB   |
| Copper            | 1,910               | 27.3       | 46.7              | 37.3        | 1,380             | 13.2       | 8.4        | 547               | 135               | 14.6        | 25.2        | 1,840      | 3,770      | 48.9       | 397        | 22.9       | 2,560   | 25 or SB   |
| Cyanide           | 0.37                | 0.15       | 0.49              | 0.38        | 25.4              | 17.1       | 10         | 0.57              | 0.28              | 0.16        | 4.2         | 25         | 10.8       | 0.18       | 0.51       | 0.091      | 65.3  | SB***      |
| Iron              | 25,100 (J)          | 18,800 (J) | 16,800 (J)        | 18600 (J)   | 12,700 (J)        | 17,800 (J) | 11,100 (J) | 40,500 (J)        | 17,100 (J)        | 16,500 (J)  | 16,700 (J)  | 66,600 (J) | 90,500 (J) | 18,400 (J) | 17,600 (J) | 16,800 (J) | 68,700 (J)  | 2,000      |
| Lead              | 615 (J)             | 10.2 (J)   | 54.8 (J)          | 0.57 (J)    | 22.1 (J)          | 20.5 (J)   | 10.8 (J)   | 250 (J)           | 134 (J)           | ND          | ND          | 293 (J)    | 3,210 (J)  | 354 (J)    | 259 (J)    | ND         | 1,830   | SB****     |
| Magnesium         | 6,150 (J)           | 4,240 (J)  | 11,300 (J)        | 5,220 (J)   | 5,640 (J)         | 3,580 (J)  | 2,720 (J)  | 4,790 (J)         | 5,510 (J)         | 4,250 (J)   | 5,690 (J)   | 3,770 (J)  | 4,290 (J)  | 7,490 (J)  | 5,960 (J)  | 7,950 (J)  | 1,410 (J)   | SB         |
| Manganese         | 265 (J)             | 593 (J)    | 1,970 (J)         | 236 (J)     | 386 (J)           | 522 (J)    | 268 (J)    | 320 (J)           | 377 (J)           | 395 (J)     | 409 (J)     | 505 (J)    | 685 (J)    | 441 (J)    | 497 (J)    | 416 (J)    | 265 (J)   | SB         |
| Mercury           | 0.14                | 0.048      | 0.045             | 0.89        | 0.13              | 0.097      | 0.051      | 0.16              | 0.1               | 0.034       | 0.06        | 0.17       | 0.35       | 0.21       | 0.21       | 0.046      | 0.53  | 0.1        |
| Nickel            | 3,250 (J)           | ND         | 1.2 (J)           | 354 (J)     | 1,300 (J)         | 82 (J)     | 73.1 (J)   | 259 (J)           | ND                | ND          | ND          | 679 (J)    | 1,170      | ND         | ND         | ND         | 1070 (J)  | 13 or SB   |
| Potassium         | 716 (J)             | 1,300 (J)  | 3,230 (J)         | 1,280 (J)   | 801 (J)           | 1,350 (J)  | 621 (J)    | 1,550 (J)         | 1,490 (J)         | 873 (J)     | 1,370 (J)   | 863 (J)    | 850 (J)    | 1,530 (J)  | 1,480 (J)  | 1,440 (J)  | 3,330 (J)   | SB or SB   |
| Selenium          | ND                  | ND         | ND                | ND          | ND                | ND         | ND         | ND                | ND                | ND          | ND          | ND         | ND         | ND         | ND         | ND         | ND  | 2          |
| Silver            | ND                  | ND         | 2.1               | ND          | ND                | ND         | ND         | ND                | ND                | ND          | ND          | ND         | ND         | ND         | ND         | ND         | 24.9  | SB         |
| Sodium            | 572 (J)             | 247 (J)    | 3,320 (J)         | 98.9 (J)    | 177 (J)           | 1,640 (J)  | 680 (J)    | 6,620 (J)         | 94.1 (J)          | 82.3 (J)    | 167 (J)     | 612 (J)    | 1,320 (J)  | 262 (J)    | 342 (J)    | 266 (J)    | 3,420 (J)   | SB         |
| Thallium          | ND                  | ND         | ND                | ND          | ND                | ND         | ND         | ND                | ND                | ND          | ND          | ND         | ND         | ND         | ND         | ND         | ND  | SB         |
| Vanadium          | 2.8                 | 17.8       | 15.6              | 11.1        | 41.9              | 14.8       | 6.1        | 10.8              | 12                | 7           | 11.3        | ND         | ND         | 18.6       | 15.6       | 7.9        | 4.2   | 150 or SB  |
| Zinc              | 3,380 (J)           | 77.4 (J)   | 214 (J)           | 107 (J)     | 321 (J)           | 205 (J)    | 279 (J)    | 1,250 (J)         | 117 (J)           | 45.3 (J)    | 116 (J)     | 3,980 (J)  | 1,800 (J)  | 188 (J)    | 371 (J)    | 74.7 (J)   | 931 (J)   | 20 or SB   |

All Results Reported in mg/Kg (parts per million)

(J) = Indicates an Estimated Value Reported by the Laboratory

RED = Exceeds NYSDEC Soil Standards

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

SB = Site Background

\*\*\* = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective.

\*\*\*\* = Background levels for lead vary widely. Average levels in undeveloped, rural areas range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

**Former C F Plating**  
**406 North Pearl St., Albany, NY**  
**Limited Subsurface Investigation Report, March 2007**

| TABLE 7                        |              |           |           |           |           |  |
|--------------------------------|--------------|-----------|-----------|-----------|-----------|--|
| Groundwater Analytical Summary |              |           |           |           |           |  |
| Analyte                        | Sample Point |           |           |           |           | NYS DEC<br>Groundwater<br>Standards (ug/L) |
|                                | MW-1         | MW-2      | MW-3      | MW-4      | MW-5      |  |
| <b>Volatiles - EPA 8260</b>    |              |           |           |           |           |  |
| 2-Chlorophenol                 | ND           | ND        | ND        | ND        | 2 (J)     | 5  |
| 1,1,1-Trichloroethane          | ND           | ND        | ND        | ND        | ND        | 5  |
| Methylene Chloride             | ND           | ND        | ND        | ND        | ND        | 5  |
| 1,2,4-Trimethylbenzene         | ND           | ND        | ND        | ND        | ND        | 5  |
| 1,3,5-Trimethylbenzene         | ND           | ND        | ND        | ND        | ND        | 5  |
| 2-Isopropyltoluene             | ND           | ND        | ND        | ND        | ND        | 5  |
| Acetone                        | ND           | ND        | ND        | ND        | ND        | 5  |
| Benzene                        | ND           | ND        | ND        | ND        | ND        | 0.7  |
| Chlorobenzene                  | ND           | ND        | ND        | ND        | ND        | 5  |
| Ethylbenzene                   | ND           | ND        | ND        | ND        | ND        | 5  |
| Isopropylbenzene               | ND           | ND        | ND        | ND        | ND        | 5  |
| m&p-Xylene                     | ND           | ND        | ND        | ND        | ND        | 5  |
| MTBE                           | ND           | ND        | ND        | ND        | ND        | 10   |
| n-Butylbenzene                 | ND           | ND        | ND        | ND        | ND        | 5  |
| n-Propylbenzene                | ND           | ND        | ND        | ND        | ND        | 5  |
| Naphthalene                    | ND           | ND        | ND        | ND        | ND        | 10   |
| o-Xylene                       | ND           | ND        | ND        | ND        | ND        | 5  |
| p-Isopropyltoluene             | ND           | ND        | ND        | ND        | ND        | 5  |
| sec-Butylbenzene               | ND           | ND        | ND        | ND        | ND        | 5  |
| tert-Butylbenzene              | ND           | ND        | ND        | ND        | ND        | 5  |
| Tetrachloroethene              | ND           | ND        | ND        | ND        | ND        | 5  |
| Toluene                        | ND           | ND        | ND        | ND        | ND        | 5  |
| Trichloroethene                | ND           | ND        | ND        | ND        | ND        | 5  |
| Vinyl Chloride                 | ND           | ND        | ND        | ND        | ND        | 2  |
| <b>BTEX</b>                    | <b>ND</b>    | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>ND</b> |  |
| <b>Total Compounds</b>         | <b>ND</b>    | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>2</b>  |  |

All Results Reported in ug/L (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

RED = Exceeds NYSDEC Groundwater Standards

ND = Not Detected

N/A = Not Applicable/Not Available

BTEX = Benzene, Toluene, Ethylbenzene & Xylene Compounds

Samples obtained on October 27, 2007

**Former C F Plating**  
**406 North Pearl St., Albany, NY**  
**Limited Subsurface Investigation Report, March 2007**

| TABLE 8                          |              |           |           |           |          |  |
|----------------------------------|--------------|-----------|-----------|-----------|----------|--|
| Groundwater Analytical Summary   |              |           |           |           |          |  |
| Analyte                          | Sample Point |           |           |           |          | NYS DEC<br>Groundwater<br>Standards (ug/L) |
|                                  | MW-1         | MW-2      | MW-3      | MW-4      | MW-5     |  |
| <b>Semi Volatiles - EPA 8270</b> |              |           |           |           |          |  |
| Napthalene                       | ND           | ND        | ND        | ND        | ND       | 10   |
| 2-Chlorophenol                   | ND           | ND        | ND        | ND        | 2 (J)    | N/A  |
| 2-Methylnapthalene               | ND           | ND        | ND        | ND        | ND       | N/A  |
| Acenaphthene                     | ND           | ND        | ND        | ND        | ND       | 20   |
| Dibenzofuran                     | ND           | ND        | ND        | ND        | ND       | N/A  |
| Fluorene                         | ND           | ND        | ND        | ND        | ND       | 50   |
| Phenanthrene                     | ND           | ND        | ND        | ND        | ND       | 50   |
| Anthracene                       | ND           | ND        | ND        | ND        | ND       | 50   |
| Carbazole                        | ND           | ND        | ND        | ND        | ND       | N/A  |
| Fluoranthene                     | ND           | ND        | ND        | ND        | ND       | 50   |
| Pyrene                           | ND           | ND        | ND        | ND        | ND       | 50   |
| Benzo(a)anthracene               | ND           | ND        | ND        | ND        | ND       | 0.002                                      |
| Chrysene                         | ND           | ND        | ND        | ND        | ND       | 0.002                                      |
| bis (2-Ethylhexyl) phthalate     | ND           | ND        | ND        | ND        | ND       | N/A  |
| Benzo(b)fluoranthene             | ND           | ND        | ND        | ND        | ND       | 0.002                                      |
| Benzo(k)fluoranthene             | ND           | ND        | ND        | ND        | ND       | 0.002                                      |
| Benzo(a)pyrene                   | ND           | ND        | ND        | ND        | ND       | 0.002                                      |
| Indeno(1,2,3-cd)pyrene           | ND           | ND        | ND        | ND        | ND       | 0.002                                      |
| Dibenzo(a,h)anthracene           | ND           | ND        | ND        | ND        | ND       | 50   |
| Benzo(g,h,i)perylene             | ND           | ND        | ND        | ND        | ND       | 5  |
| <b>Total Compounds</b>           | <b>ND</b>    | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>2</b> |  |

All Results Reported in ug/L (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

RED = Exceeds NYSDEC Groundwater Standards

ND = Not Detected

N/A = Not Applicable/Not Available

Samples obtained on October 27, 2006

**Former C F Plating**  
**406 North Pearl St., Albany, NY**  
**Limited Subsurface Investigation Report of Findings, March 2007**

| TABLE 9                        |              |          |          |          |          |   |
|--------------------------------|--------------|----------|----------|----------|----------|---|
| Groundwater Analytical Summary |              |          |          |          |          |   |
| Analyte                        | Sample Point |          |          |          |          | NYSDEC<br>Groundwater<br>Standard<br>(ug/L) |
|                                | MW-1         | MW-2     | MW-3     | MW-4     | MW-5     |   |
| Sample Date                    | 10/27/06     | 10/27/06 | 10/27/06 | 10/27/06 | 10/27/06 |   |
| <b>PCBs - EPA 8082</b>         |              |          |          |          |          |   |
| Arochlor - 1016                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |
| Arochlor - 1221                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |
| Arochlor - 1232                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |
| Arochlor - 1242                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |
| Arochlor - 1248                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |
| Arochlor - 1254                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |
| Arochlor - 1260                | ND           | ND       | ND       | ND       | ND       | <b>0.1</b>                                  |

All Results Reported in ug/L (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

**RED** = Exceeds NYSDEC Soil Standards

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Former C F Plating**  
**406 North Pearl St., Albany, NY**  
**Limited Subsurface Investigation Report of Findings, March 2007**

| TABLE 10                       |              |             |             |             |            |   |
|--------------------------------|--------------|-------------|-------------|-------------|------------|---|
| Groundwater Analytical Summary |              |             |             |             |            |   |
| Analyte                        | Sample Point |             |             |             |            | NYSDEC<br>Groundwater<br>Standard<br>(ug/L)* <sup>1</sup> |
|                                | MW-1         | MW-2        | MW-3        | MW-4        | MW-5       |   |
| Sample Date                    | 10/27/06     | 10/27/06    | 10/27/06    | 10/27/06    | 10/27/06   |   |
| <b>TAL Metals</b>              |              |             |             |             |            |   |
| Aluminum                       | 48,800 (J)   | 128,000 (J) | 212,000 (J) | 38,200 (J)  | 36,700 (J) | N/A   |
| Antimony                       | 51.50        | 56.30       | 168         | 61.80       | 87.50      | 3   |
| Arsenic                        | ND           | ND          | ND          | 30.50       | ND         | 25  |
| Barium                         | 581          | 1,380       | 3,000       | 691         | 665        | 1,000   |
| Beryllium                      | 3.10 (J)     | 8.10 (J)    | 18.80 (J)   | 2.60 (J)    | 2.1 (J)    | N/A* <sup>2</sup>   |
| Cadmium                        | 1.60         | 479         | 21,000      | 69.60       | 11,700     | 5   |
| Calcium                        | 191,000      | 206,000     | 363,000     | 269,000     | 114,000    | N/A   |
| Chromium                       | 98.80        | 3,100       | 3,360       | 92          | 3,960      | 50  |
| Cobalt                         | 106          | 282         | 483         | 102         | 83.80      | 5   |
| Copper                         | 163          | 5,480       | 7,400       | 143         | 344        | 200   |
| Iron                           | 161,000 (J)  | 394,000 (J) | 584,000 (J) | 131,000 (J) | 89,400 (J) | 300   |
| Lead                           | 29.70 (J)    | 158 (J)     | 2,200 (J)   | 22.7 (J)    | 86.50 (J)  | 25  |
| Magnesium                      | 57,700       | 89,700      | 156,000     | 43,200      | 30,400     | 35,000  |
| Manganese                      | 2,420 (J)    | 4,490 (J)   | 8,030 (J)   | 1,640 (J)   | 3,290 (J)  | 300   |
| Mercury                        | 0.21         | 0.83        | 1.70        | 0.22        | 1.10       | 0.7   |
| Nickel                         | 14.40 (J)    | 9,290 (J)   | 3,510 (J)   | 43.40 (J)   | 407 (J)    | 100   |
| Potassium                      | 13,200 (J)   | 22,600 (J)  | 32,700 (J)  | 18,000 (J)  | 11,100 (J) | N/A   |
| Selenium                       | ND           | ND          | ND          | ND          | ND         | 10  |
| Silver                         | ND           | ND          | ND          | ND          | ND         | 50  |
| Sodium                         | 46,300 (J)   | 34,200 (J)  | 112,000 (J) | 142,000 (J) | 90,500 (J) | 20,000  |
| Thallium                       | ND           | ND          | ND          | ND          | 4.90       | N/A   |
| Vanadium                       | 82           | 183         | 365         | 68.50       | 51.80      | N/A   |
| Zinc                           | 384 (J)      | 2,990 (J)   | 7,120 (J)   | 366 (J)     | 6,930 (J)  | N/A   |

All Results Reported in ug/L (parts per billion)

\*<sup>1</sup> = Pursuant to 6 NYCRR Part 703 Surface Water & Groundwater Quality Standards

\*<sup>2</sup> = Standard depends on Hardness

(J) = Indicates an Estimated Value Reported by the Laboratory

**RED** = Exceeds NYSDEC Soil Standards

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Former C and F Plating**  
**406 North Pearl St., Albany, NY**  
**Limited Subsurface Investigation Report of Findings, April 2007**

| TABLE 10A                      |              |            |             |             |            |   |
|--------------------------------|--------------|------------|-------------|-------------|------------|---|
| Groundwater Analytical Summary |              |            |             |             |            |   |
| Analyte                        | Sample Point |            |             |             |            | NYSDEC<br>Groundwater<br>Standard<br>(ug/L) <sup>*1</sup> |
|                                | MW-1         | MW-2       | MW-3        | MW-4        | MW-5       |   |
| <b>Sample Date</b>             | 05/17/07     | 05/17/07   | 05/17/07    | 05/17/07    | 05/17/07   |   |
| Turbidity                      | 26           | 6.5        | 5.8         | 20.1        | 0.0        | N/A   |
| <b>TAL Metals</b>              |              |            |             |             |            |   |
| Aluminum                       | 122 (B)      | 70.2 (B)   | 91.6 (B)    | 58.1 (B)    | 40.7 (B)   | N/A   |
| Antimony                       | 61.5         | ND         | ND          | ND          | ND         | 3   |
| Arsenic                        | 6.5 (B)      | ND         | 6.1 (B)     | ND          | ND         | 25  |
| Barium                         | 124 (B)      | 93.8 (B)   | 254         | 91.6 (B)    | 69.2 (B)   | 1,000   |
| Beryllium                      | 0.14 (B)     | ND         | .13 (B)     | ND          | ND         | N/A <sup>*2</sup>   |
| Cadmium                        | ND           | 34.1       | 728         | 25          | 29.1       | 5   |
| Calcium                        | 133,000 (E)  | 97,500 (E) | 201,000 (E) | 208,000 (E) | 84,700 (E) | N/A   |
| Chromium                       | ND           | 68.8       | ND          | ND          | 30.9       | 50  |
| Cobalt                         | ND           | ND         | ND          | ND          | ND         | 5   |
| Copper                         | 5.8 (B)      | 36.7       | 5.2 (B)     | 4.3 (B)     | 5.7 (B)    | 200   |
| Iron                           | 3,050        | 86.4 (B)   | 3,920       | 324         | 70.9 (B)   | 300   |
| Lead                           | ND           | ND         | ND          | ND          | ND         | 25  |
| Magnesium                      | 37,500 (E)   | 11,300 (E) | 38,400 (E)  | 33,800 (E)  | 14,300 (E) | 35,000  |
| Manganese                      | 718          | 92.7       | 1,660       | 24.2        | 43         | 300   |
| Mercury                        | .09 (B)      | ND         | .08 (B)     | ND          | ND         | 0.7   |
| Nickel                         | ND           | 157        | 336         | 2.2 (B)     | 5.8 (B)    | 100   |
| Potassium                      | 4,080 (B)    | 3,710 (B)  | 6,200 (E)   | 10,800 (E)  | 4,320 (B)  | N/A   |
| Selenium                       | 10.3         | ND         | ND          | ND          | ND         | 10  |
| Silver                         | ND           | ND         | ND          | ND          | ND         | 50  |
| Sodium                         | 43,500       | 53,800     | 128,000     | 172,000     | 83,000     | 20,000  |
| Thallium                       | 12.20        | 9.3 (B)    | 12.6        | 9.3 (B)     | 7.6 (B)    | N/A   |
| Vanadium                       | ND           | ND         | ND          | ND          | 7 (B)      | N/A   |
| Zinc                           | 11.6 (B)     | 24.7       | 177         | 16 (B)      | 14.7 (B)   | N/A   |

All Results Reported in ug/L (parts per billion)

\*1 = Pursuant to 6 NYCRR Part 703 Surface Water & Groundwater Quality Standards

\*2 = Standard depends on Hardness

(B) = Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit but greater than or equal to the Instrument Detection Limit

(E) = Indicates the reported value is estimated because of the presence of interference

**RED** = Exceeds NYSDEC Groundwater Standards

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Former C F Plating, 406 North Pearl St., Albany, NY**  
**Revised *Limited* Subsurface Investigation Report of Findings, May 2008**

| TABLE 11                                  |              |           |              |                     |                     |
|---|--------------|-----------|--------------|---------------------|---------------------|
| Patroon Creek Sediment Analytical Summary |              |           |              |                     |                     |
| Analyte                                   | Sample Point |           |              |                     |                     |
|   | Background   | C&F East  | C&F West     | Patroon Mouth North | Patroon Mouth South |
| Sample Date                               | 10/27/06     | 10/27/06  | 10/27/06     | 10/27/06            | 10/27/06            |
| <b>Volatiles - EPA 8260</b>               |              |           |              |                     |                     |
| 1,1,1-Trichloroethane                     | ND           | ND        | ND           | ND                  | ND                  |
| Methylene Chloride                        | <b>9 (J)</b> | ND        | <b>5 (J)</b> | ND                  | ND                  |
| 1,2,4-Trimethylbenzene                    | ND           | ND        | ND           | ND                  | ND                  |
| 1,3,5-Trimethylbenzene                    | ND           | ND        | ND           | ND                  | ND                  |
| 2-Isopropyltoluene                        | ND           | ND        | ND           | ND                  | ND                  |
| Acetone                                   | ND           | ND        | ND           | <b>19</b>           | <b>12 (J)</b>       |
| Benzene                                   | ND           | ND        | ND           | ND                  | ND                  |
| Chlorobenzene                             | ND           | ND        | ND           | ND                  | ND                  |
| Ethylbenzene                              | ND           | ND        | ND           | ND                  | ND                  |
| Isopropylbenzene                          | ND           | ND        | ND           | ND                  | ND                  |
| m&p-Xylene                                | ND           | ND        | ND           | ND                  | ND                  |
| MTBE                                      | ND           | ND        | ND           | ND                  | ND                  |
| n-Butylbenzene                            | ND           | ND        | ND           | ND                  | ND                  |
| n-Propylbenzene                           | ND           | ND        | ND           | ND                  | ND                  |
| Naphthalene                               | ND           | ND        | ND           | ND                  | ND                  |
| o-Xylene                                  | ND           | ND        | ND           | ND                  | ND                  |
| p-Isopropyltoluene                        | ND           | ND        | ND           | ND                  | ND                  |
| sec-Butylbenzene                          | ND           | ND        | ND           | ND                  | ND                  |
| tert-Butylbenzene                         | ND           | ND        | ND           | ND                  | ND                  |
| Tetrachloroethene                         | ND           | ND        | ND           | ND                  | ND                  |
| Toluene                                   | ND           | ND        | ND           | ND                  | ND                  |
| Trichloroethene                           | ND           | ND        | ND           | ND                  | ND                  |
| Vinyl Chloride                            | ND           | ND        | ND           | ND                  | ND                  |
| <b>Total Compounds</b>                    | <b>9</b>     | <b>ND</b> | <b>5</b>     | <b>19</b>           | <b>12</b>           |

All Results Reported in ug/Kg (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Former C F Plating, 406 North Pearl St., Albany, NY**  
**Revised *Limited* Subsurface Investigation Report of Findings, May 2008**

| TABLE 12                                  |              |              |              |                     |                     |
|---|--------------|--------------|--------------|---------------------|---------------------|
| Patroon Creek Sediment Analytical Summary |              |              |              |                     |                     |
| Analyte                                   | Sample Point |              |              |                     |                     |
|   | Background   | C&F East     | C&F West     | Patroon Mouth North | Patroon Mouth South |
| Sample Date                               | 10/27/06     | 10/27/06     | 10/27/06     | 10/27/06            | 10/27/06            |
| <b>Semi Volatiles - EPA 8270</b>          |              |              |              |                     |                     |
| Napthalene                                | ND           | ND           | ND           | ND                  | ND                  |
| 2-Methylnapthalene                        | ND           | ND           | ND           | ND                  | ND                  |
| Acenaphthene                              | ND           | ND           | ND           | ND                  | ND                  |
| Dibenzofuran                              | ND           | ND           | ND           | ND                  | ND                  |
| Fluorene                                  | ND           | ND           | ND           | ND                  | ND                  |
| Phenanthrene                              | 650          | 630          | 110 (J)      | 1,000               | 150 (J)             |
| Anthracene                                | 220 (J)      | 130 (J)      | ND           | 430 (J)             | ND                  |
| Carbazole                                 | 120 (J)      | 120 (J)      | ND           | 160 (J)             | ND                  |
| Fluoranthene                              | 910          | 1,800        | 250 (J)      | 2,300               | 410 (J)             |
| Pyrene                                    | 730          | 1,400        | 220 (J)      | 1,600               | 480                 |
| Benzo(a)anthracene                        | 320 (J)      | 860          | 120 (J)      | 860                 | 190 (J)             |
| Chrysene                                  | 400          | 950          | 150 (J)      | 980                 | 200 (J)             |
| bis (2-Ethylhexyl) phthalate              | 160 (J)      | 140 (J)      | 130 (J)      | 420 (J)             | 150 (J)             |
| Benzo(b)fluoranthene                      | 350 (J)      | 790          | 140 (J)      | 820                 | 130 (J)             |
| Benzo(k)fluoranthene                      | 320 (J)      | 620          | 140 (J)      | 670                 | 110 (J)             |
| Benzo(a)pyrene                            | 300 (J)      | 200 (J)      | 120 (J)      | 740                 | 150 (J)             |
| Indeno(1,2,3-cd)pyrene                    | 190 (J)      | 450          | ND           | 450 (J)             | ND                  |
| Dibenzo(a,h)anthracene                    | ND           | ND           | ND           | ND                  | ND                  |
| Benzo(g,h,i)perylene                      | 200(J)       | 430          | ND           | 430 (J)             | ND                  |
| <b>Total Compounds</b>                    | <b>4,870</b> | <b>8,520</b> | <b>1,380</b> | <b>10,860</b>       | <b>1,970</b>        |

All Results Reported in ug/Kg (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Former C F Plating, 406 North Pearl St., Albany, NY**  
**Revised *Limited* Subsurface Investigation Report of Findings, May 2008**

| TABLE 13                                  |              |               |          |                        |                        |
|---|--------------|---------------|----------|------------------------|------------------------|
| Patroon Creek Sediment Analytical Summary |              |               |          |                        |                        |
| Analyte                                   | Sample Point |               |          |                        |                        |
|   | Background   | C&F East      | C&F West | Patroon Mouth<br>North | Patroon Mouth<br>South |
| Sample Date                               | 10/27/06     | 10/27/06      | 10/27/06 | 10/27/06               | 10/27/06               |
| <b>PCBs - EPA 8082</b>                    |              |               |          |                        |                        |
| Arochlor - 1016                           | ND           | ND            | ND       | ND                     | ND                     |
| Arochlor - 1221                           | ND           | ND            | ND       | ND                     | ND                     |
| Arochlor - 1232                           | ND           | ND            | ND       | ND                     | ND                     |
| Arochlor - 1242                           | ND           | ND            | ND       | <b>93</b>              | <b>150</b>             |
| Arochlor - 1248                           | ND           | ND            | ND       | ND                     | ND                     |
| Arochlor - 1254                           | ND           | ND            | ND       | ND                     | ND                     |
| Arochlor - 1260                           | ND           | <b>40 (J)</b> | ND       | ND                     | ND                     |

All Results Reported in ug/Kg (parts per billion)

(J) = Indicates an Estimated Value Reported by the Laboratory

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Former C F Plating, 406 North Pearl St., Albany, NY**  
**Revised *Limited* Subsurface Investigation Report of Findings, May 2008**

| TABLE 14                                  |                   |                   |                   |                        |                        |
|---|-------------------|-------------------|-------------------|------------------------|------------------------|
| Patroon Creek Sediment Analytical Summary |                   |                   |                   |                        |                        |
| Analyte                                   | Sample Point      |                   |                   |                        |                        |
|   | Background        | C&F East          | C&F West          | Patroon Mouth<br>North | Patroon Mouth<br>South |
| Sample Date                               | 10/27/06          | 10/27/06          | 10/27/06          | 10/27/06               | 10/27/06               |
| <b>TAL Metals</b>                         |                   |                   |                   |                        |                        |
| Aluminum                                  | <b>5,770</b>      | <b>4,530</b>      | <b>7,340</b>      | <b>3,480</b>           | <b>7,560</b>           |
| Antimony                                  | <b>9.70</b>       | <b>22.30</b>      | <b>13.20</b>      | ND                     | ND                     |
| Arsenic                                   | ND                | ND                | ND                | ND                     | ND                     |
| Barium                                    | <b>45.60</b>      | <b>38.80</b>      | <b>54.10</b>      | <b>28.80</b>           | <b>38.70</b>           |
| Beryllium                                 | <b>0.41</b>       | <b>0.44</b>       | <b>0.54</b>       | <b>0.28</b>            | <b>0.45</b>            |
| Cadmium                                   | ND                | <b>0.43</b>       | ND                | ND                     | ND                     |
| Calcium                                   | <b>21,400</b>     | <b>3,270</b>      | <b>18,100</b>     | <b>12,400</b>          | <b>39,500</b>          |
| Chromium                                  | <b>12</b>         | <b>13.20</b>      | <b>13.50</b>      | <b>9.80</b>            | <b>24.30</b>           |
| Cobalt                                    | <b>10.70</b>      | <b>9.40</b>       | <b>13</b>         | <b>4.60</b>            | <b>6.70</b>            |
| Copper                                    | <b>24.30</b>      | <b>40.20</b>      | <b>28.80</b>      | <b>16.60</b>           | <b>16.50</b>           |
| Cyanide                                   | <b>0.35</b>       | ND                | ND                | ND                     | ND                     |
| Iron                                      | <b>17,100 (J)</b> | <b>15,100 (J)</b> | <b>18,600 (J)</b> | <b>11,400 (J)</b>      | <b>20,000 (J)</b>      |
| Lead                                      | <b>37.30 (J)</b>  | <b>62.10 (J)</b>  | <b>49.70 (J)</b>  | <b>63.50 (J)</b>       | <b>129 (J)</b>         |
| Magnesium                                 | <b>5,960</b>      | <b>2,930</b>      | <b>5,140</b>      | <b>2,980</b>           | <b>9,700</b>           |
| Manganese                                 | <b>721</b>        | <b>364</b>        | <b>654</b>        | <b>268</b>             | <b>416</b>             |
| Mercury                                   | <b>0.05</b>       | <b>0.15</b>       | <b>0.055</b>      | <b>0.17</b>            | <b>0.13</b>            |
| Nickel                                    | <b>0.54</b>       | <b>8</b>          | <b>6.30</b>       | <b>6</b>               | <b>3.60</b>            |
| Potassium                                 | <b>363</b>        | <b>380</b>        | <b>509</b>        | <b>247</b>             | <b>476</b>             |
| Selenium                                  | ND                | ND                | ND                | ND                     | ND                     |
| Silver                                    | ND                | ND                | ND                | ND                     | ND                     |
| Sodium                                    | <b>133</b>        | <b>148</b>        | <b>170</b>        | <b>107</b>             | <b>149</b>             |
| Thallium                                  | ND                | ND                | ND                | ND                     | ND                     |
| Vanadium                                  | <b>8.10</b>       | <b>8.50</b>       | <b>13.40</b>      | <b>5</b>               | <b>9.20</b>            |
| Zinc                                      | <b>93.50 (J)</b>  | <b>136 (J)</b>    | <b>133 (J)</b>    | <b>94.40 (J)</b>       | <b>112 (J)</b>         |

All Results Reported in mg/Kg (parts per million)

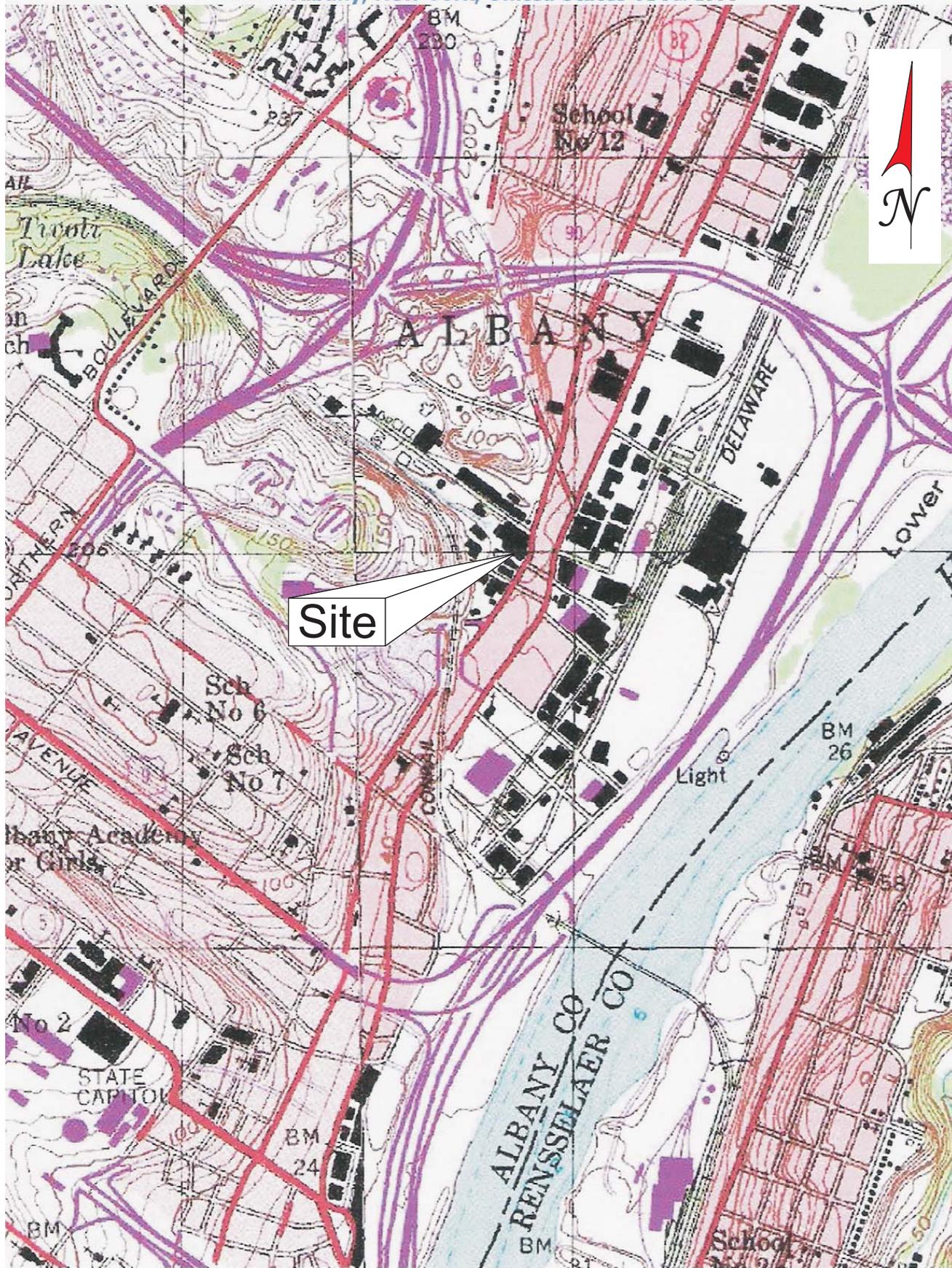
(J) = Indicates an Estimated Value Reported by the Laboratory

ND = Not Detected above the laboratories method detection limit

N/A = Not Applicable/Not Available

**Attachment B**

**FIGURES**



Site

0 0.5Km 0 0.25Mi

PRECISION ENVIRONMENTAL SERVICES  
 Lot 28C, Curtis Industrial Park  
 831 Route 67  
 Ballston Spa, New York 12020  
 (518) 885-4399



**C&F Plating**  
**Site Location Map**

Location: 406 North Pearl St., Albany, NY

Date: May 2008

Project No.: NYSDEC Spill #02-09561

Scale - As Shown

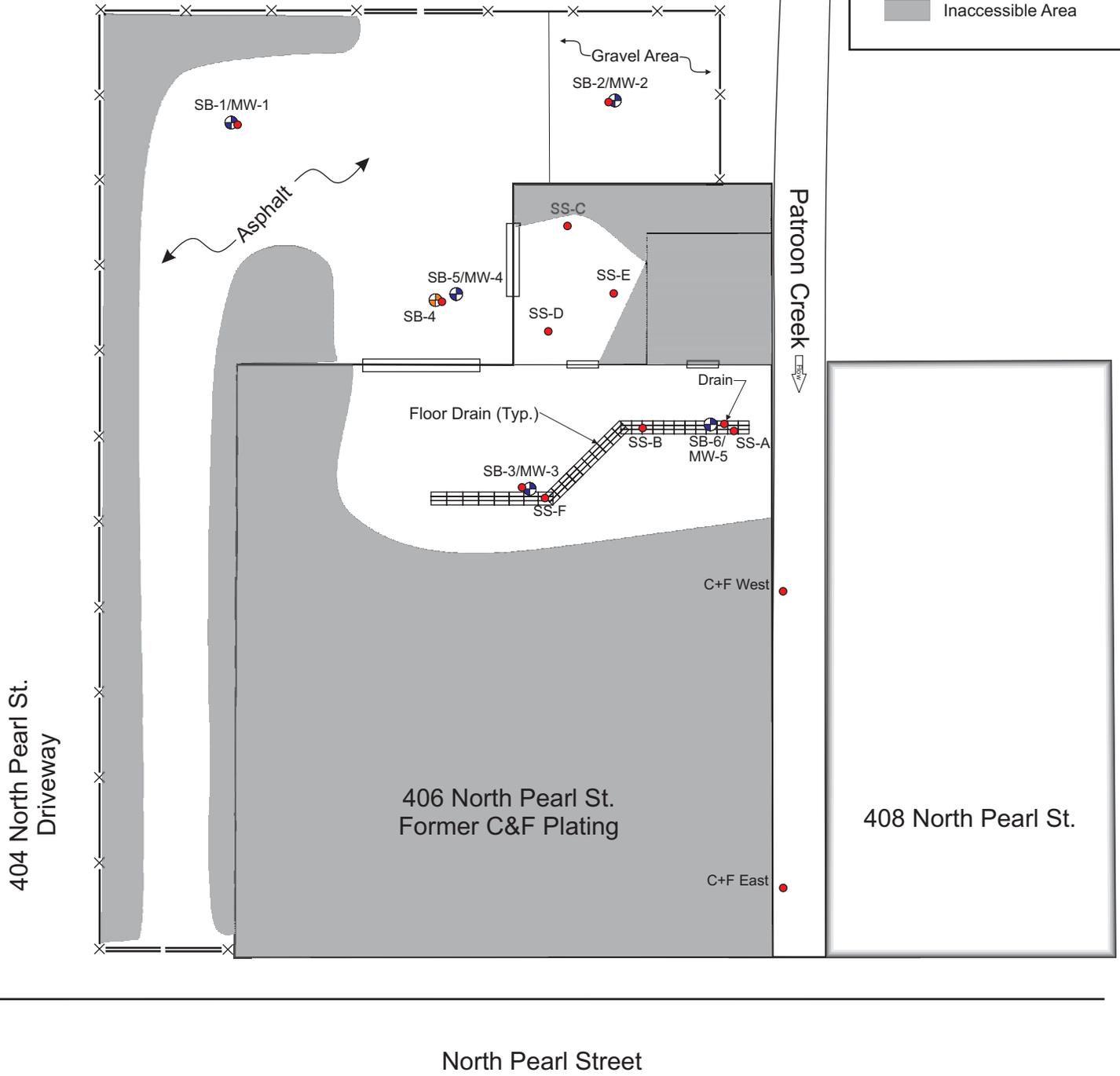
Drawn By: Map Courtesy of the USGS

Figure: 1



**LEGEND**

- SS-A Surface Soil Sample
- SB-1 Soil Boring
- MW-1 Monitoring Well
- Inaccessible Area



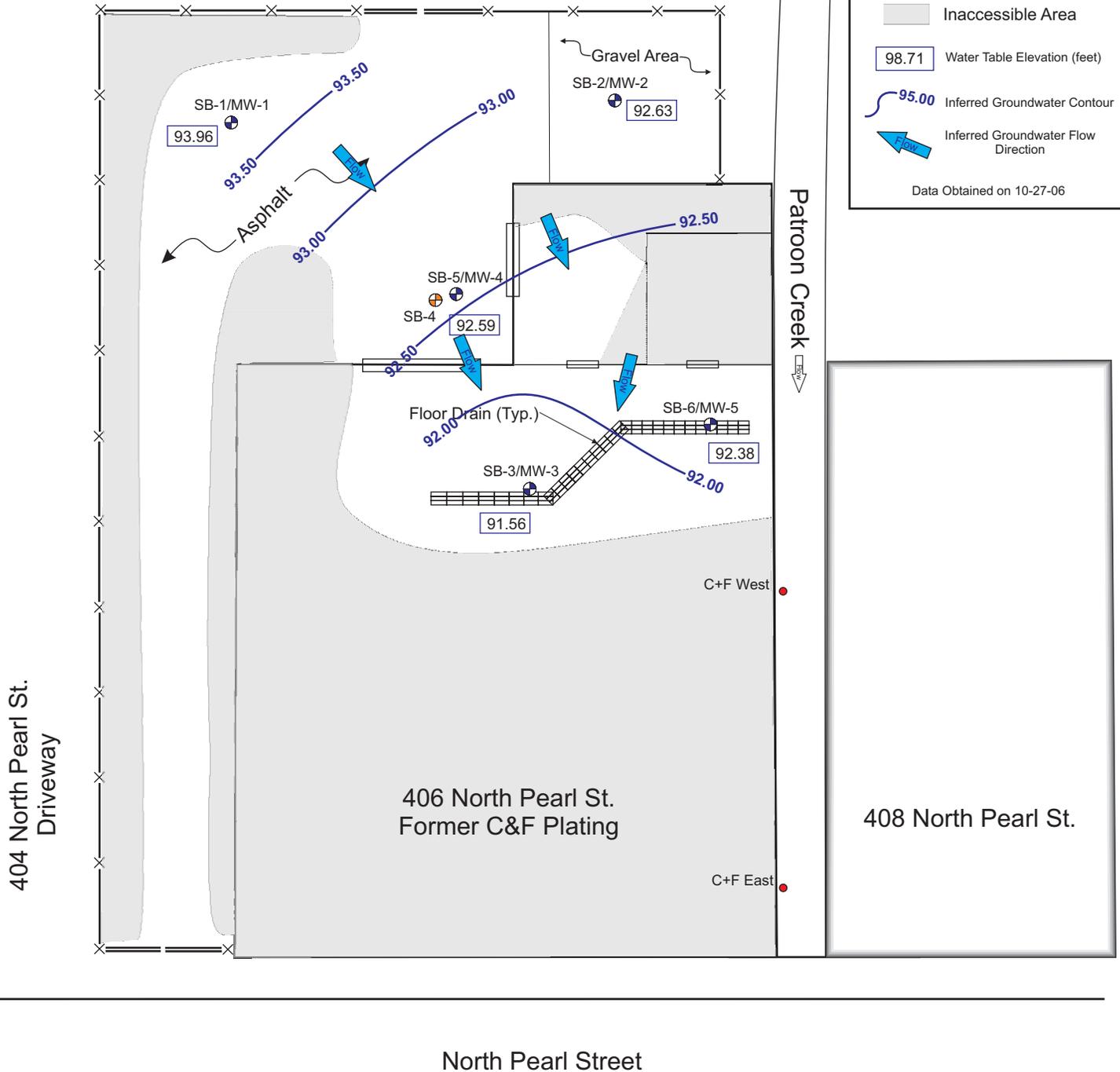


Background

### LEGEND

- C+F East ● Surface Soil Sample
- SB-1 ⊕ Soil Boring
- MW-1 ⊕ Monitoring Well
- Inaccessible Area
- 98.71 Water Table Elevation (feet)
- ~ 95.00 Inferred Groundwater Contour
- Inferred Groundwater Flow Direction

Data Obtained on 10-27-06



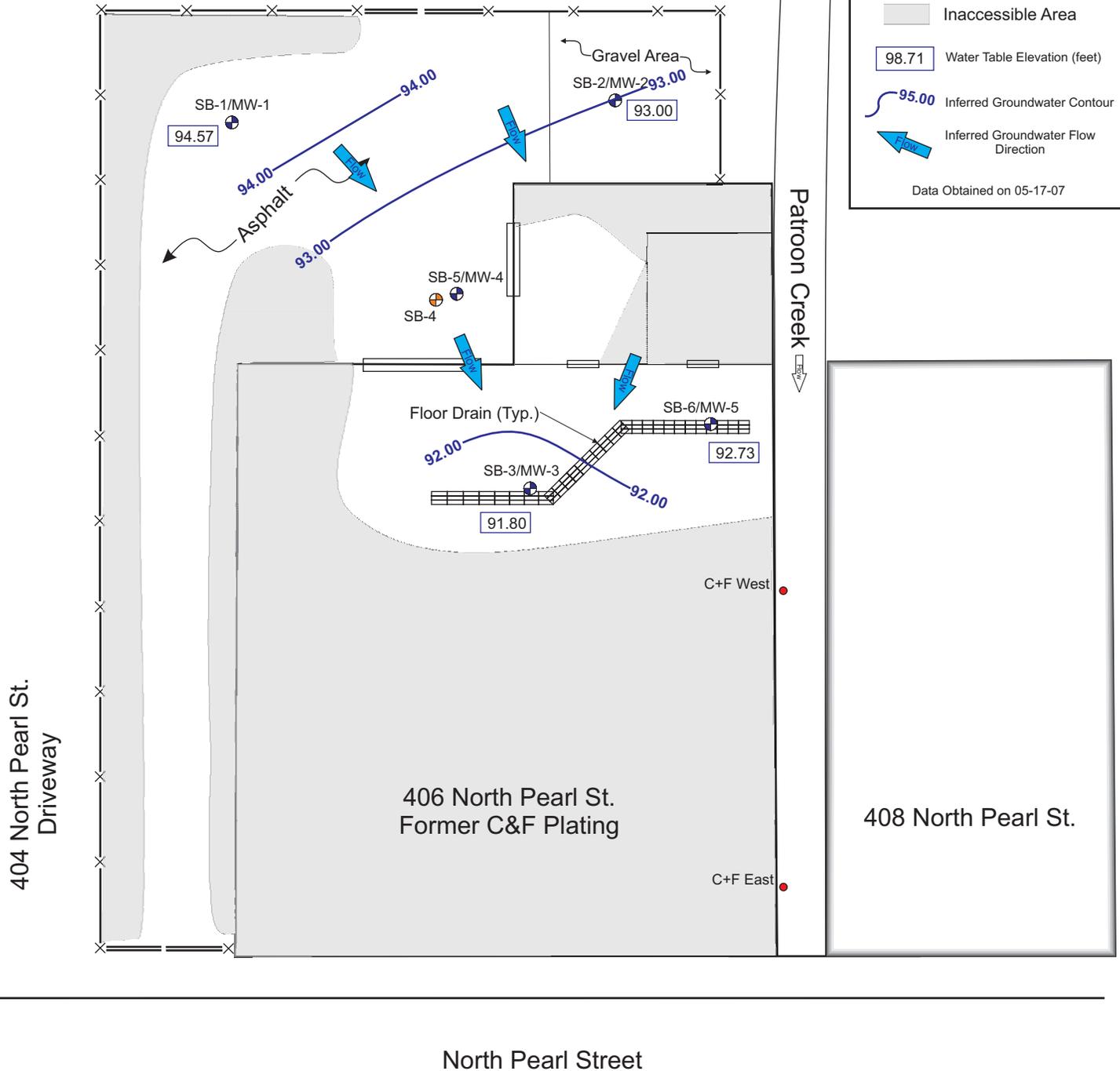


Background

### LEGEND

- C+F East ● Surface Soil Sample
- SB-1 ⊕ Soil Boring
- MW-1 ⊕ Monitoring Well
- Inaccessible Area
- 98.71 Water Table Elevation (feet)
- ~ 95.00 Inferred Groundwater Contour
- Inferred Groundwater Flow Direction

Data Obtained on 05-17-07





Background

### LEGEND

SS-A ● Surface Soil Sample

SB-1 ⊕ Soil Boring

MW-1 ⊕ Monitoring Well

Inaccessible Area

As Arsenic  
Ba Barium  
Cd Cadmium  
Cr Chromium  
Pb Lead  
Hg Mercury  
Ni Nickel

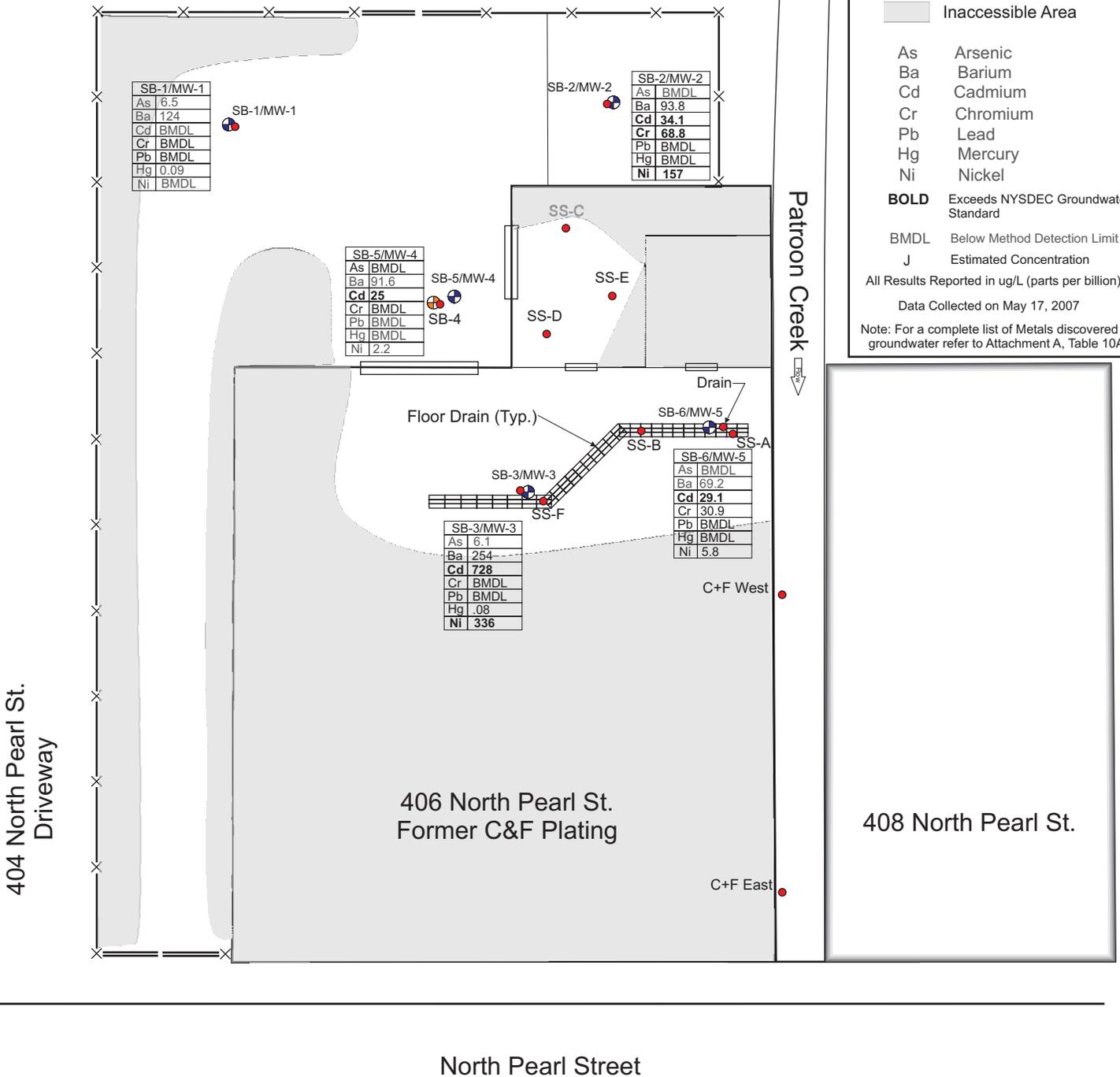
**BOLD** Exceeds NYSDEC Groundwater Standard

BMDL Below Method Detection Limit  
J Estimated Concentration

All Results Reported in ug/L (parts per billion)

Data Collected on May 17, 2007

Note: For a complete list of Metals discovered in groundwater refer to Attachment A, Table 10A



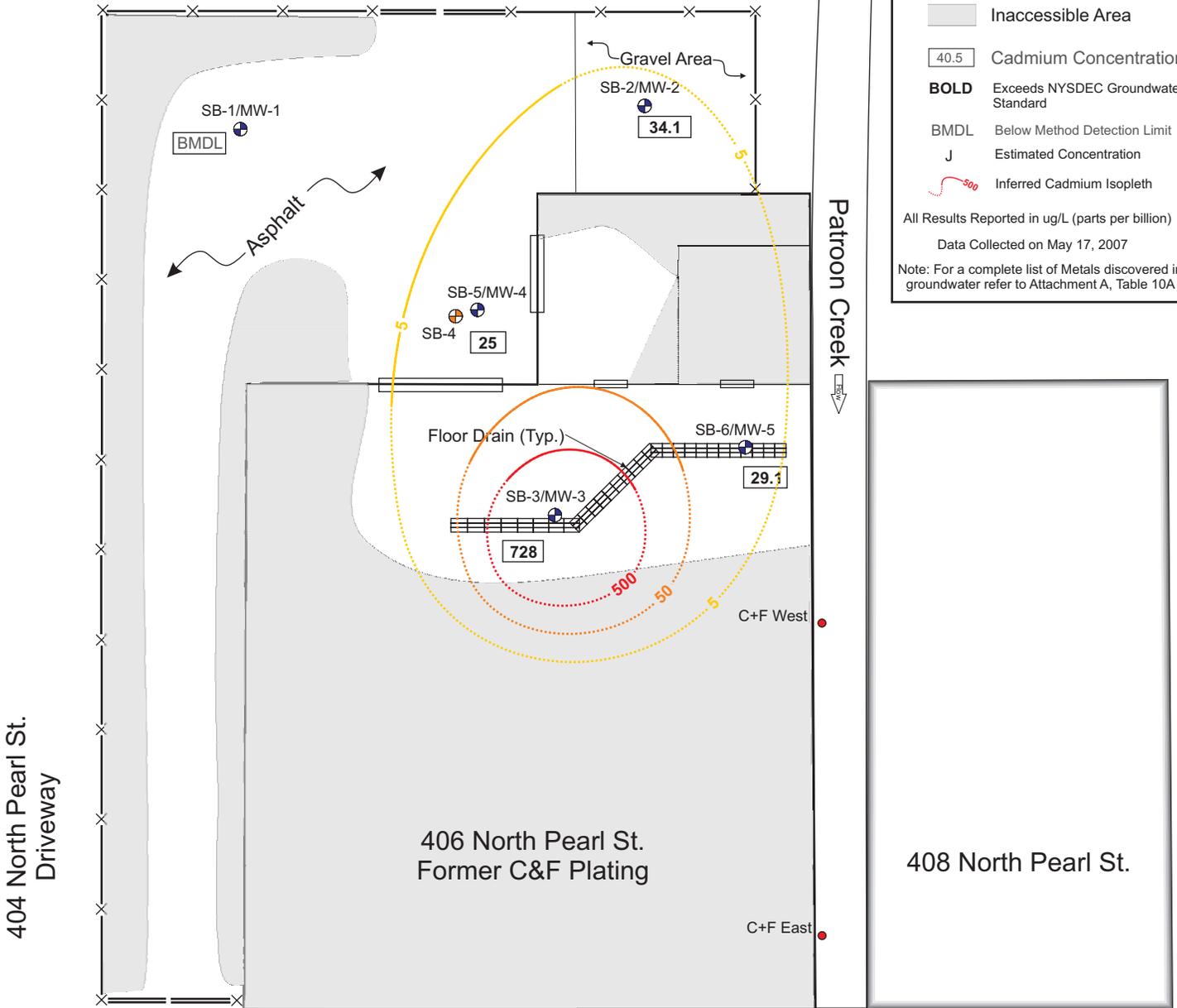


Background

### LEGEND

- C+F East ● Surface Soil Sample
- SB-1 ⊕ Soil Boring
- MW-1 ⊕ Monitoring Well
- Inaccessible Area
- 40.5 Cadmium Concentration
- BOLD** Exceeds NYSDEC Groundwater Standard
- BMDL Below Method Detection Limit
- J Estimated Concentration
- ⋯ 500 Inferred Cadmium Isoleth

All Results Reported in ug/L (parts per billion)  
 Data Collected on May 17, 2007  
 Note: For a complete list of Metals discovered in groundwater refer to Attachment A, Table 10A



North Pearl Street

PRECISION ENVIRONMENTAL SERVICES  
 Lot 28C, Curtis Industrial Park  
 831 Route 67  
 Ballston Spa, New York 12020  
 (518) 885-4399



## C&F Plating

### Cadmium in Groundwater

Location: 406 North Pearl St., Albany, NY

Date: May 2008

Project No.: NYSDEC Spill #02-09561

Scale - NTS

Drawn By: SMP

Figure: 4a

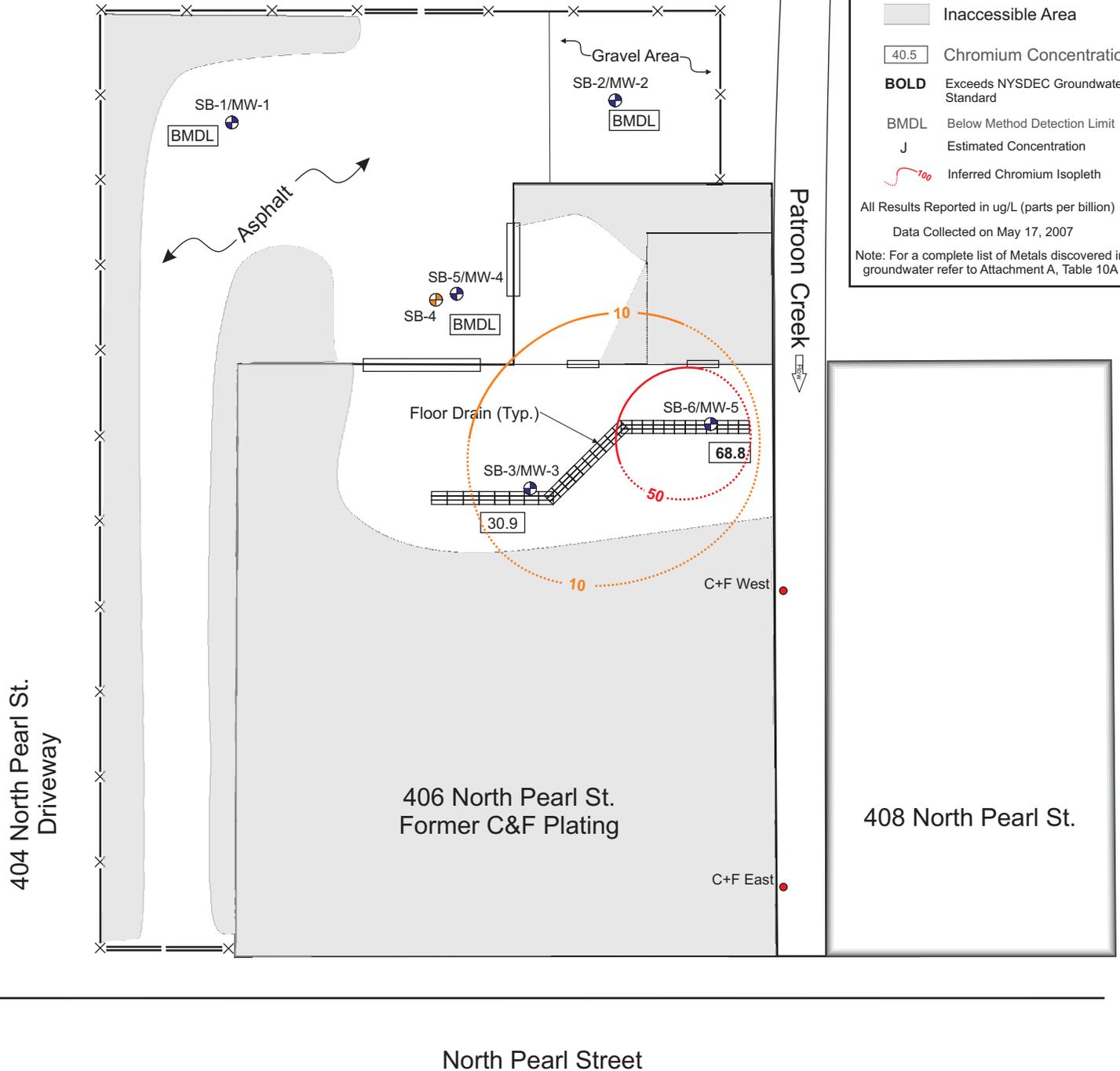


Background

### LEGEND

- C+F East ● Surface Soil Sample
- SB-1 ⊕ Soil Boring
- MW-1 ⊕ Monitoring Well
- Inaccessible Area
- 40.5 Chromium Concentration
- BOLD** Exceeds NYSDEC Groundwater Standard
- BMDL Below Method Detection Limit
- J Estimated Concentration
- ⋯ Inferred Chromium Isoleth

All Results Reported in ug/L (parts per billion)  
 Data Collected on May 17, 2007  
 Note: For a complete list of Metals discovered in groundwater refer to Attachment A, Table 10A



PRECISION ENVIRONMENTAL SERVICES  
 Lot 28C, Curtis Industrial Park  
 831 Route 67  
 Ballston Spa, New York 12020  
 (518) 885-4399



## C&F Plating

### Chromium in Groundwater

|   |                |
|---|----------------|
| Location: 406 North Pearl St., Albany, NY | Date: May 2008 |
| Project No.: NYSDEC Spill #02-09561       | Scale - NTS    |
| Drawn By: SMP                             | Figure: 4b     |

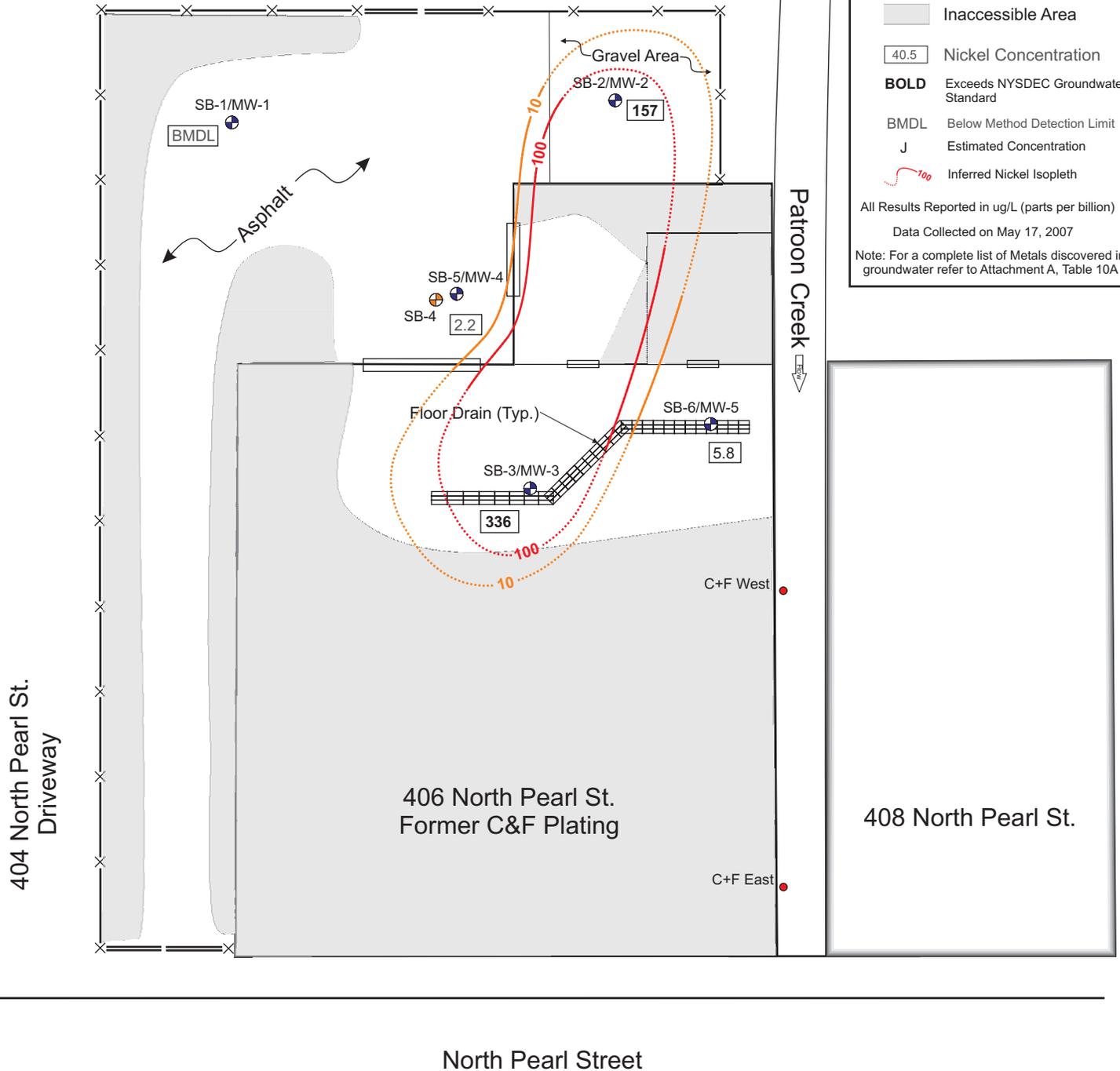


Background

### LEGEND

- C+F East ● Surface Soil Sample
- SB-1 ⊕ Soil Boring
- MW-1 ⊕ Monitoring Well
- Inaccessible Area
- 40.5 Nickel Concentration
- BOLD** Exceeds NYSDEC Groundwater Standard
- BMDL Below Method Detection Limit
- J Estimated Concentration
- ~ 100 Inferred Nickel Isoleth

All Results Reported in ug/L (parts per billion)  
 Data Collected on May 17, 2007  
 Note: For a complete list of Metals discovered in groundwater refer to Attachment A, Table 10A





Background

### LEGEND

SS-A Surface Soil Sample

SB-1 Soil Boring

MW-1 Monitoring Well

Inaccessible Area

As Arsenic  
Ba Barium  
Cd Cadmium  
Cr Chromium  
Pb Lead  
Hg Mercury  
Ni Nickel

**BOLD** Exceeds TAGM 4046 RSCO (Recommended Soil Cleanup Objective)

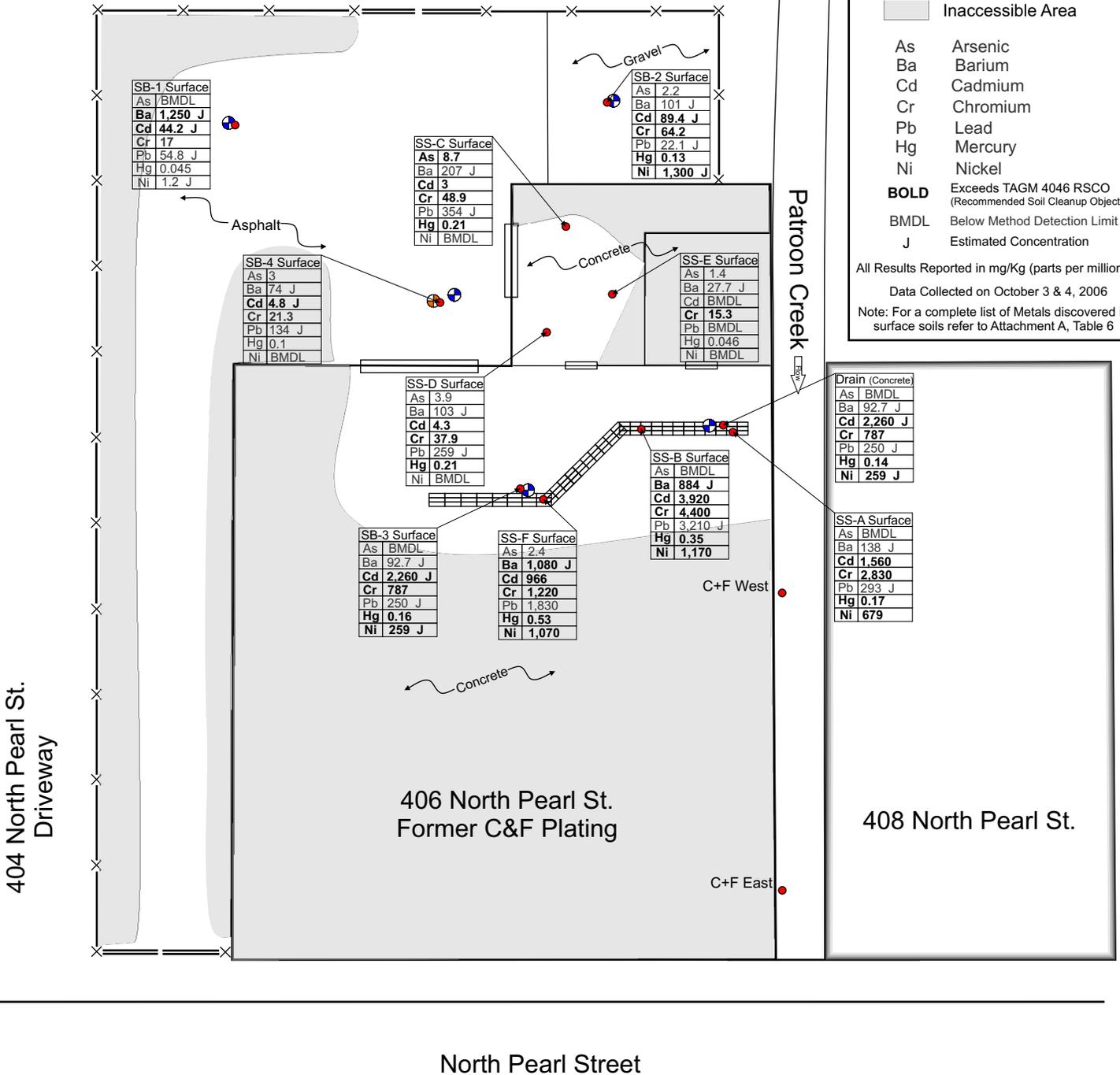
BMDL Below Method Detection Limit

J Estimated Concentration

All Results Reported in mg/Kg (parts per million)

Data Collected on October 3 & 4, 2006

Note: For a complete list of Metals discovered in surface soils refer to Attachment A, Table 6



|                         |                     |
|-------------------------|---------------------|
| <b>Drain (Concrete)</b> | As   BMDL           |
|                         | Ba   92.7 J         |
|                         | <b>Cd   2,260 J</b> |
|                         | Cr   787            |
|                         | Pb   250 J          |
|                         | <b>Hg   0.14</b>    |
|                         | Ni   259 J          |
| <b>SS-A Surface</b>     | As   BMDL           |
|                         | Ba   138 J          |
|                         | <b>Cd   1,560</b>   |
|                         | <b>Cr   2,830</b>   |
|                         | Pb   293 J          |
|                         | <b>Hg   0.17</b>    |
|                         | Ni   679            |

PRECISION ENVIRONMENTAL SERVICES  
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 831 Route 67  
 Ballston Spa, New York 12020  
 (518) 885-4399



**C&F Plating**  
**Metals in Surface Soils**

|   |                |
|---|----------------|
| Location: 406 North Pearl St., Albany, NY | Date: May 2008 |
| Project No.: NYSDEC Spill #02-09561       | Scale - NTS    |
| Drawn By: SMP                             | Figure: 5      |



Background

### LEGEND

SS-A Surface Soil Sample

SB-1 Soil Boring

MW-1 Monitoring Well

Inaccessible Area

As Arsenic  
Ba Barium  
Cd Cadmium  
Cr Chromium  
Pb Lead  
Hg Mercury  
Ni Nickel

**BOLD** Exceeds TAGM 4046 RSCO (Recommended Soil Cleanup Objective)

BMDL Below Method Detection Limit

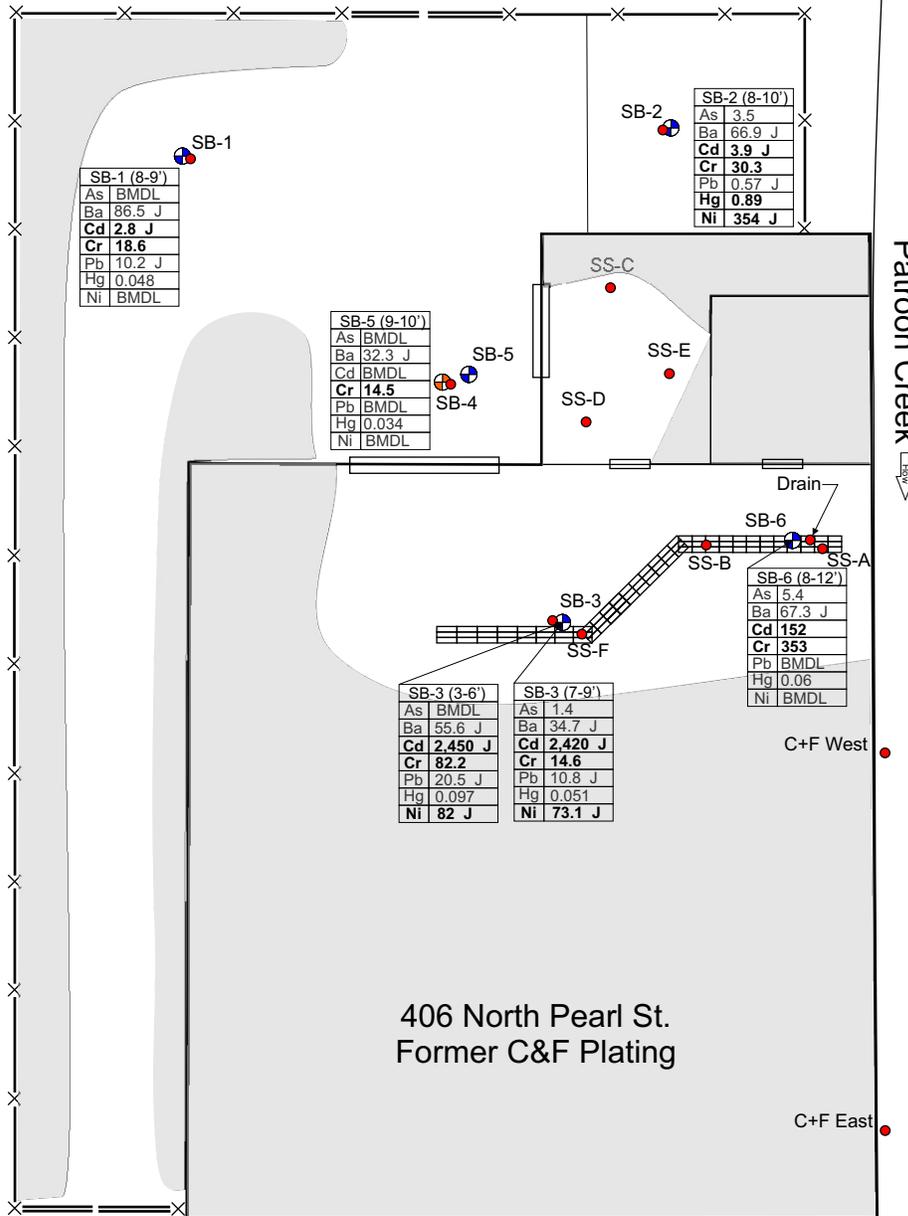
J Estimated Concentration

All Results Reported in mg/Kg (parts per million)

Data Collected on October 3 & 4, 2006

Note: For a complete list of Metals discovered in subsurface soils refer to Attachment A, Table 6

404 North Pearl St.  
Driveway



Patron Creek

406 North Pearl St.  
Former C&F Plating

408 North Pearl St.

North Pearl Street

PRECISION ENVIRONMENTAL SERVICES  
Lot 28C, Curtis Industrial Park  
831 Route 67  
Ballston Spa, New York 12020  
(518) 885-4399



**C&F Plating**  
**Metals in Subsurface Soils**

Location: 406 North Pearl St., Albany, NY

Date: May 2008

Project No.: NYSDEC Spill #02-09561

Scale - NTS

Drawn By: SMP

Figure: 6

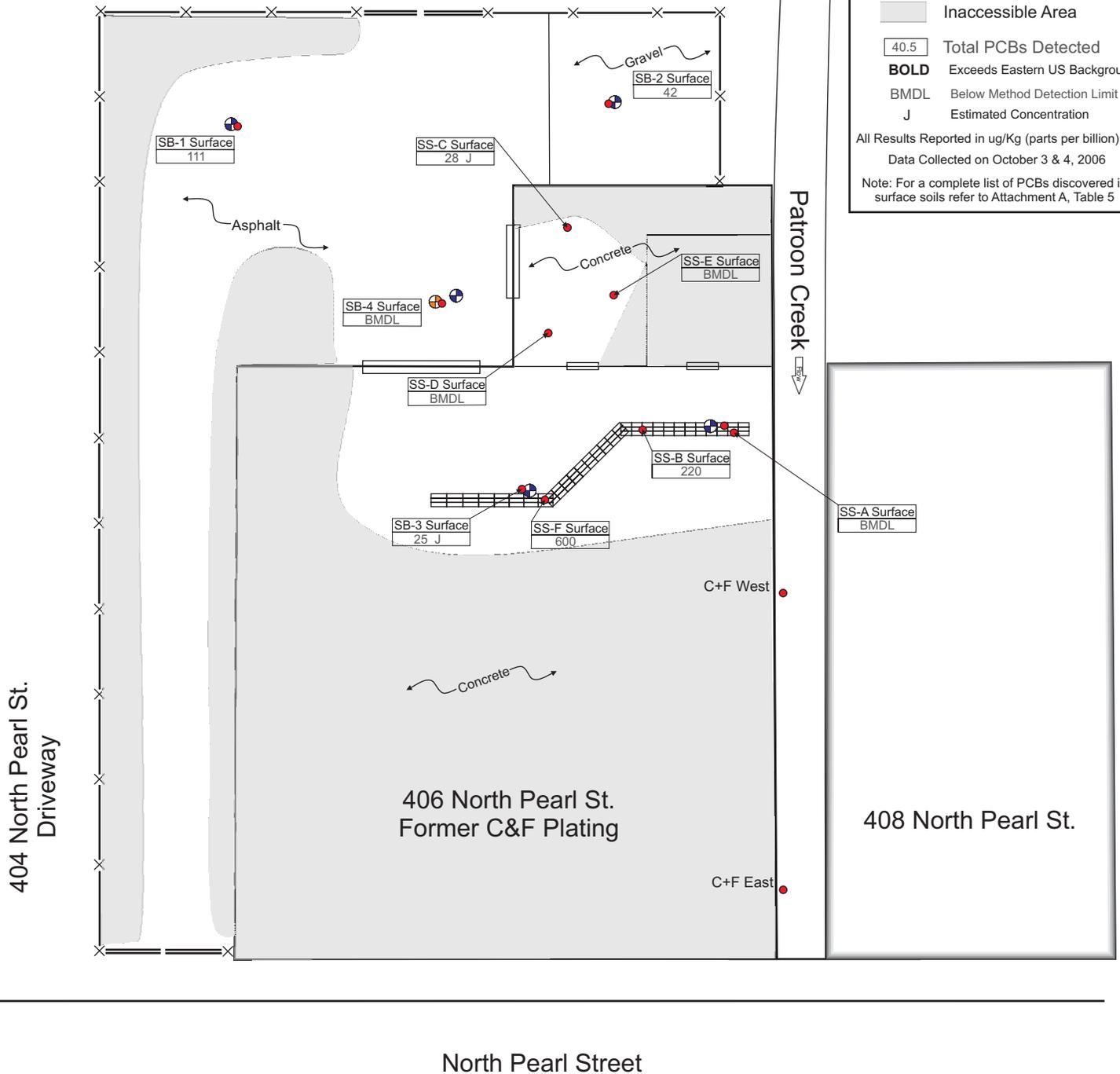


Background

### LEGEND

- SS-A Surface Soil Sample
- SB-1 Soil Boring
- MW-1 Monitoring Well
- Inaccessible Area
- 40.5 Total PCBs Detected
- BOLD** Exceeds Eastern US Background
- BMDL Below Method Detection Limit
- J Estimated Concentration

All Results Reported in ug/Kg (parts per billion)  
 Data Collected on October 3 & 4, 2006  
 Note: For a complete list of PCBs discovered in surface soils refer to Attachment A, Table 5



# LEGEND

SS-A Surface Soil Sample



PRECISION ENVIRONMENTAL SERVICES  
Lot 28C, Curtis Industrial Park  
831 Route 67  
Ballston Spa, New York 12020  
(518) 885-4399



## C&F Plating Sediment Sampling Detail

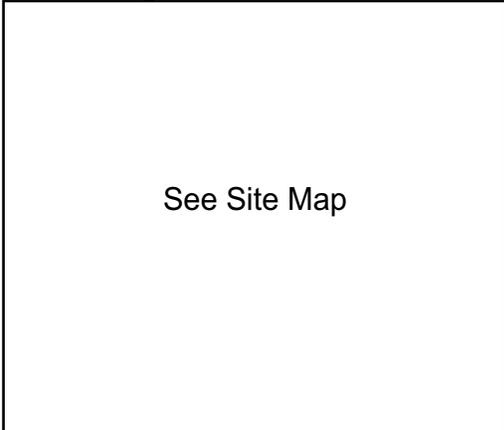
|   |                     |
|---|---------------------|
| Location: 406 North Pearl St., Albany, NY | Date: February 2007 |
| Project No.: NYSDEC Spill #02-09561       | Scale - NTS         |
| Drawn By: Map Courtesy of the USGS        | Figure: 8           |

Former C & F Plating, Albany, NY  
Revised *Limited* Subsurface investigation Report, May 2008  
NYSDEC Spill No.: 02-09561

**Attachment C**  
**BORING LOGS**



Project: Former C&F Plating Client: NYSDEC Region 4  
 Project No: \_\_\_\_\_ Location: 406 North Pearl St., Albany, NY  
 Driller: Mike D. Logged by: Stephen Phelps  
 Drilling Contractor: PES Drilling Method: Direct Push  
 Date Drilled: 10-3-06 Date Developed: N/A  
 TOC Elevation: \_\_\_\_\_ Total Depth of Hole: 15'  
 Boring Diameter: 2.25" Screen Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Slot Size: \_\_\_\_\_ Riser Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Type: \_\_\_\_\_ Sand Pack: \_\_\_\_\_ Bentonite Seal: \_\_\_\_\_  
 Protective Casing: None



| Depth (ft.) | Well Construction | Notes | Sample Type/ # | PID (ppm) | Description / Soil Classification                                      |   |
|-------------|-------------------|-------|----------------|-----------|--|---|
| 0           |                   |       | *              |           |  |   |
| 1           |                   |       | 0-4'           | ND        | ASPHALT to Br & Blk COAL SLAG and SAND, little Cobbles, moist at 3 ft. |   |
| 2           |                   |       |                |           |  |   |
| 3           |                   |       |                |           |  |   |
| 4           |                   |       |                |           |  |   |
| 5           |                   |       |                |           |  | 4-6': Lt Br SILTY CLAY w/ Sand lenses, wet            |
| 6           |                   |       |                | 4-8'      | ND   | 6-7.5': Br SILT, trace Clay, dense, dry               |
| 7           |                   |       | ▽              |           |  | 7.5-8': Br m SAND and C GRAVEL, wet                   |
| 8           |                   |       |                |           |  |   |
| 9           |                   |       |                | *         |  | 8-10': Br, m,c SAND and f Gravel mix, poorly sorted   |
| 10          |                   |       |                | 8-12'     | ND   | 10-11': Gy SILTY CLAY, dense, moist                   |
| 11          |                   |       |                |           |  | 11-12': Dk Br/Blk mottled SILT, trace Peat, wet       |
| 12          |                   |       |                |           |  |   |
| 13          |                   |       |                |           |  | 12-14.5': Dk Br/Blk mottled SILT, trace Peat, wet     |
| 14          |                   |       |                | 12-15'    | ND   | 14.5-15': Dk Gy SILT with little f Gravel, dry, dense |
| 15          |                   |       |                |           |  |   |
| 16          |                   |       |                |           |  |   |
| 17          |                   |       |                |           |  |   |
| 18          |                   |       |                |           |  |   |
| 19          |                   |       |                |           |  |   |
| 20          |                   |       |                |           |  |   |
| 21          |                   |       |                |           |  |   |
| 22          |                   |       |                |           |  |   |
| 23          |                   |       |                |           |  |   |
| 24          |                   |       |                |           |  |   |
| 25          |                   |       |                |           |  |   |
| 26          |                   |       |                |           |  |   |
| 27          |                   |       |                |           |  |   |
| 28          |                   |       |                |           |  |   |
| 29          |                   |       |                |           |  |   |

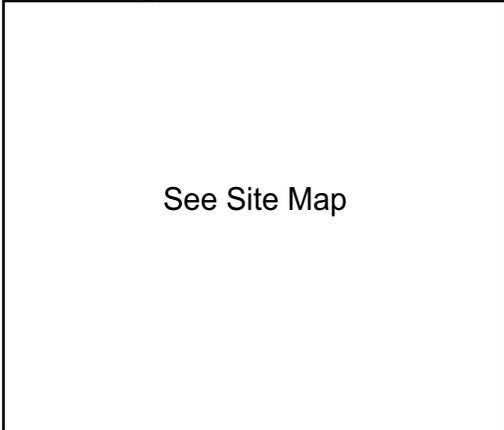
NOTES:

ND = No VOCs Detected By PID analysis

\* = Sample Submitted for Laboratory Analysis



Project: Former C&F Plating Client: NYSDEC Region 4  
 Project No: \_\_\_\_\_ Location: 406 North Pearl St., Albany, NY  
 Driller: Mike D. Logged by: Stephen Phelps  
 Drilling Contractor: PES Drilling Method: Direct Push  
 Date Drilled: 10-3-06 Date Developed: N/A  
 TOC Elevation: \_\_\_\_\_ Total Depth of Hole: 16'  
 Boring Diameter: 2.25" Screen Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Slot Size: \_\_\_\_\_ Riser Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Type: \_\_\_\_\_ Sand Pack: \_\_\_\_\_ Bentonite Seal: \_\_\_\_\_  
 Protective Casing: None



| Depth (ft.) | Well Construction | Notes | Sample Type/ # | PID (ppm) | Description / Soil Classification |  |
|-------------|-------------------|-------|----------------|-----------|-----------------------------------|--|
| 0           |                   |       | *              |           |                                   |  |
| 1           |                   |       | 0-4'           | ND        | ASPHALT to Br & Blk m & c SAND    |  |
| 2           |                   |       |                |           |                                   |  |
| 3           |                   |       |                |           |                                   |  |
| 4           |                   |       |                |           |                                   |  |
| 5           |                   |       |                |           |                                   |  |
| 6           |                   |       |                | 4-8'      | ND                                | 4-7': Br CLAY moist, plastic   |
| 7           |                   |       |                |           |                                   | 7-8': Br SILTY CLAY, moist   |
| 8           |                   |       | ▽              |           |                                   |  |
| 9           |                   |       |                | *         |                                   |  |
| 10          |                   |       |                | 8-12'     | 14                                | Br, m & c SAND and f Gravel mix, little Silty Clay, saturated, slight petro odor |
| 11          |                   |       |                |           |                                   |  |
| 12          |                   |       |                |           |                                   |  |
| 13          |                   |       |                |           |                                   | 12-15': Br m & c SAND, little f Gravel, saturated                                |
| 14          |                   |       |                | 12-16'    | ND                                | 15-16': Dk Gy SILT with f Gravel, dense, dry                                     |
| 15          |                   |       |                |           |                                   |  |
| 16          |                   |       |                |           |                                   |  |
| 17          |                   |       |                |           |                                   |  |
| 18          |                   |       |                |           |                                   |  |
| 19          |                   |       |                |           |                                   |  |
| 20          |                   |       |                |           |                                   |  |
| 21          |                   |       |                |           |                                   |  |
| 22          |                   |       |                |           |                                   |  |
| 23          |                   |       |                |           |                                   |  |
| 24          |                   |       |                |           |                                   |  |
| 25          |                   |       |                |           |                                   |  |
| 26          |                   |       |                |           |                                   |  |
| 27          |                   |       |                |           |                                   |  |
| 28          |                   |       |                |           |                                   |  |
| 29          |                   |       |                |           |                                   |  |

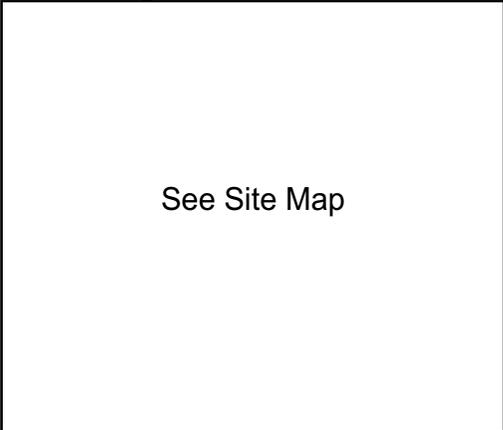
NOTES:

ND = No VOCs Detected By PID analysis

\* = Sample Submitted for Laboratory Analysis



Project: Former C&F Plating Client: NYSDEC Region 4  
 Project No: \_\_\_\_\_ Location: 406 North Pearl St., Albany, NY  
 Driller: Mike D. Logged by: Stephen Phelps  
 Drilling Contractor: PES Drilling Method: Direct Push  
 Date Drilled: 10-3-06 Date Developed: N/A  
 TOC Elevation: \_\_\_\_\_ Total Depth of Hole: 16'  
 Boring Diameter: 2.25" Screen Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Slot Size: \_\_\_\_\_ Riser Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Type: \_\_\_\_\_ Sand Pack: \_\_\_\_\_ Bentonite Seal: \_\_\_\_\_  
 Protective Casing: None



| Depth (ft.) | Well Construction | Notes | Sample Type/ # | PID (ppm) | Description / Soil Classification |   |  |
|-------------|-------------------|-------|----------------|-----------|-----------------------------------|---|--|
| 0           |                   |       | *              |           |                                   |   |  |
| 1           |                   |       |                | 0-4'      | ND                                | 1-3': Concrete to Lt Br f SAND & f GRAVEL mix to Coal Slag & Sand mix |  |
| 2           |                   |       |                |           |                                   | 3-4': Br SILT, little Clay & f Gravel, teal color stain throughout    |  |
| 3           |                   |       |                |           |                                   |   |  |
| 4           |                   |       |                | *         |                                   |   |  |
| 5           |                   |       |                |           | 4-8'                              | ND  | 4-7': Br SILT, little Clay & f Gravel, teal color stain throughout |
| 6           |                   |       |                |           |                                   |   | 7-8': Br SILTY f SAND, teal color stain throughout, wet            |
| 7           |                   |       |                |           |                                   |   |  |
| 8           |                   |       |                |           |                                   |   |  |
| 9           |                   |       |                |           | *                                 |   |  |
| 10          |                   |       |                |           | 8-12'                             | ND  | 8-11.5': Gy/Blk SILTY f SAND and Gravel mix, trace Peat            |
| 11          |                   |       |                |           |                                   |   | 11.5-12': Br SAND & c Gravel mix, saturated                        |
| 12          |                   |       |                |           |                                   |   |  |
| 13          |                   |       |                |           | 12-16'                            | ND  | 12-15': Br SAND & c Gravel mix, saturated                          |
| 14          |                   |       |                |           |                                   |   | 15-16': Gy/Blk m & c SAND, little f Gravel, saturated              |
| 15          |                   |       |                |           |                                   |   | 16': Dk Gy SILT, little f Gravel, dense, dry                       |
| 16          |                   |       |                |           |                                   |   |  |
| 17          |                   |       |                |           |                                   |   |  |
| 18          |                   |       |                |           |                                   |   |  |
| 19          |                   |       |                |           |                                   |   |  |
| 20          |                   |       |                |           |                                   |   |  |
| 21          |                   |       |                |           |                                   |   |  |
| 22          |                   |       |                |           |                                   |   |  |
| 23          |                   |       |                |           |                                   |   |  |
| 24          |                   |       |                |           |                                   |   |  |
| 25          |                   |       |                |           |                                   |   |  |
| 26          |                   |       |                |           |                                   |   |  |
| 27          |                   |       |                |           |                                   |   |  |
| 28          |                   |       |                |           |                                   |   |  |
| 29          |                   |       |                |           |                                   |   |  |

NOTES:

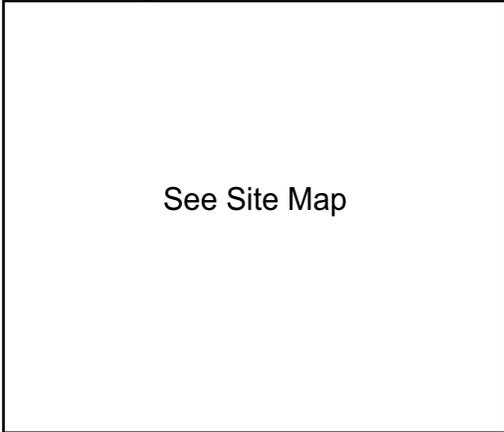
ND = No VOCs Detected By PID analysis

\* = Sample Submitted for Laboratory Analysis



**Well/ Boring No.: SB-4**

Project: Former C&F Plating Client: NYSDEC Region 4  
 Project No: \_\_\_\_\_ Location: 406 North Pearl St., Albany, NY  
 Driller: Mike D. Logged by: Stephen Phelps  
 Drilling Contractor: PES Drilling Method: Direct Push  
 Date Drilled: 10-3-06 Date Developed: N/A  
 TOC Elevation: \_\_\_\_\_ Total Depth of Hole: 8'  
 Boring Diameter: 2.25" Screen Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Slot Size: \_\_\_\_\_ Riser Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Type: \_\_\_\_\_ Sand Pack: \_\_\_\_\_ Bentonite Seal: \_\_\_\_\_  
 Protective Casing: None



| Depth (ft.) | Well Construction | Notes | Sample Type/ # | PID (ppm) | Description / Soil Classification                                    |
|-------------|-------------------|-------|----------------|-----------|--|
| 0           |                   |       | *              |           |  |
| 1           |                   |       |                |           | 1-2': Asphalt to Concrete to br/blk SILT & f & m SAND, poorly sorted |
| 2           |                   |       | 0-4'           | ND        | 2-3': Br SILTY SAND to Br SILT, trace Clay, dense                    |
| 3           |                   |       |                |           | 3-4': Lt Br SILT & f SAND  |
| 4           |                   |       |                |           |  |
| 5           |                   |       |                |           | 4-7': Lt Br SILTY f SAND w/ f Gravel mix                             |
| 6           |                   |       | 4-8'           | ND        | 7-8': Bk/OI Gn SILTY f SAND w/ f Gravel mix, wet at 7.5'             |
| 7           |                   |       |                |           | 8': Bk SILTY f SAND & f Gravel mix, wet                              |
| 8           |                   |       |                |           | 8': Refusal  |
| 9           |                   |       |                |           |  |
| 10          |                   |       |                |           |  |
| 11          |                   |       |                |           |  |
| 12          |                   |       |                |           |  |
| 13          |                   |       |                |           |  |
| 14          |                   |       |                |           |  |
| 15          |                   |       |                |           |  |
| 16          |                   |       |                |           |  |
| 17          |                   |       |                |           |  |
| 18          |                   |       |                |           |  |
| 19          |                   |       |                |           |  |
| 20          |                   |       |                |           |  |
| 21          |                   |       |                |           |  |
| 22          |                   |       |                |           |  |
| 23          |                   |       |                |           |  |
| 24          |                   |       |                |           |  |
| 25          |                   |       |                |           |  |
| 26          |                   |       |                |           |  |
| 27          |                   |       |                |           |  |
| 28          |                   |       |                |           |  |
| 29          |                   |       |                |           |  |

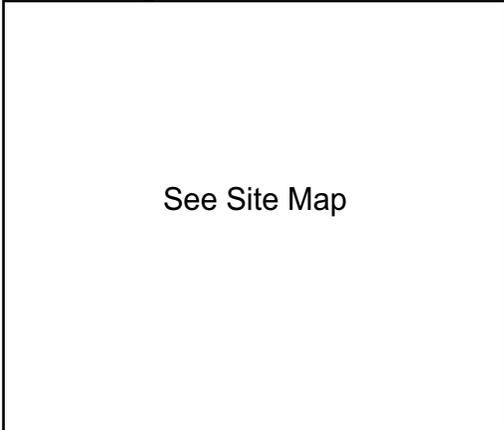
NOTES:

ND = No VOCs Detected By PID analysis

\* = Sample Submitted for Laboratory Analysis



Project: Former C&F Plating Client: NYSDEC Region 4  
 Project No: \_\_\_\_\_ Location: 406 North Pearl St., Albany, NY  
 Driller: Mike D. Logged by: Stephen Phelps  
 Drilling Contractor: PES Drilling Method: Direct Push  
 Date Drilled: 10-3-06 Date Developed: N/A  
 TOC Elevation: \_\_\_\_\_ Total Depth of Hole: 10'  
 Boring Diameter: 2.25" Screen Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Slot Size: \_\_\_\_\_ Riser Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Type: \_\_\_\_\_ Sand Pack: \_\_\_\_\_ Bentonite Seal: \_\_\_\_\_  
 Protective Casing: None



| Depth (ft.) | Well Construction | Notes | Sample Type/ # | PID (ppm)  | Description / Soil Classification                                    |   |
|-------------|-------------------|-------|----------------|------------|--|---|
| 0           |                   |       |                |            |  |   |
| 1           |                   |       |                |            | 1-2': Asphalt to Concrete to br/blk SILT & f & m SAND, poorly sorted |   |
| 2           |                   |       | 0-4'           | ND         | 2-3': Br SILTY SAND to Br SILT, trace Clay, dense                    |   |
| 3           |                   |       |                |            | 3-4': Lt Br SILT & f SAND  |   |
| 4           |                   |       |                |            |  |   |
| 5           |                   |       |                |            |  |   |
| 6           |                   |       |                | 4-8'       | ND   | 4-7': Lt Br SILTY f SAND w/ f Gravel mix                                  |
| 7           |                   |       |                |            |  | 7-8': BRICK to dk br/blk f SAND w/ f Gravel                               |
| 8           |                   |       | ▽              |            |  |   |
| 9           |                   |       |                | 8-10'<br>* | ND   | 8-10': Dk Br/Blk SILTY f SAND & f Gravel mix, trace Peat, saturated at 9' |
| 10          |                   |       |                |            | 10': Rock Refusal, saturated   |   |
| 11          |                   |       |                |            |  |   |
| 12          |                   |       |                |            |  |   |
| 13          |                   |       |                |            |  |   |
| 14          |                   |       |                |            |  |   |
| 15          |                   |       |                |            |  |   |
| 16          |                   |       |                |            |  |   |
| 17          |                   |       |                |            |  |   |
| 18          |                   |       |                |            |  |   |
| 19          |                   |       |                |            |  |   |
| 20          |                   |       |                |            |  |   |
| 21          |                   |       |                |            |  |   |
| 22          |                   |       |                |            |  |   |
| 23          |                   |       |                |            |  |   |
| 24          |                   |       |                |            |  |   |
| 25          |                   |       |                |            |  |   |
| 26          |                   |       |                |            |  |   |
| 27          |                   |       |                |            |  |   |
| 28          |                   |       |                |            |  |   |
| 29          |                   |       |                |            |  |   |

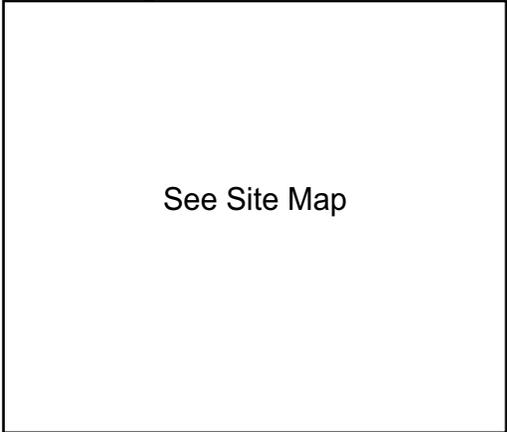
NOTES:

ND = No VOCs Detected By PID analysis

\* = Sample Submitted for Laboratory Analysis



Project: Former C&F Plating Client: NYSDEC Region 4  
 Project No: \_\_\_\_\_ Location: 406 North Pearl St., Albany, NY  
 Driller: Mike D. Logged by: Stephen Phelps  
 Drilling Contractor: PES Drilling Method: Direct Push  
 Date Drilled: 10-3-06 Date Developed: N/A  
 TOC Elevation: \_\_\_\_\_ Total Depth of Hole: 14'  
 Boring Diameter: 2.25" Screen Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Slot Size: \_\_\_\_\_ Riser Diameter: \_\_\_\_\_ Length: \_\_\_\_\_  
 Type: \_\_\_\_\_ Sand Pack: \_\_\_\_\_ Bentonite Seal: \_\_\_\_\_  
 Protective Casing: None



| Depth (ft.) | Well Construction | Notes | Sample Type/ # | PID (ppm) | Description / Soil Classification |   |
|-------------|-------------------|-------|----------------|-----------|-----------------------------------|---|
| 0           |                   |       |                |           |                                   |   |
| 1           |                   |       |                |           |                                   |   |
| 2           |                   |       |                | 0-4'      | ND                                | No Recovery   |
| 3           |                   |       |                |           |                                   |   |
| 4           |                   |       |                |           |                                   |   |
| 5           |                   |       |                |           |                                   | 4-5': Lt Br CLAY, moist , plastic   |
| 6           |                   |       |                | 4-8'      | ND                                | 5-8': Br, Gy, Blk, SILT, SAND & GRAVEL mix, poorly sorted, teal color stain throughout, saturated at 7.5' |
| 7           |                   |       | ▽              |           |                                   |   |
| 8           |                   |       |                |           |                                   |   |
| 9           |                   |       |                | *         |                                   |   |
| 10          |                   |       |                | 8-12'     | 153                               | Gy/Blk f & m SAND w/ f Gravel, saturated, stain and petro odor evident                                    |
| 11          |                   |       |                |           |                                   |   |
| 12          |                   |       |                |           |                                   |   |
| 13          |                   |       |                | 12-14'    | ND                                | Br SAND & c Gravel mix, saturated   |
| 14          |                   |       |                |           |                                   |   |
| 15          |                   |       |                |           |                                   |   |
| 16          |                   |       |                |           |                                   |   |
| 17          |                   |       |                |           |                                   |   |
| 18          |                   |       |                |           |                                   |   |
| 19          |                   |       |                |           |                                   |   |
| 20          |                   |       |                |           |                                   |   |
| 21          |                   |       |                |           |                                   |   |
| 22          |                   |       |                |           |                                   |   |
| 23          |                   |       |                |           |                                   |   |
| 24          |                   |       |                |           |                                   |   |
| 25          |                   |       |                |           |                                   |   |
| 26          |                   |       |                |           |                                   |   |
| 27          |                   |       |                |           |                                   |   |
| 28          |                   |       |                |           |                                   |   |
| 29          |                   |       |                |           |                                   |   |

NOTES:

ND = No VOCs Detected By PID analysis

\* = Sample Submitted for Laboratory Analysis

Former C & F Plating, Albany, NY  
Revised *Limited* Subsurface investigation Report, May 2008  
NYSDEC Spill No.: 02-09561

**Attachment D**

**DATA USABILITY SUMMARY REPORT**