

CRA

SITE EVALUATION REPORT

**Former Buffalo Forge Plant No. 1
Howden Buffalo, Inc.**

Prepared By:

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**APRIL 2000
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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has completed a preliminary environmental evaluation of the Howden Buffalo, Inc. (former Buffalo Forge) facility located at 490 Broadway in Buffalo, New York ("Site"). The evaluation was performed at the request of Mr. Jerrold Brown of Hodgson, Russ, Andrews, Woods & Goodyear.

Prior to beginning the field activities associated with the evaluation, a Scope of Work was developed in cooperation with Mr. Dennis Sutton of the City of Buffalo Department of Community Development. Mr. Sutton also observed the performance of select field activities.

This report presents summaries of the Site background data obtained for this evaluation, field activities performed, field observations, analytical results, and comparisons of the analytical results to New York standards. The report is organized as follows:

- Section 1 Introduction: The introduction presents an overview of the development of the project;
- Section 2 Background Information: The background information collected and used in the planning of the project is presented in Section 2;
- Section 3 Summary of Field Activities: A summary of the field activities performed is presented in Section 3;
- Section 4 Observations and Findings: The observations and analytical data collected from this investigation are presented in Section 4; and
- Section 5 Summary and Conclusions: A summary of the evaluation is presented in Section 5.

2.0 BACKGROUND INFORMATION

The background information collected prior to the commencement of the field activities consisted primarily of Site maps and interviews with former Howden Fan employees to gain knowledge of the locations of Site features and historic activities. This information was used in the planning of sample locations and analytical parameters.

Aerial photographs of the area in which the Site is located dated 1959, 1966, 1978, 1983, and 1995 were obtained and reviewed to determine the locations and development sequence of the on-Site structures. Copies of these photographs are presented in Appendix A.

Sanborn fire insurance maps for the period of 1889 through 1986 were also obtained and reviewed. The Sanborn fire map dated 1986 was used as the base for the preparation of the Site plan shown on Figure 2.1. Reduced copies of the Sanborn maps are contained in Appendix B.

The Scope of Work included an inquiry into records of the New York State Department of Environmental Conservation (NYSDEC) to determine the locations and status of underground storage tanks at the Site. However, previous work performed by others indicated that records for this Site were not available. During a Site walk-through with an employee of Howden Buffalo who had also worked at Buffalo Forge, the locations of three of the four reported underground tanks were identified.

Based on the above, the following areas of potential environmental concern were identified and selected for further investigation:

- i) Underground Storage Tanks (UST);
- ii) Aboveground Storage Tanks (AST);
- iii) Machine Pits;
- iv) Assembly Area and Machine Shop Floor;
- v) Lubricant Storage Area;
- vi) Paint Storage Area;
- vii) Press Pit;
- viii) Paint Booth Grate(s);
- ix) Hazardous Waste Storage Area;
- x) Capacitor Room; and

xi) Interior Manholes.

The City requested that analyses of samples of water from the basement of the manufacturing building and of soil in the Mortimer Street Parking Lots also be performed.

3.0 SUMMARY OF FIELD ACTIVITIES

The field activities were performed between February 7 and 10, 2000.

3.1 SAMPLE COLLECTION AND ANALYSES

Both soil and water samples were collected and analyzed to obtain data for use in the Site evaluation. The Scope of Work also called for the collection of sediment samples from the basement of the manufacturing building. The basement is currently filled with water; therefore, access for sediment sampling was not available. It was agreed with Mr. Sutton of the City that this activity would be delayed until after the analytical data from the basement water samples were received and reviewed.

The following subsections present brief overviews of the soil and water sample collection procedures and sample analyses.

3.1.1 SOIL

Soil borings were advanced using a stainless steel sampling spoon, 2 inches in diameter and 42 inches long. The sampling spoon was lined with acetate and was driven using a hydraulic hammer. Upon completion, each boring was backfilled with the soil cuttings and bentonite clay. Where needed, concrete or asphalt was patched at the surface.

Following collection, the acetate liner containing the soil sample was opened and the soil within was logged and screened for organic vapors using a photoionization detector (PID). Thirty-six (36) soil borings were advanced in the areas of potential environmental concern and analytical soil samples were collected from 15 of these borings for subsequent analyses. The locations of all boreholes and sample locations are presented on Figure 1.

Samples were selected for analyses based upon physical observations (i.e., color, odor, etc.) and organic vapor readings. Stratigraphic logs for the boreholes are contained in Appendix C. The soil descriptions and organic vapor readings are shown on the stratigraphic logs. A summary of the samples collected and analyses performed is presented in Table 3.1.

Soil samples selected for laboratory analyses were placed into labeled laboratory-supplied glass jars and immediately placed on ice in a cooler. Samples were

shipped to the analytical laboratory via overnight courier using proper Chain of Custody procedures.

Field conditions necessitated the modification of the following sample collection locations:

- i) it was not possible to penetrate the bottoms of the machine pits or Paint Booth Grate. Therefore, boreholes at these locations were advanced immediately adjacent to the pit or grate; and
- ii) the area of the UST in the basement along the Spring Street side of the facility could not be accessed. Consideration was given to installing boreholes outside the building along Spring Street but, because the exact location of the tank was unknown, such borings could not be properly located.

3.1.2 WATER

The basement of the manufacturing building is currently filled with water of unknown origin. During the Site walk-through, CRA was informed that the basement was divided into three separate areas; therefore, samples of water were collected from each of these areas.

The water samples were collected from open stairwells in each section of the basement using disposable bailers. Water from the bailer was transferred directly to labeled laboratory-supplied sample containers and immediately placed on ice in a cooler. Samples were shipped to the analytical laboratory via overnight courier using appropriate Chain of Custody procedures.

A sample collection and analysis summary for the water samples is presented in Table 3.2.

4.0 OBSERVATIONS AND FINDINGS

The following subsections discuss the results of the field and analytical activities for each of the areas which were identified as potential environmental concerns. Tables 4.1 through 4.3 present summaries of the compounds detected in soil and water samples. The concentrations of compounds detected in the soil samples are compared to New York State (NYS) standards in Tables 4.1 and 4.2. The standards used for soils under the manufacturing building and in the parking lots are the "Recommended Soil Cleanup Objectives" and "Eastern USA Background" presented in the Technical and Administrative Guidance Memorandum, "Determination of Soil Cleanup Objectives and Cleanup Levels" dated April 1995 (TAGM 4046). The TAGM standards for some metals in soil are the Site background concentrations. The scope of this project did not include a determination of Site-specific background concentrations of metals in soil; therefore, the review of the concentrations of the metals is relative to both the Recommended Cleanup Objective and Eastern USA Background Concentrations presented in TAGM 4046.

For soils associated with the aboveground gasoline storage tank, the standards are the "Guidance Values for Gasoline Contaminated Soil" of the NYSDEC Spill Technology and Remediation Series (STARS) Memo #1. Since there was only one sample analyzed and only one analyte detected in that sample, neither the data or standards are tabulated separately. The results are described in subsection 4.3 and are included in the analytical data validation report contained in Appendix D.

4.1 GENERAL

Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), Aroclor 1254, and metals were detected in various soil samples submitted for analyses; however, exceedances of the standards occurred for only SVOC compounds and metals. The SVOC compounds which were detected at concentrations which exceeded their respective standards (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene) are all polynuclear aromatic hydrocarbons (PAHs). Due to the historic use of the property and presence of mixed fill, the presence of PAHs in soils was expected.

The concentrations of zinc detected in all but two of the analytical samples (surface soil adjacent to the Press Pit and soil adjacent to the Paint Booth Grate) exceeded both the TAGM Recommended Cleanup Objective and range of typical background concentrations. The concentrations of zinc detected in seven of the samples which

exhibited exceedances were less than 100 milligrams per kilogram (mg/kg) (versus the typical background concentration ranging from 9 to 50 mg/kg). It is believed that these concentrations are representative of Site background. Therefore, zinc in these samples will not be discussed in detail in the descriptions of the conditions in the individual areas of potential concern presented below.

Calcium and magnesium were also detected at concentrations which exceeded both the TAGM Recommended Cleanup Objective and range of typical background concentrations in the majority of samples. Calcium and magnesium are innocuous compounds with no associated risk and, therefore, will not be discussed further. The other metals which were detected at concentrations which exceeded both the standards were mercury, arsenic, and nickel. The exceedances for these metals are discussed below.

4.2 UNDERGROUND STORAGE TANKS

Earlier Site-related reports identified four USTs; however, the location of only one tank, a 20,000 gallon tank in the Broadway Yard, was shown in those reports. During the Site walk-through, the locations of two other USTs were identified: a second UST in the Broadway Yard (9,000 gallon capacity) and a UST in the basement along the Spring Street side of the facility.

4.2.1 20,000 GALLON UST

Number 2 fuel oil was stored in a 20,000 gallon UST located along the north side of the Broadway Yard. Four borings, SB-15 through SB-18, were installed around the area of this tank. Discrete samples from borings SB-15 and SB-18 located on the north and south sides of the tank area, respectively, were selected for laboratory analyses.

The compounds detected in the samples from the area of the 20,000 gallon UST were limited to SVOCs and metals. The concentrations of four of the SVOCs detected, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene, exceed the NYSDEC soil cleanup objectives. No metals other than calcium, magnesium, and zinc were detected at concentrations which exceeded both the TAGM Recommended Cleanup Objective and range of typical background concentrations in the samples analyzed from the area of the 20,000 gallon UST.

4.2.2 9,000 GALLON UST

Number 2 fuel oil was stored in a 9,000 gallon UST located in the northeast corner of the Broadway Yard. Three borings, SB-19 through SB-21, were installed around the area of this tank. There was no visual or olfactory evidence of chemical presence in any of the soil samples nor were organic vapors detected. Therefore, no analytical samples were submitted from the area of the 9,000 gallon UST.

4.3 ABOVEGROUND GASOLINE STORAGE TANK

An AST was formerly located in the northeast corner of the Sycamore Yard. The AST was used for the storage of gasoline; therefore, samples from this area were analyzed for the compounds listed in Table 1 ("Guidance Values for Gasoline Contaminated Soil") of the STARS Memo.

Three borings, SB-22 through SB-24, were installed in the area of the AST located in the northeast corner of the Sycamore Yard. Stained soils were encountered at approximately 4.7 feet below ground surface (BGS) in each of the borings. A discrete sample of the stained soils from boring SB-22, located on the west side of the AST, was selected for laboratory analysis.

The only compound detected in the sample from the area of the AST was toluene at an estimated concentration of 1 micrograms per kilogram ($\mu\text{g}/\text{kg}$). This concentration is well below the STARS human health guidance value of 20,000,000 $\mu\text{g}/\text{kg}$.

4.4 MACHINE PITS

Machine pits are located throughout the Pipe Shop, Fan Shop, Sheet Metal Area, and Machine Shop/Assembly Area. Three borings, SB-11 through SB-13, were advanced immediately adjacent to three separate machine pits. Borings SB-11 and SB-12 were advanced in Department 271 and SB-13 was advanced in Department 220. (The Department locations are shown on Figure 1.) There was no visual or olfactory evidence of chemical presence in the soil samples from SB-11 or SB-12 nor were organic vapors detected. Therefore, no analytical samples were submitted from these borings. At SB-13 an organic vapor reading of 3 to 4 parts per million (ppm) was reported in the sample collected from a depth of approximately 6 feet BGS; therefore, a discrete sample from this depth of boring SB-13 was selected for laboratory analysis.

The compounds detected in the sample from the machine pit included xylenes, fluoranthene, phenanthrene, pyrene, and Aroclor 1254. None of the concentrations detected exceeded the TAGM standards.

No metals other than calcium, magnesium, and zinc were detected at concentrations which exceeded both the TAGM Recommended Cleanup Objective and range of typical background concentrations in the sample from SB-13.

4.5 ASSEMBLY AREA AND MACHINE SHOP FLOOR

The Machine Shop and Assembly Area of the facility encompasses an area of approximately 40,000 square feet. The floor of the Assembly Area and Machine Shop is constructed primarily of wood blocks underlain by sand and clay.

Three borings (SB-3 through SB-5) were installed in the Assembly Area/Machine Shop to evaluate the soils beneath the wood block floor. The borings were installed where the wooden blocks had heaved. There was olfactory evidence of chemical presence and organic vapors were detected at SB-4; therefore, a sample from this location was submitted for analysis. Samples from SB-3 and SB-5 were submitted to confirm that no chemical compounds were present since no visual, olfactory, or PID evidence of chemical presence was noted in either of these borings.

The compounds detected in the samples from beneath the Assembly Area and Machine Shop floor were ethylbenzene, toluene, xylenes, several SVOC compounds, and Aroclor 1254. Exceedances of the TAGM standards were limited to benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenzofuran in SB-3.

In addition to zinc and magnesium which were detected at concentrations which exceeded the TAGM Recommended Cleanup Objective and range of typical background concentrations in all three analytical samples from beneath the Assembly Area and Machine Shop floor and calcium which was detected at a concentration which exceeded these standards in one of the samples, nickel was detected in one sample at a concentration (27 mg/kg) which is generally consistent with the upper limit of typical background concentration (25 mg/kg).

4.6 PAINST STORAGE ROOM

A Paint Storage Room was located along the east wall of the facility approximately midway along the north-south wall. A floor drain reportedly connected to the City sewer is located in the center of the room. One boring, SB-2, was installed next to the floor drain to determine whether spills which may have occurred in the room had impacted the underlying materials.

No organic chemical compounds were detected in the sample from beneath the Paint Storage Room. In addition to calcium, magnesium, and zinc, mercury was detected in the analytical sample from beneath the Paint Storage Room at a concentration (0.24 mg/kg) which is generally consistent with the upper limit of typical background concentration (0.2 mg/kg).

4.7 LUBRICANT STORAGE AREA

The Lubricant Storage Area was located along the east wall of the facility in the former steel storage area. The area has a wood block floor underlain by concrete. One boring, SB-10, was advanced in the Lubricant Storage Area. There was no visual or olfactory evidence of chemical presence in the soil samples nor were organic vapors detected at boring SB-10. Therefore, no analytical samples were submitted from the Lubricant Storage Area.

4.8 PRESS PIT

A Press Pit approximately 5 feet deep is located in the foundry area of the facility. The pit is constructed of poured concrete and is currently filled with debris and liquid. Four borings, SB-6 through SB-9, were installed on the north and south sides of the Press Pit. The bottom of the Press Pit is believed to be at or slightly below the top of the native clay. The borings advanced adjacent to the Press Pit extended past the estimated elevation of the bottom of the pit and no evidence of chemical presence was observed at that depth in any boring. The sample collected for analysis consisted of stained soil present at 0.5 to 1.5 feet BGS in SB-9. These soils may have been impacted by materials which were spilled in the area rather than by liquids leaking from the Press Pit.

The compounds detected in the soil sample from the Press Pit area included carbon disulfide and several SVOCs. The concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene,

dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene in this sample exceeded their respective TAGM standards.

No metals were detected at concentrations which exceeded both the TAGM Recommended Cleanup Objective and range of Background Concentrations in the analytical sample collected near the Press Pit.

4.9 PAINT BOOTH GRATE

Paint booths were located in the Fan Shop approximately in the center of the facility. Lined pits covered with grates ("Paint Booth Grates"), were associated with these booths. One boring, SB-14, was advanced immediately adjacent to the Paint Booth Grate. There was no visual or olfactory evidence of chemical presence in the soil nor were organic vapors detected at boring SB-14. A discrete sample from boring SB-14 was selected for laboratory analysis to confirm the absence of chemicals at this location.

No organic chemical compounds were detected in the soil sample collected adjacent to the Paint Booth Grate. Calcium and magnesium were the only metals detected at concentrations which exceeded both the TAGM Recommended Cleanup Objective and range of Background Concentrations in the analytical sample collected near the Paint Booth Grate.

4.10 HAZARDOUS WASTE STORAGE AREA

A Hazardous Waste Storage Area was reportedly located at the south end of the Sycamore Yard. The storage area consisted of a curbed concrete pad with a covered, three-sided shed. Three borings, SB-25 through SB-27, were advanced in the vicinity of the Hazardous Waste Storage Area located in the Sycamore Yard. There was no visual or olfactory evidence of chemical presence in the soil nor were organic vapors detected in these borings. A discrete sample from boring SB-27 was selected for laboratory analysis to confirm the absence of chemical presence in this area.

The compounds detected in the sample from the Hazardous Waste Storage Area were limited to SVOCs. Exceedances of the TAGM standards were detected for only three compounds, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene. The concentrations of benzo(a)anthracene, 250 µg/kg, and benzo(b)fluoranthene, 230 µg/kg, were estimated and were generally consistent with the TAGM standard of 224 µg/kg for each compound.

In addition to calcium, magnesium, and zinc, mercury, was detected in the sample from the Hazardous Waste Storage Area at a concentration (1.3 mg/kg) which exceeded both the TAGM Recommended Cleanup Objective and range of typical background concentrations.

4.11 CAPACITOR ROOM

A polychlorinated biphenyls (PCB) capacitor was located in a room in the southeast corner of the facility. The capacitor has been removed from the facility; however, oil staining is visible on the floor of the room. One boring, SB-1, was installed within a stained area in the Capacitor Room. There was no visual or olfactory evidence of chemical presence in the soil nor were organic vapors detected at boring SB-1. A discrete sample from boring SB-1 was submitted for laboratory analysis to determine whether PCBs were present.

The soil sample collected from the Capacitor Room was analyzed for PCBs only. No PCBs were detected in this sample.

4.12 BASEMENT

As stated in the Scope of Work, analytical data were collected from the basement water for use in future disposal. The compounds detected in the basement water and their concentrations are presented in Table 4.2. These data are not considered to be representative of in situ groundwater quality since they may have been influenced by residues in the basement.

The Buffalo Sewer Authority was contacted and an inquiry was made as to pretreatment standards for discharge of water to the combined sewer. CRA was informed by the representative of the Buffalo Sewer Authority that they do not have pretreatment standards and that acceptance of water is made on a case-by-case basis.

4.13 INTERIOR MANHOLES

Three manholes were located along the craneway in the center of the manufacturing building. Each of these manholes was inspected to determine whether there was

evidence of chemical presence such as a sheen on standing water. All manholes were found to be in good condition and no evidence of chemical presence was observed.

4.14 MORTIMER STREET PARKING LOTS

Employee parking lots were located across the street from the facility along Mortimer Street. Nine borings, SB-28 through SB-36, were installed in these parking lots. The locations of the borings were selected with the concurrence of Mr. Sutton of the City. Soil samples were submitted for analysis from two of the parking lot borings: SB-29 where 2 ppm organic vapors were detected; and SB-30 where stained soils were observed.

The compounds detected in the soil samples from the parking lots included chlorobenzene, toluene, and SVOCs. The only exceedances of the TAGM standards were for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and dibenz(a,h)anthracene in SB-30.

In addition to zinc which was detected at concentrations which exceeded the TAGM Recommended Cleanup Objective and range of Background Concentrations in both of the analytical samples collected from the Mortimer Street Parking Lots and magnesium which was detected at a concentration which exceeded these standards in one of the samples, mercury and arsenic were detected at concentrations (0.22 mg/kg and 18.0 mg/kg, respectively) which slightly exceeded the upper ranges of background, 0.2 mg/kg for mercury and 12 mg/kg for arsenic.

5.0 SUMMARY AND CONCLUSIONS

The areas of potential concern for environmental impact from historic Site operations included:

- i) Underground Storage Tanks;
- ii) Aboveground Storage Tanks;
- iii) Machine Pits;
- iv) Assembly Area and Machine Shop Floor;
- v) Lubricant Storage Area;
- vi) Paint Storage Area;
- vii) Press Pit;
- viii) Paint Booth Grate(s);
- ix) Hazardous Waste Storage Area;
- x) Capacitor Room; and
- xi) Interior Manholes.

In addition, at the request of the City, analyses of samples of water from the basement of the manufacturing building and of soil in the Mortimer Street Parking Lots were performed.

Due to the nature of the materials historically handled at the Site (i.e., oils and greases, gasoline, paint, etc.), any releases of such materials to the subsurface would be easily identified by visual or olfactory evidence or elevated organic vapor readings. Although some limited soil staining was observed and low level organic vapor readings were obtained, no evidence of gross chemical presence in soils underlying the facility was observed. In fact, in 8 of the 11 areas of potential concern investigated, no evidence of organic chemical presence was observed or no organic chemical compounds were detected. Those areas were the:

- i) 9,000 gallon UST;
- ii) AST;
- iii) Machine Pits;
- iv) Lubricant Storage Area;
- v) Paint Storage Area
- vi) Paint Booth Grate;

- vii) Capacitor Room; and
- viii) Interior Manholes.

In the remaining areas (the 20,000 gallon UST, Assembly Area/Machine Shop Floor, Press Pit, and Hazardous Waste Storage Area) PAH compounds were present at concentrations which exceed the NYS standards. The compounds and concentrations detected in the soil samples are consistent with what would be expected in an historic manufacturing/foundry facility.

Exceedances of the NYSDEC standards for metals in soil occurred in all but one of the analytical samples. While some slightly elevated concentrations may be present, it is believed that the concentrations detected are generally indicative of Site background.

SPRING ST.

BROADWAY

SYCAMORE ST.

MORTIMER ST.

REY ST.

GEORGE ST.

MATHEWS ST.

CRA

*** SOURCE MAP(S)**

- 1.) THE SANBORN LIBRARY, LLC 1889
- 2.) THE SANBORN LIBRARY, LLC 1986

LEGEND

- ▲ - WATER SAMPLE COLLECTION POINT
- - SOIL BORING AND ANALYTICAL SAMPLE
- ◇ - SOIL BORING, NO SAMPLE
- AST - ABOVEGROUND STORAGE TANK
- UST - UNDERGROUND STORAGE TANK

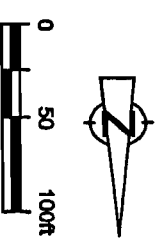
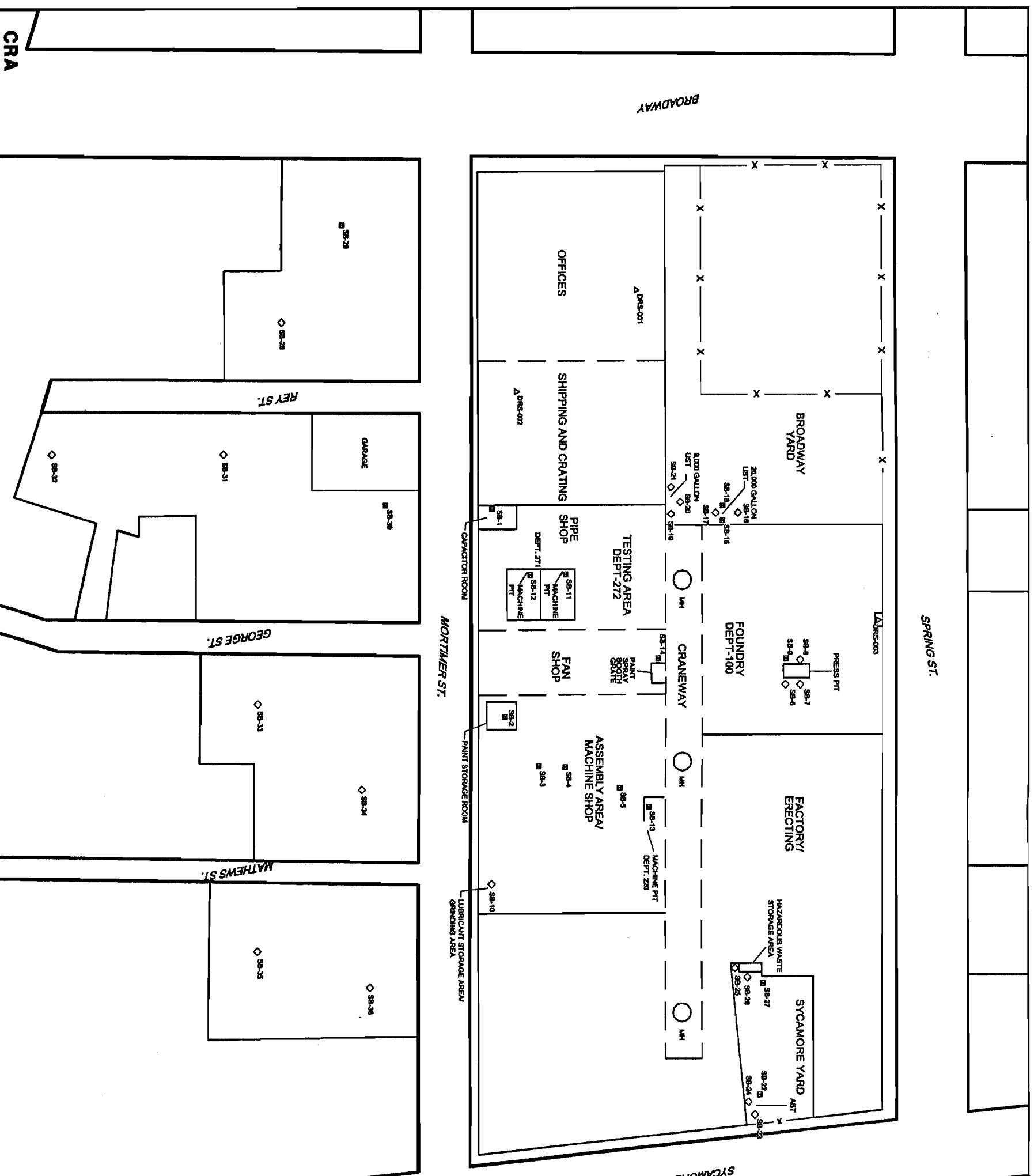


figure 1
LOCATION OF BORINGS AND
WATER SAMPLE COLLECTION
BUFFALO HOWDEN INC.
Buffalo, New York

TABLE 3.1
 SUMMARY OF SOIL SAMPLE COLLECTION AND ANALYSES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.

| Borehole Number | Depth (Ft. BGS) | Location | Sampled Interval (Feet) | Sample Number | Sample Analyses | Comments |
|-----------------|-----------------|--|-------------------------|-----------------|-----------------|---|
| SB-1 | 2.0 | Capacitor Room | 0.5 to 1.0 | S-14791-DRS-001 | PCBs | Confirmatory sample |
| SB-2 | 4.5 | Paint Storage Room | 4.0 to 4.5 | S-14791-DRS-003 | (1) | Confirmatory sample |
| SB-3 | 5.0 | Dept. 230 Assembly Area/Machine Shop Floor | 4.0 to 5.0 | S-14791-DRS-004 | (1) | Confirmatory sample |
| SB-4 | 5.0 | Dept. 220 Assembly Area/Machine Shop Floor | 4.0 to 5.0 | S-14791-DRS-005 | (1) | Motor oil odor |
| SB-5 | 5.0 | Dept. 212 Assembly Area/Machine Shop Floor | 4.0 to 5.0 | S-14791-DRS-006 | (1) | Confirmatory sample |
| SB-6 | 9.0 | North Side of Press Pit | - | - | - | No evidence for sample collection |
| SB-7 | 9.0 | North Side of Press Pit | - | - | - | No evidence for sample collection |
| SB-8 | 9.0 | South Side of Press Pit | - | - | - | No evidence for sample collection |
| SB-9 | 9.0 | South Side of Press Pit | 0.5 to 1.5 | S-14791-DRS-007 | (1) | Stained fill soil |
| SB-10 | 1.5 | Lubricant Storage Area | - | - | - | No evidence for sample collection |
| SB-11 | 8.0 | West Machine Pit in Dept. 271 | - | - | - | No evidence for sample collection |
| SB-12 | 8.0 | East Machine Pit in Dept. 271 | - | - | - | No evidence for sample collection |
| SB-13 | 4.0 | Machine Pit Dept. 220 | 3.0 to 4.0 | S-14791-DRS-008 | (1) | 3 to 4 ppm organic vapor |
| SB-14 | 9.0 | Paint Spray Booth | 8.0 to 9.0 | S-14791-DRS-009 | (1) | Confirmatory sample |
| SB-15 | 11.5 | 20,000 Gallon UST | 7.0 to 8.0 | S-14791-DRS-010 | (1) | Confirmatory sample |
| SB-16 | 8.0 | 20,000 Gallon UST | - | - | - | No evidence for sample collection |
| SB-17 | 11.5 | 20,000 Gallon UST | - | - | - | No evidence for sample collection |
| SB-18 | 8.0 | 20,000 Gallon UST | 6.0 to 6.5 | S-14791-DRS-011 | (1) | 1.2 ppm organic vapor and chemical odor |
| SB-19 | 8.0 | 9,000 Gallon UST | - | - | - | No evidence for sample collection |

TABLE 3.1
 SUMMARY OF SOIL SAMPLE COLLECTION AND ANALYSES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.

| Borehole Number | Depth (Ft. BGS) | Location | Sampled Interval (Feet) | Sample Number | Sample Analyses | Comments |
|-----------------|-----------------|---|-------------------------|------------------------|-----------------|-----------------------------------|
| SB-20 | 8.0 | 9,000 Gallon UST | - | - | - | No evidence for sample collection |
| SB-21 | 8.0 | 9,000 Gallon UST | - | - | - | No evidence for sample collection |
| SB-22 | 5.0 | AGST | 4.5 to 5.0 | S-14791DRS-012 | STARS Gasoline | Stained soil |
| SB-23 | 5.0 | AGST | - | - | - | No evidence for sample collection |
| SB-24 | 5.0 | AGST | - | - | - | No evidence for sample collection |
| SB-25 | 5.0 | Hazardous Waste Storage Area | - | - | - | No evidence for sample collection |
| SB-26 | 5.0 | Hazardous Waste Storage Area | - | - | - | No evidence for sample collection |
| SB-27 | 5.0 | Hazardous Waste Storage Area | 4.5 to 5.0 | S-14791-DRS-013 | (1) | Slightly stained soils |
| SB-28 | 8.0 | Parking Area Between Broadway and Rey St. | - | - | - | No evidence for sample collection |
| SB-29 | 5.0 | Parking Area Between Broadway and Rey St. | 0 to 1.0 | S-14791-DRS-014 | (1) | 2 ppm organic vapors |
| SB-30 | 8.0 | Parking Area Between Rey St. and George St. | 0.3 to 1.0 | S-14791-DRS-015 MS/MSD | (1) | Slightly stained soils |
| SB-31 | 8.0 | Parking Area Between Rey St. and George St. | - | - | - | No evidence for sample collection |
| SB-32 | 8.0 | Parking Area Between Rey St. and George St. | - | - | - | No evidence for sample collection |
| SB-33 | 6.0 | Parking Area Between George St. and Mathews St. | - | - | - | No evidence for sample collection |
| SB-34 | 5.0 | Parking Area Between George St. and Mathews St. | - | - | - | No evidence for sample collection |
| SB-35 | 1.5 | Northernmost Parking Area East of Mortimer Str. | - | - | - | No evidence for sample collection |

TABLE 3.1
 SUMMARY OF SOIL SAMPLE COLLECTION AND ANALYSES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.

| Borehole Number | Depth (Ft. BGS) | Location | Sampled Interval (Feet) | Sample Number | Sample Analyses | Comments |
|-----------------|-----------------|---|-------------------------|---------------|-----------------|-----------------------------------|
| SB-36 | 1.5 | Northernmost Parking Area East of Mortimer St. | - | - | - | No evidence for sample collection |

Notes:

- Not applicable.
- * No sample S-14791-DRS-002.
- (1) Samples analyzed for TCL VOCs, SVOCs, TAL metals, PCBs, and cyanide.
- AGST Aboveground Storage Tank.
- BGS Below Ground Surface.
- MS Matrix Spike.
- MSD Matrix Spike Duplicate.
- PCBs Polychlorinated Biphenyls.
- ppm Parts Per Million.
- SVOC Semi-Volatile Organic Compounds.
- TAL Target Analyte List.
- TCL Target Compound List.
- UST Underground Storage Tank.
- VOCs Volatile Organic Compounds.

TABLE 3.2
 SUMMARY OF WATER SAMPLE COLLECTION AND ANALYSES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.

| <i>Sample Location Number</i> | <i>Description</i> | <i>Analyses</i> |
|---------------------------------------|--|-----------------|
| DRS-001 | Water Sample #1 - Department 370 | (1) |
| DRS-002 | Water Sample #2 - Mortimer Street Entrance | (1) |
| DRS-003 | Water Sample #3 - Department 100 | (2) |

Note:

(1) Samples analyzed for TCL VOCs, SVOCs, TAL metals, PCBs, and cyanide.

PCBs Polychlorinated Biphenyls.

SVOCs Semi-Volatile Organic Compounds.

TAL Target Analyte List.

TCL Target Compound List.

VOCs Volatile Organic Compounds.

TABLE 4.1

ORGANIC COMPOUNDS DETECTED IN SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.

| Boring Location: | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 |
|-------------------------------|----------------|---------------|---------------|---------------|---------------|
| Area: | Capacitor Room | Paint Storage | Assembly Area | Assembly Area | Assembly Area |
| Sample Date: | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 |
| Parameters | Units | Rec.Clean. 1 | | | |
| Volatiles Organics | | | | | |
| Carbon disulfide | ug/kg | 2700 | 6.3 U | 6.0 U | 6.2 U |
| Chlorobenzene | ug/kg | 1700 | 6.3 U | 6.0 U | 6.2 U |
| Ethylbenzene | ug/kg | 5500 | 6.3 U | 6.0 U | 6.2 U |
| Toluene | ug/kg | 1500 | 6.3 U | 6.0 U | 6.2 U |
| Xylenes (total) | ug/kg | 1200 | 6.3 U | 6.0 U | 6.2 U |
| Acetone | ug/kg | 200 | 25 U | 24 U | 35 U |
| Semi-volatile Organics | | | | | |
| Acenaphthene | ug/kg | 50000 | 410 U | 610 | 220 J |
| Acenaphthylene | ug/kg | 41000 | 410 U | 320 J | 410 U |
| Anthracene | ug/kg | 50000 | 410 U | 1100 | 410 U |
| Benzo(a)anthracene | ug/kg | 224 | 410 U | 1900 | 410 U |
| Benzo(a)pyrene | ug/kg | 61 | 410 U | 1500 | 410 U |
| Benzo(b)fluoranthene | ug/kg | 224 | 410 U | 1300 | 410 U |
| Benzo(k)fluoranthene | ug/kg | 224 | 410 U | 1200 | 410 U |
| Benzo(g,h,i)perylene | ug/kg | 50000 | 410 U | 890 | 410 U |
| Carbazole | ug/kg | 400 | 410 U | 560 | 410 U |
| Chrysene | ug/kg | 14 | 410 U | 1900 | 410 U |
| Dibenz(a,h)anthracene | ug/kg | 6200 | 410 U | 500 | 410 U |
| Fluoranthene | ug/kg | 50000 | 410 U | 3300 | 410 U |
| Fluorene | ug/kg | 50000 | 410 U | 670 | 410 U |
| Indeno(1,2,3-cd)pyrene | ug/kg | 3200 | 410 U | 870 | 410 U |
| 2-Methylnaphthalene | ug/kg | 36400 | 410 U | 290 J | 130 J |
| Naphthalene | ug/kg | 13000 | 410 U | 900 | 93 J |
| Phenanthrene | ug/kg | 50000 | 410 U | 3300 | 1100 |
| Pyrene | ug/kg | 50000 | 410 U | 2600 | 4100 U |
| PCBs | | | | | |
| Aroclor 1254 | ug/kg | 10000 | 41 U | 40 U | 1300 |
| General Chemistry | | | | | |
| Percent solids | % | -- | 79.5 | 83.4 | 81.2 |
| Cyanide, total | mg/kg | -- | 0.63 U | 0.60 U | 0.62 U |

TABLE 4.1

ORGANIC COMPOUNDS DETECTED IN SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.

| Boring Location: | Area: | SB-9 | | SB-13 | | SB-14 | | SB-15 | | SB-18 | |
|-------------------------------|-------|-------------|-------------|-------------|------------|-----------------|-----------------|-----------------|-----------------|------------|------------|
| | | Press Pit | Machine Pit | Paint Booth | Grate | 20,000 Gal. UST | 20,000 Gal. UST | 20,000 Gal. UST | 20,000 Gal. UST | | |
| Sample Date: | | 02/07/2000 | 02/08/2000 | 02/08/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 |
| Parameters | Units | Rec.Clean.1 | | | | | | | | | |
| Volatiles Organics | | | | | | | | | | | |
| Carbon disulfide | ug/kg | 2700 | 7.2 | 6.0 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 7.4 U |
| Chlorobenzene | ug/kg | 1700 | 5.7 U | 6.0 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 7.4 U |
| Ethylbenzene | ug/kg | 5500 | 5.7 U | 6.0 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 7.4 U |
| Toluene | ug/kg | 1500 | 5.7 U | 6.0 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 5.8 U | 7.4 U |
| Xylenes (total) | ug/kg | 1200 | 9.4 | 24 U | 23 U | 23 U | 23 U | 23 U | 23 U | 23 U | 67 |
| Acetone | ug/kg | 200 | 23 U | 24 U | 23 U | 23 U | 23 U | 23 U | 23 U | 23 U | 67 |
| Semi-volatile Organics | | | | | | | | | | | |
| Acenaphthene | ug/kg | 50000 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 270 J |
| Acenaphthylene | ug/kg | 41000 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 190 J |
| Anthracene | ug/kg | 50000 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 580 J |
| Benzo(a)anthracene | ug/kg | 224 | 11000 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 1100 J |
| Benzo(a)pyrene | ug/kg | 61 | 7500 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 760 J |
| Benzo(b)fluoranthene | ug/kg | 224 | 15000 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 840 J |
| Benzo(k)fluoranthene | ug/kg | 224 | 7700 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 850 J |
| Benzo(g,h,i)perylene | ug/kg | 50000 | 9300 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 820 U |
| Carbazole | ug/kg | -- | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 290 J |
| Chrysene | ug/kg | 400 | 14000 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 1200 J |
| Dibenz(a,h)anthracene | ug/kg | 14 | 2700 J | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 820 U |
| Dibenzofuran | ug/kg | 6200 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 300 J |
| Fluoranthene | ug/kg | 50000 | 14000 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 2500 J |
| Fluorene | ug/kg | 50000 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 420 J |
| Indeno(1,2,3-cd)pyrene | ug/kg | 3200 | 7900 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 820 U |
| 2-Methylnaphthalene | ug/kg | 36400 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 310 J |
| Naphthalene | ug/kg | 13000 | 3700 U | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 820 U |
| Phenanthrene | ug/kg | 50000 | 15000 | 3900 U | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 2800 J |
| Pyrene | ug/kg | 50000 | 15000 | 1800 J | 380 U | 380 U | 380 U | 380 U | 380 U | 380 U | 1500 J |
| PCBs | | | | | | | | | | | |
| Aroclor 1254 | ug/kg | 10000 | 37 U | 400 | 38 U | 38 U | 38 U | 38 U | 38 U | 38 U | 41 U |
| General Chemistry | | | | | | | | | | | |
| Percent solids | % | -- | 88.3 | 83.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 67.1 |
| Cyanide, total | mg/kg | -- | 0.57 U | 0.60 U | 0.58 U | 0.58 U | 0.58 U | 0.58 U | 0.58 U | 0.58 U | 0.74 U |

TABLE 4.1

ORGANIC COMPOUNDS DETECTED IN SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.

Boring Location: SB-27 SB-29 SB-30
Area: Haz. Waste Parking Lots Parking Lots
Storage -- --
Sample Date: 02/09/2000 02/10/2000 02/10/2000

| Parameters | Units | Rec.Clean. 1 |
|-------------------------------|-------|--------------|
| <u>Volatile Organics</u> | | |
| Carbon disulfide | ug/kg | 2700 |
| Chlorobenzene | ug/kg | 1700 |
| Ethylbenzene | ug/kg | 5500 |
| Toluene | ug/kg | 1500 |
| Xylenes (total) | ug/kg | 1200 |
| Acetone | ug/kg | 200 |
| <u>Semi-volatile Organics</u> | | |
| Acenaphthene | ug/kg | 50000 |
| Acenaphthylene | ug/kg | 41000 |
| Anthracene | ug/kg | 50000 |
| Benzo(a)anthracene | ug/kg | 224 |
| Benzo(a)pyrene | ug/kg | 61 |
| Benzo(b)fluoranthene | ug/kg | 224 |
| Benzo(k)fluoranthene | ug/kg | 224 |
| Benzo(g,h,i)perylene | ug/kg | 50000 |
| Carbazole | ug/kg | -- |
| Chrysene | ug/kg | 400 |
| Dibenz(a,h)anthracene | ug/kg | 14 |
| Dibenzofuran | ug/kg | 6200 |
| Fluorene | ug/kg | 50000 |
| Indeno(1,2,3-cd)pyrene | ug/kg | 3200 |
| 2-Methylnaphthalene | ug/kg | 36400 |
| Naphthalene | ug/kg | 13000 |
| Phenanthrene | ug/kg | 50000 |
| Pyrene | ug/kg | 50000 |
| <u>PCBs</u> | | |
| Aroclor 1254 | ug/kg | 10000 |

| | | | |
|--------------------------|-------|-------|--------|
| | 6.4 U | 5.7 U | 5.9 U |
| | 6.4 U | 3.9 J | 2.8 J |
| | 6.4 U | 5.7 U | 5.9 U |
| | 6.4 U | 3.6 J | 5.9 U |
| | 6.4 U | 5.7 U | 5.9 U |
| | 26 U | 23 U | 24 U |
| | 430 U | 380 U | 780 U |
| | 430 U | 380 U | 780 U |
| | 430 U | 380 U | 290 J |
| | 250 J | 380 U | 1000 |
| | 230 J | 380 U | 870 |
| | 230 J | 380 U | 830 |
| | 200 J | 380 U | 710 J |
| | 430 U | 380 U | 330 J |
| | 430 U | 380 U | 780 U |
| | 260 J | 380 U | 1100 |
| | 430 U | 380 U | 780 U |
| | 430 U | 380 U | 780 U |
| | 650 J | 380 U | 2000 |
| | 430 U | 380 U | 780 U |
| | 430 U | 380 U | 360 J |
| | 430 U | 380 U | 500 J |
| | 430 U | 380 U | 340 J |
| | 360 J | 380 U | 1400 |
| | 360 J | 380 U | 1400 |
| | 43 U | 38 U | 39 U |
| <u>General Chemistry</u> | | | |
| Percent solids | % | 87.0 | 85.1 |
| Cyanide, total | mg/kg | 2.6 J | 0.59 U |

TABLE 4.1

ORGANIC COMPOUNDS DETECTED IN SOIL
FORMER BUFFALO FORGE PLANT NO. 1
HOWDEN BUFFALO, INC.

Notes

- U - Not detected at or above the associated value.
- J - Estimated.
- - Not applicable.
- I - New York State Dept. of Environmental Conservation, "Determination of Soil Cleanup Objectives and Cleanup Levels" (TAGM 4046), April 1995.

TABLE 4.2
 INORGANIC COMPOUNDS DETECTED IN SOIL
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.

| Metals | Units | Rec.Clean. (1) | Boring Location: Background (1) | Area: Paint Storage | | | | | SB-13 Machine Pit |
|-----------|-------|----------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|----------------------|
| | | | | SB-2 Paint Storage | SB-3 Assembly Area | SB-4 Assembly Area | SB-5 Assembly Area | SB-9 Press Pit | |
| Mercury | mg/kg | 0.1 | 0.001-0.2 | 0.24 J | 0.18 J | 0.025 J | 0.036 J | 0.038 J | 0.019 J |
| Antimony | mg/kg | -- | -- | 2.9 J | 2.5 J | 0.32 J | 0.31 J | 0.72 J | 7.2 U J |
| Silver | mg/kg | -- | -- | 1.3 U | 1.2 U | 1.2 U | 1.3 U | 1.1 U | 1.2 U |
| Aluminum | mg/kg | -- | 33000 | 7200 | 10100 | 11300 | 13300 | 9770 | 7770 |
| Arsenic | mg/kg | 7.5 | 3-12 | 8.1 | 6.6 | 5.3 | 4.9 | 5.6 | 5 |
| Barium | mg/kg | 300 | 15-600 | 125 | 78.5 | 87 | 83.7 | 27.4 | 67.7 |
| Beryllium | mg/kg | 0.16 | 0-1.75 | 0.47 | 0.58 | 0.57 | 0.69 | 0.4 | 0.42 |
| Calcium | mg/kg | -- | 130-35000 | 48200 J | 56400 J | 89400 J | 23300 J | 13500 J | 78800 J |
| Cadmium | mg/kg | 1 | 0.1-1 | 0.36 | 0.8 | 0.51 | 0.16 | 0.14 | 0.31 |
| Zinc | mg/kg | 20 | 9-50 | 96.9 J | 85.6 J | 69.5 J | 73.2 J | 35.9 | 55.7 J |
| Cobalt | mg/kg | 30 | 2.5-60 | 8.2 | 14.2 | 10 | 10.9 | 5.6 | 7.2 |
| Chromium | mg/kg | 10 | 1.5-40 | 16.5 | 23 | 16.4 | 18.2 | 11.3 | 13.5 |
| Copper | mg/kg | -- | -- | 39.7 J | 57 J | 17.5 J | 24 J | 15.5 J | 15.5 J |
| Iron | mg/kg | 2000 | 2000-550000 | 22700 | 30400 | 21200 | 22600 | 21200 | 15200 |
| Potassium | mg/kg | -- | 8500-43000 | 1130 | 1270 | 2420 | 2390 | 831 | 1660 |
| Magnesium | mg/kg | -- | 100-5000 | 14600 J | 16600 J | 29100 J | 15800 J | 2640 J | 26200 J |
| Manganese | mg/kg | -- | 50-5000 | 313 J | 594 J | 839 J | 372 J | 219 J | 330 J |
| Sodium | mg/kg | -- | 6000-8000 | 142 U | 172 U | 238 | 190 U | 199 U | 226 |
| Nickel | mg/kg | 13 | 0.5-25 | 13.6 | 27 | 16.4 | 19.9 | 11.4 | 15.1 |
| Lead | mg/kg | -- | 200-504 | 284 | 95.6 | 20.9 | 15.7 | 42.8 | 10.2 |
| Selenium | mg/kg | 2 | 0.1-3.7 | 0.63 U | 1.2 U | 1.2 U | 0.67 U | 0.24 | 1.2 U |
| Thallium | mg/kg | -- | -- | 0.49 | 1.2 U | 1.2 U | 1.3 U | 0.55 | 1.2 U |
| Vanadium | mg/kg | 150 | 1-300 | 21.7 | 23.8 | 24.4 | 29.6 | 17.7 | 20 |

TABLE 4.2
 INORGANIC COMPOUNDS DETECTED IN SOIL
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.

| Metals | Units | Rec.Clean. 1 | Boring Location: Background 1 | SB-14 | | SB-15 | | SB-18 | | SB-27 | | SB-29 | | SB-30 | |
|-----------|-------|--------------|----------------------------------|-------------|-----------------|-----------------|-----------------|------------|--------------|--------------|--------------|-------|--|-------|--|
| | | | | Paint Booth | 20,000 Gal. UST | 20,000 Gal. UST | 20,000 Gal. UST | Haz. Waste | Parking Lots | Parking Lots | Parking Lots | | | | |
| Mercury | mg/kg | 0.1 | 0.001-0.2 | 0.12 U | 0.12 U | 0.12 U | 0.35 | 1.3 | 0.014 J | 0.22 J | | | | | |
| Antimony | mg/kg | -- | -- | 6.9 UJ | 0.34 | 0.34 | 1.3 | 0.83 | 0.41 J | 29.5 J | | | | | |
| Silver | mg/kg | -- | -- | 1.2 U | 1.2 U | 1.2 U | 1.5 U | 0.22 | 1.1 U | 0.1 | | | | | |
| Aluminum | mg/kg | -- | 33000 | 4800 | 4450 | 4450 | 2950 | 8820 | 19400 | 3580 | | | | | |
| Arsenic | mg/kg | 7.5 | 3-12 | 0.98 | 4.4 | 4.4 | 9.8 | 9.5 | 6 | 18 | | | | | |
| Barium | mg/kg | 300 | 15-600 | 35.5 | 33.3 | 33.3 | 115 | 269 | 199 | 114 | | | | | |
| Beryllium | mg/kg | 0.16 | 0-1.75 | 0.26 | 0.42 | 0.42 | 0.46 | 0.53 | 1.3 | 0.54 | | | | | |
| Calcium | mg/kg | -- | 130-35000 | 113000 J | 60100 | 60100 | 12000 | 43100 | 21700 J | 11700 J | | | | | |
| Cadmium | mg/kg | 1 | 0.1-1 | 0.24 | 0.5 | 0.5 | 0.37 | 0.65 | 0.52 | 0.54 | | | | | |
| Zinc | mg/kg | 20 | 9-50 | 38.8 | 55.8 | 55.8 | 199 | 246 | 95 | 194 | | | | | |
| Cobalt | mg/kg | 30 | 2.5-60 | 4 | 4.4 | 4.4 | 4.7 | 8.5 | 49.7 | 7.9 | | | | | |
| Chromium | mg/kg | 10 | 1.5-40 | 8.3 | 20.6 | 20.6 | 6.4 | 16.4 | 22.2 | 11.6 | | | | | |
| Copper | mg/kg | -- | -- | 9.2 J | 28.8 J | 28.8 J | 41.7 J | 49.4 J | 20.3 J | 255 J | | | | | |
| Iron | mg/kg | 2000 | 2000-550000 | 9980 | 11500 | 11500 | 11100 | 17700 | 37500 | 25800 | | | | | |
| Potassium | mg/kg | -- | 8500-43000 | 1040 | 649 | 649 | 594 | 2830 | 1640 | 466 | | | | | |
| Magnesium | mg/kg | -- | 100-5000 | 38400 J | 8970 J | 8970 J | 2480 J | 10600 J | 5540 J | 2610 J | | | | | |
| Manganese | mg/kg | -- | 50-5000 | 239 J | 702 J | 702 J | 112 J | 677 J | 1680 J | 159 J | | | | | |
| Sodium | mg/kg | -- | 6000-8000 | 168 U | 121 U | 121 U | 296 | 406 | 914 | 150 U | | | | | |
| Nickel | mg/kg | 13 | 0.5-25 | 7.1 | 14 | 14 | 8.4 | 16.4 | 17 | 16.5 | | | | | |
| Lead | mg/kg | -- | 200-504 | 5.8 | 19.6 | 19.6 | 301 | 419 | 93.1 | 764 | | | | | |
| Selenium | mg/kg | 2 | 0.1-3.7 | 0.58 U | 0.62 U | 0.62 U | 1.5 | 0.65 U | 0.45 | 1.2 | | | | | |
| Thallium | mg/kg | -- | -- | 1.2 U | 0.59 | 0.59 | 0.82 | 0.52 | 0.43 | 1.2 U | | | | | |
| Vanadium | mg/kg | 150 | 1-300 | 13.4 | 13.1 | 13.1 | 14 | 21.1 | 32.9 | 12.7 | | | | | |

Notes:
 (1)

"Determination of Soil Cleanup Objectives and Cleanup Levels", NYSDEC Technical and Administrative Guidance Memorandum 4046, April 1995.

- J Associated value is estimated.
- U Non-detect at associated value.
- UST Underground Storage Tank.
- Haz. Hazardous.

Rec. Clean. Recommended Soil Cleanup Objective.

Sample concentration exceeding recommended cleanup objective and background concentrations.

TABLE 4.3

COMPOUNDS DETECTED IN WATER
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.

Location: DRS-001 DRS-002 DRS-003
Sample ID: W-14791-DRS-001 W-14791-DRS-002 W-14791-DRS-003
Sample Date: 02/09/2000 02/09/2000 02/09/2000

Parameters

Units

Volatiles Organics

| Parameter | Unit | Value |
|------------------------|------|--------|
| Trichloroethene | ug/L | 7.0 |
| Semi-volatile Organics | | |
| Benzo(b)fluoranthene | ug/L | 10.0 U |
| Chrysene | ug/L | 10.0 U |
| Di-n-butyl phthalate | ug/L | 10.0 U |
| Fluoranthene | ug/L | 10.0 U |
| Pyrene | ug/L | 10.0 U |

Metals

| Parameter | Unit | Value |
|-----------|------|--------|
| Mercury | ug/L | 0.70 |
| Antimony | ug/L | 3.2 |
| Silver | ug/L | 10.0 U |
| Aluminum | ug/L | 397 |
| Arsenic | ug/L | 7.0 |
| Barium | ug/L | 322 |
| Beryllium | ug/L | 0.19 U |
| Calcium | ug/L | 50400 |
| Cadmium | ug/L | 6.2 |
| Zinc | ug/L | 2680 |
| Cobalt | ug/L | 15.2 |
| Chromium | ug/L | 9.7 U |
| Copper | ug/L | 54.5 |
| Iron | ug/L | 69600 |
| Potassium | ug/L | 20100 |
| Magnesium | ug/L | 28000 |
| Manganese | ug/L | 280 |
| Sodium | ug/L | 81700 |
| Nickel | ug/L | 40.0 U |
| Lead | ug/L | 224 |
| Selenium | ug/L | 3.2 J |
| Thallium | ug/L | 10.0 U |
| Vanadium | ug/L | 3.7 |

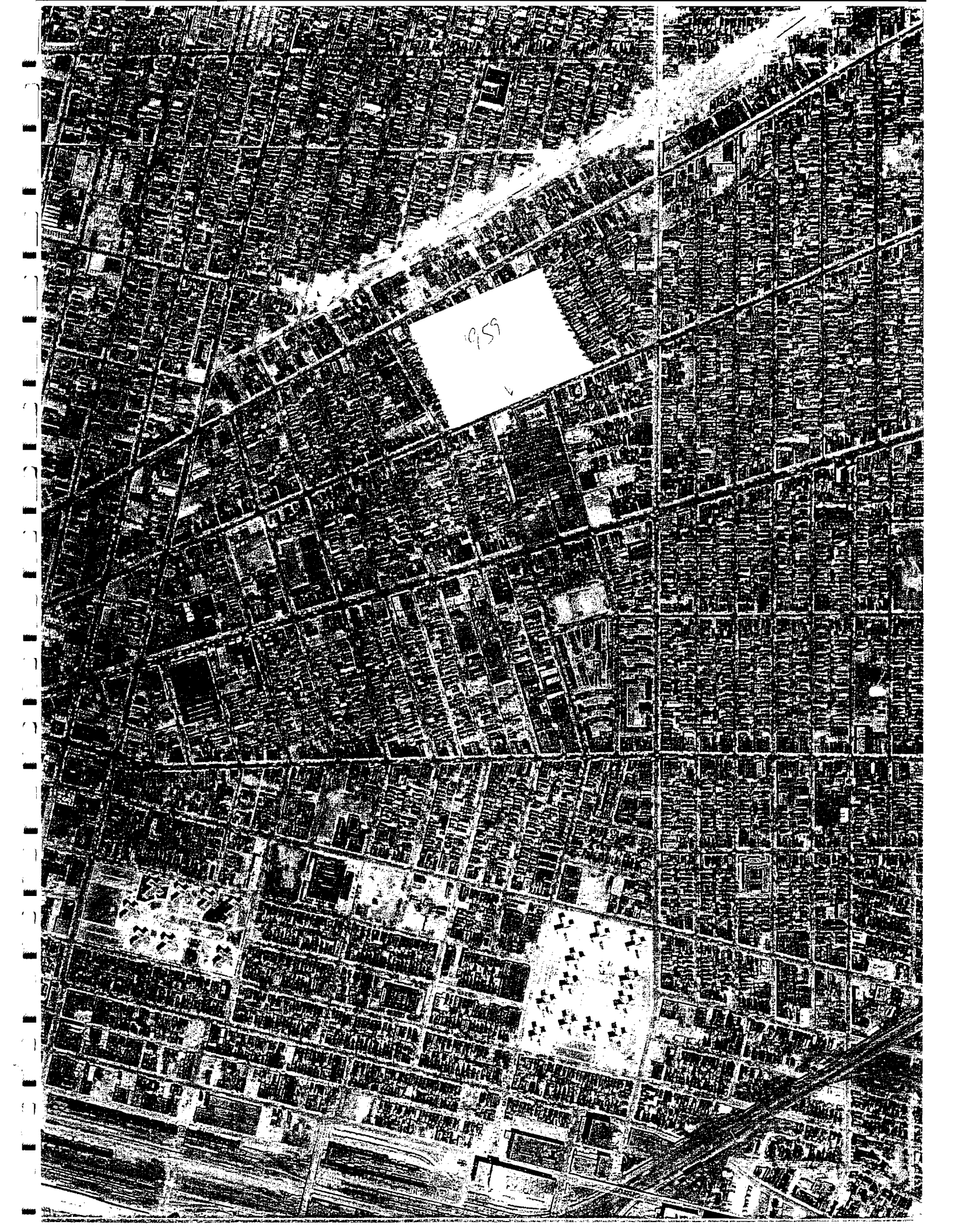
TABLE 4.3
COMPOUNDS DETECTED IN WATER
FORMER BUFFALO FORGE PLANT NO. 1
HOWDEN BUFFALO, INC.

Notes

- U - Not detected at or above the associated value.
- J - Estimated.
- - Not applicable.

APPENDIX A
AERIAL PHOTOGRAPHS

1959



1966
↓



1978
↓



1983



K





1995



APPENDIX B
SANBORN FIRE INSURANCE MAPS



"Linking Technology with Tradition"

Sanborn™ Map Report

Ship to: John Monell

CRA Services

2055 Niagara Falls Blvd.

Niagara Falls, NY 14304

1093659AAK

716-297-6150

Order Date: 1/10/2000

Completion Date: 01/11/2000

Inquiry #: 450757.2S

P.O. #: 14791

Site Name: Buffalo Forge

Address: 490 Broadway

City/State: Buffalo, NY 14204

Cross Streets: Sycamore

Based on client-supplied information, fire insurance maps for the following years were identified

1889 - 1 - map

1899 - 1 - map

1926 - 1 - map

1950 - 1 - map

1986 - 1 - map

Total Maps: 5

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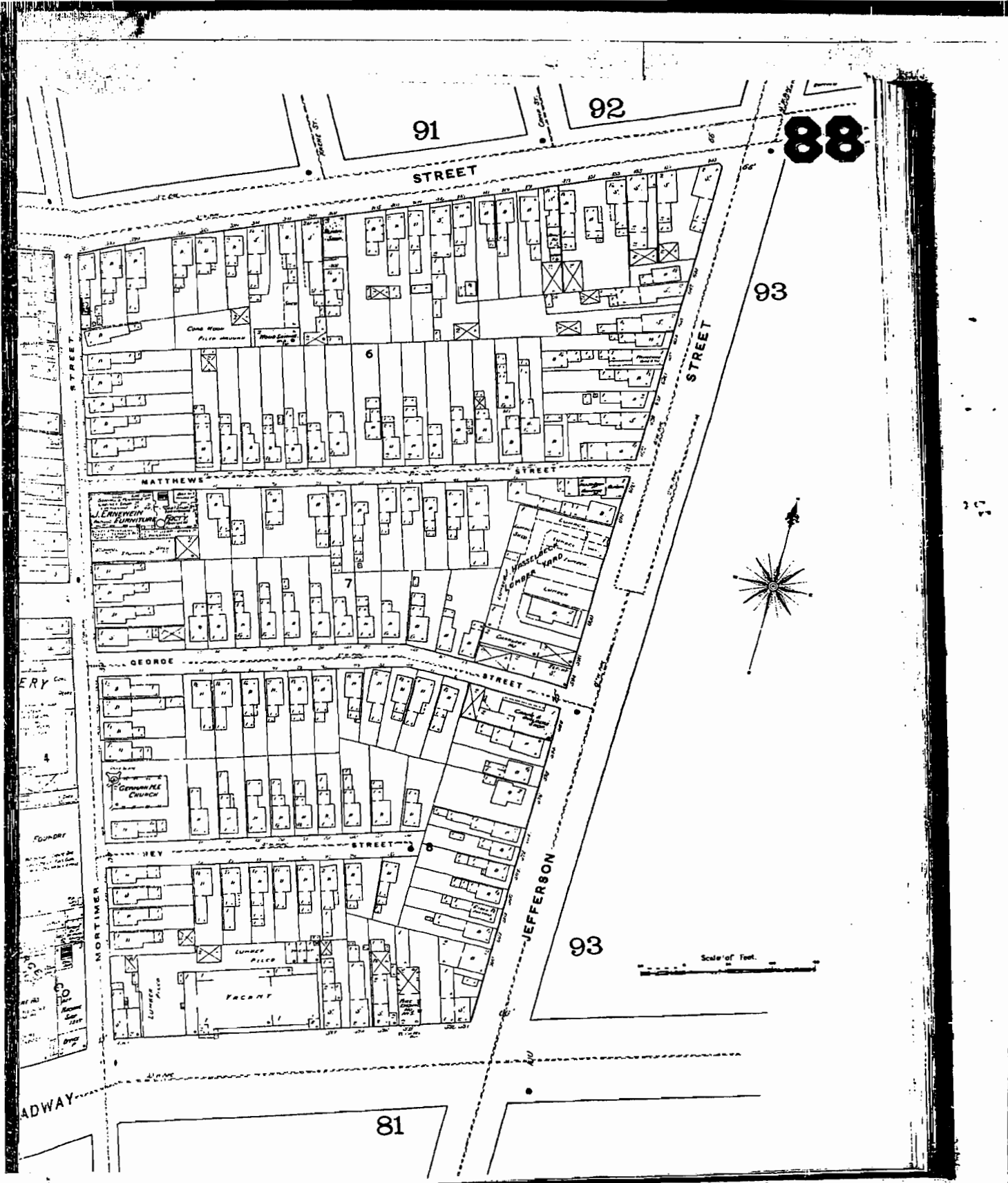
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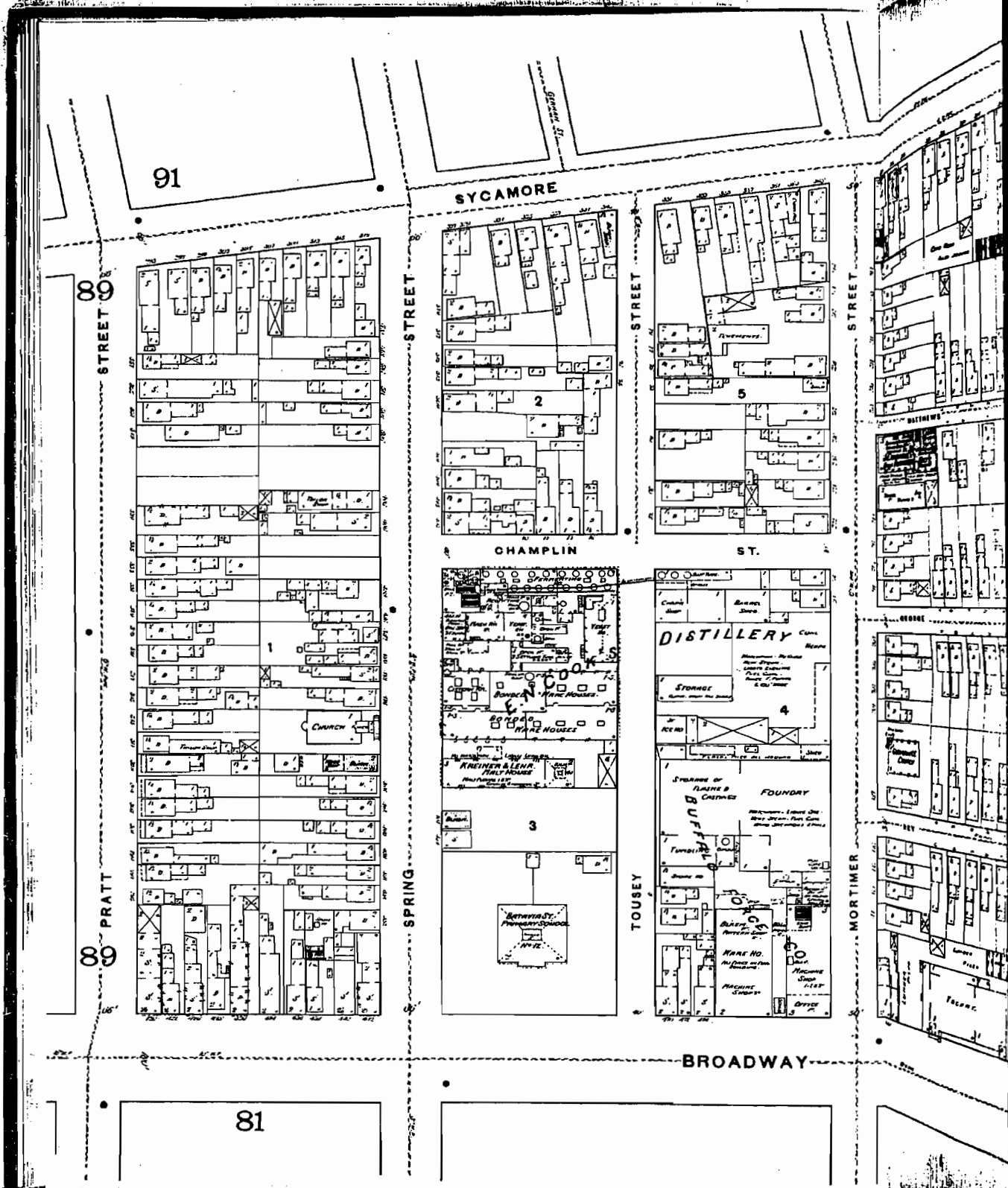


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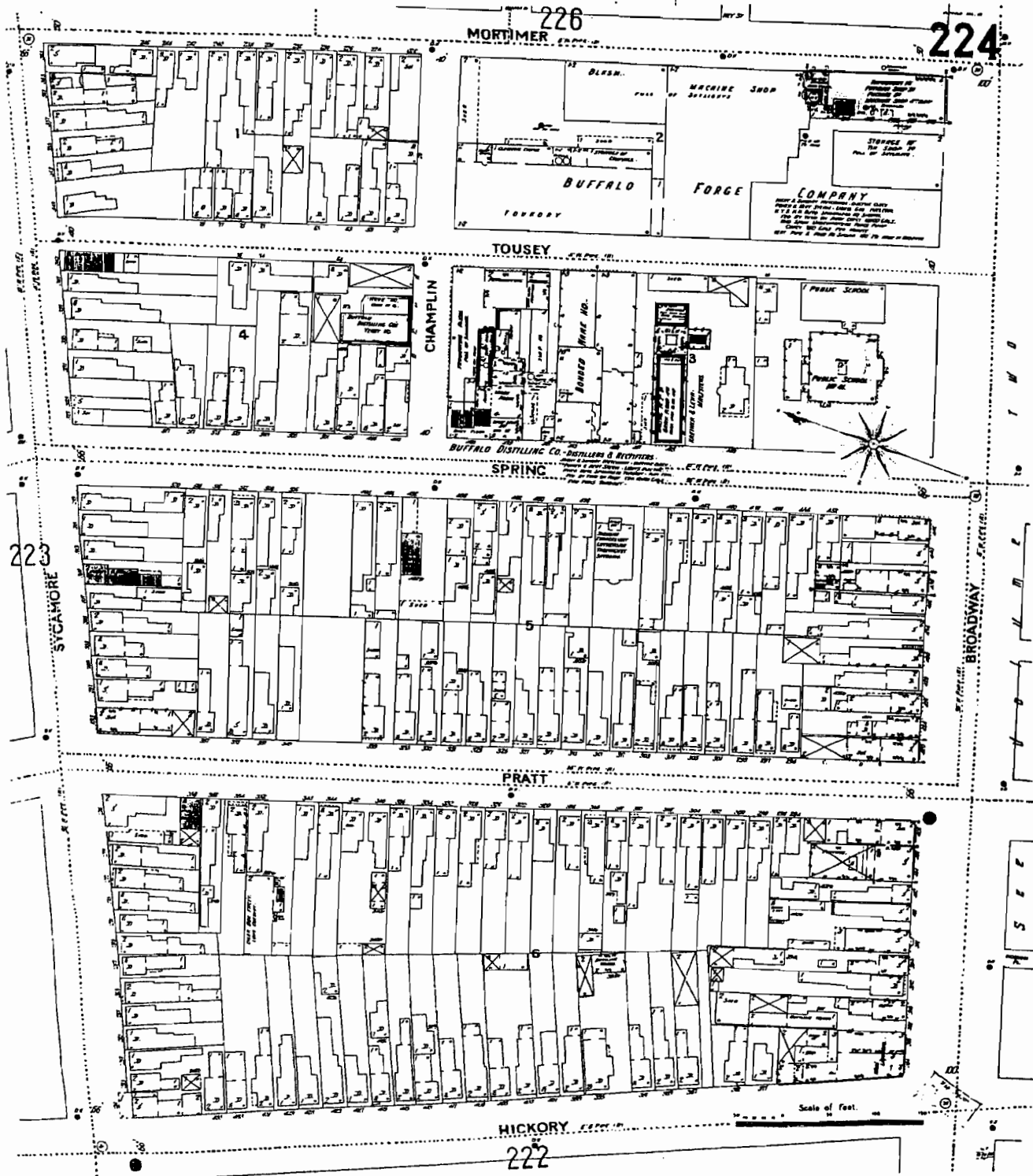
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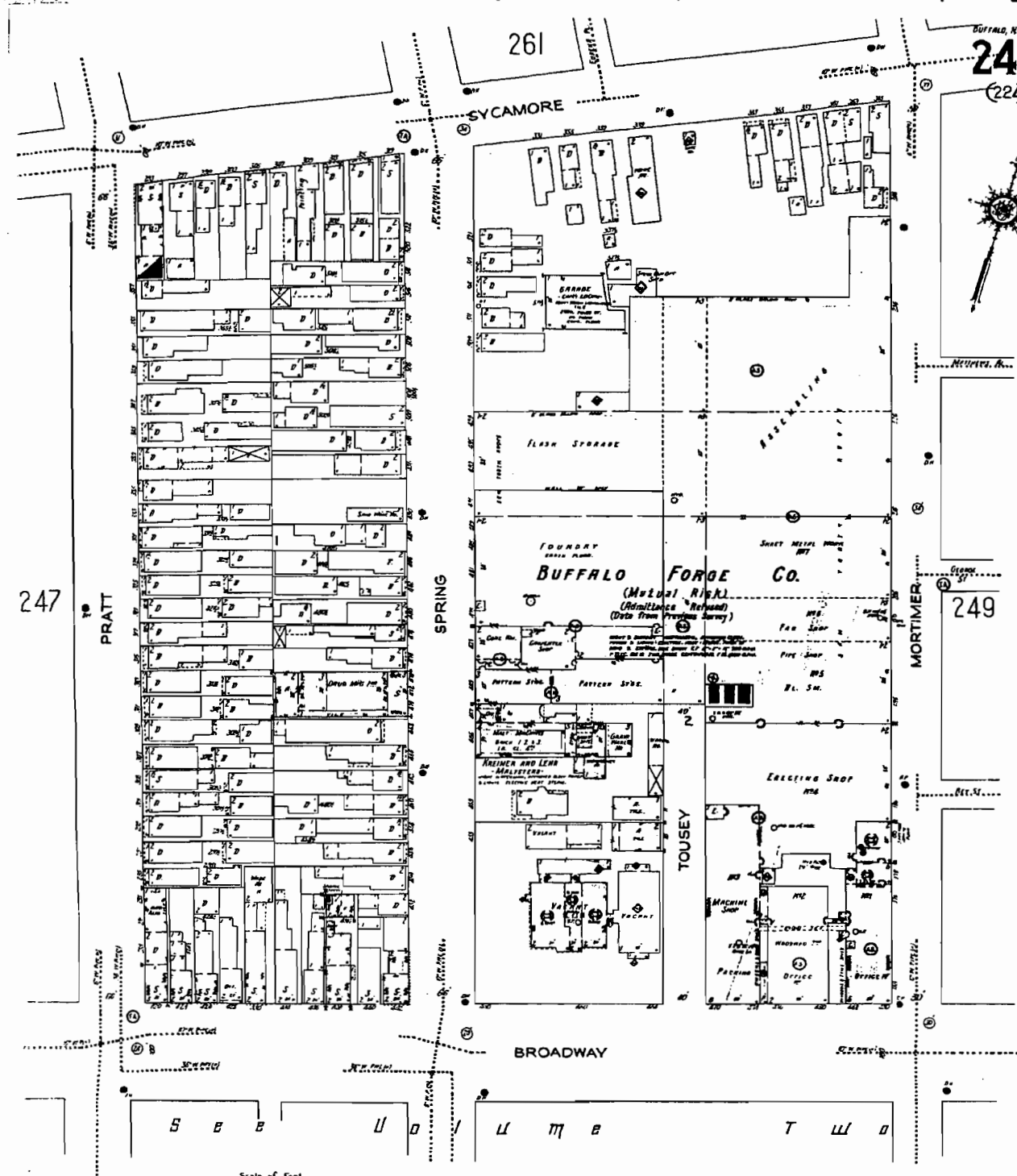
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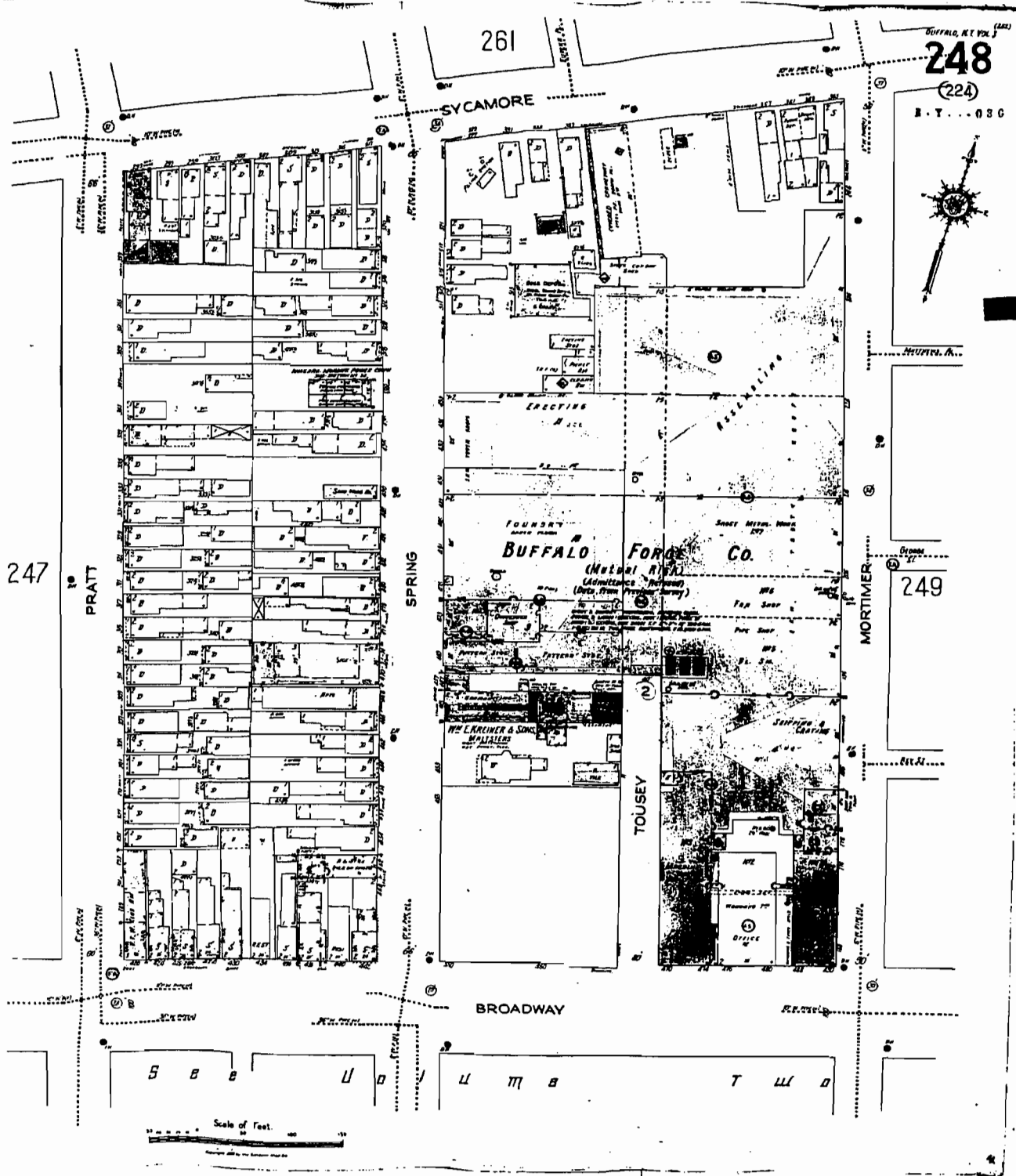
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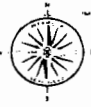
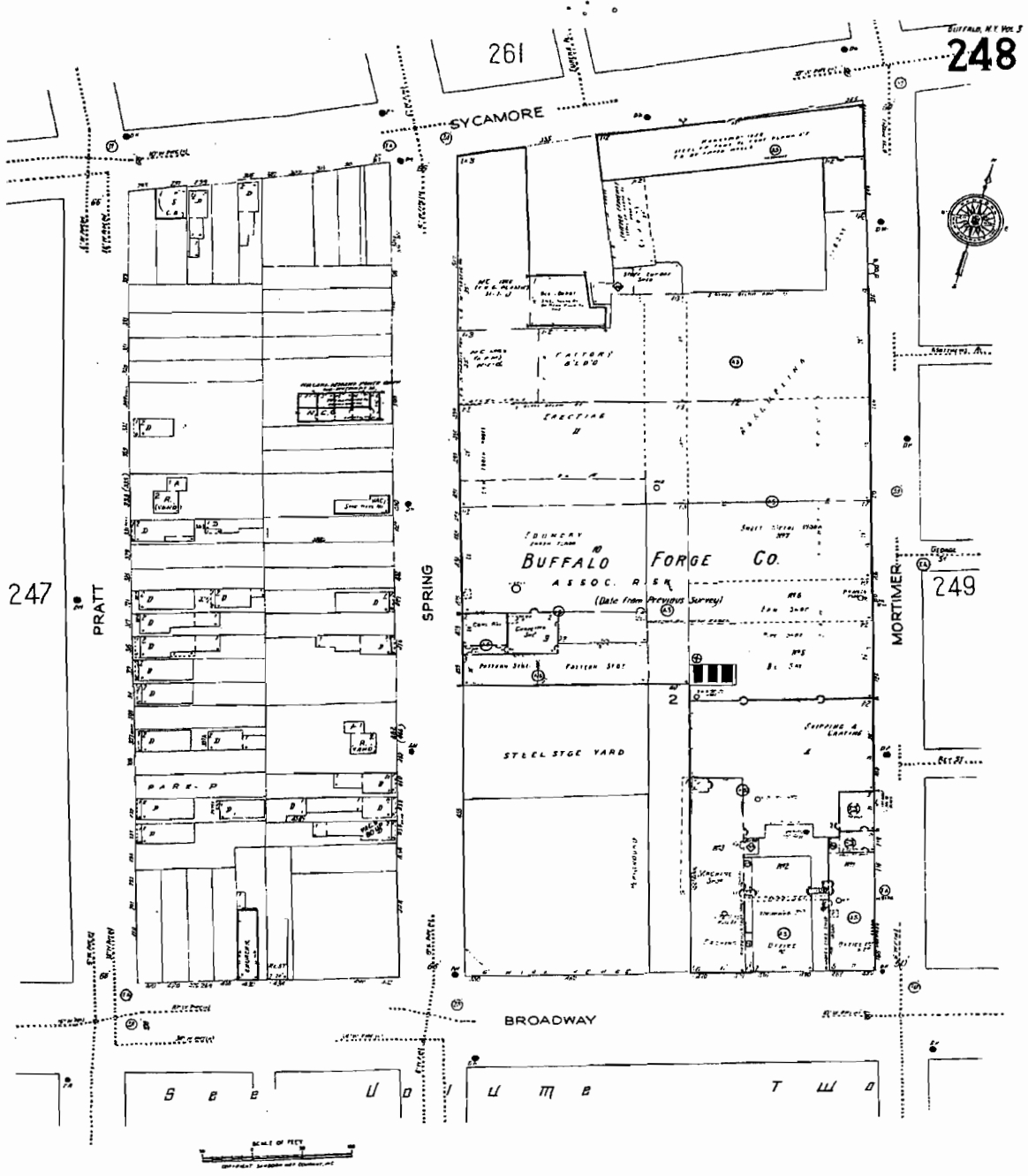


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APPENDIX C
STRATIGRAPHIC AND INSTRUMENTATION LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-01)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-1
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | CONCRETE FLOOR SLAB | -.5 | | 001 | X | | 0 |
| -2.5 | CL-SILTY CLAY (NATIVE), trace fine sand, red brown, dry, no odor, some concrete debris @ 0.5ft BGS (on top of clay) END OF HOLE @ 2.0ft BGS | -2.0 | | | | | |
| -5.0 | | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

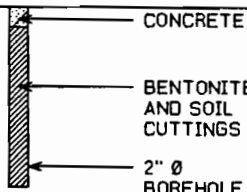
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-02)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-2
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|--------------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | CONCRETE FLOOR SLAB CL-GRAVELLY SILTY CLAY (NATIVE), red/brown, dry to moist | -4 |  | 003 | | | 0 |
| -5.0 | - wet, shaley partings, refusal (@ 4.5ft BGS) END OF HOLE @ 4.5ft BGS | -4.5 | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

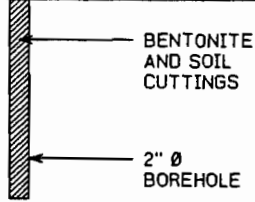
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-03)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-3
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|---|------------------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), some fine gray and white sands, red/brown, dry, no odor | |  | | | | |
| -5.0 | - refusal (@ 5.0ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 | | 2" Ø BOREHOLE | 004 | X | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

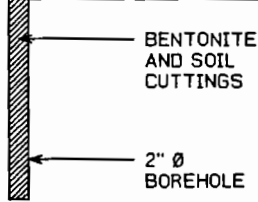
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▽ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-04)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-4
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|---|---|--|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), some to trace fine gravel, brown/olive, moist, no odor | |  <p style="margin-left: 20px;">BENTONITE AND SOIL CUTTINGS</p> <p style="margin-left: 20px;">2" Ø BOREHOLE</p> | | | | |
| -5.0 | - motor oil odor (4.5 to 5.0ft BGS) - refusal (@ 5.0ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 | | 005 | | | 0 |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

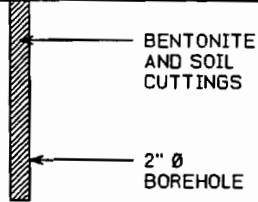

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ∇ STATIC WATER LEVEL ∇
 CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-05)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-5
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|--|--|-------------------|---|--------|---|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 -5.0 -7.5 -10.0 -12.5 -15.0 -17.5 -20.0 -22.5 -25.0 -27.5 -30.0 -32.5 | CL-SILTY CLAY (NATIVE), with some to trace fine gravel, olive/brown, moist to wet, no odor - refusal (@ 5.0ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 |  <p>BENTONITE AND SOIL CUTTINGS</p> <p>2" Ø BOREHOLE</p> | 006 |  | | 0 |

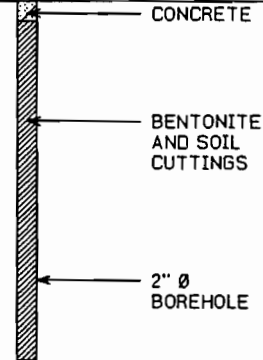
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-06)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-6
DATE COMPLETED: FEBRUARY 7, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|--|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | CONCRETE FLOOR SLAB | -.5 |  | | | | 0 |
| -2.5 | FILL-SAND, trace silt, fine grained sand, brown | -2.5 | | | | | |
| -5.0 | CL-SILTY CLAY (NATIVE), red/brown, dry to moist, no odor | | | | | | |
| -7.5 | | | | | | | 0 |
| -10.0 | END OF HOLE @ 9.0ft BGS | -9.0 | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-07)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-7
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | CONCRETE FLOOR SLAB | -0.5 | | | | | |
| -2.5 | FILL-SAND, trace silt, fine grained sand, brown | -2.5 | | | | | |
| -5.0 | CL-SILTY CLAY (NATIVE), red/brown, dry to moist, no odor | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | END OF HOLE @ 9.0ft BGS | -9.0 | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

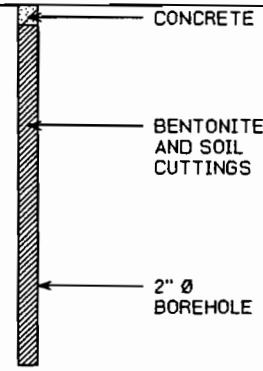
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-08)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-8
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|--|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | CONCRETE FLOOR SLAB FILL-SAND and SILT, fine grained sand, dark stained | -0.4 |  | | | | 0 |
| -5.0 | SM-SILTY SAND, with some red/brown clay CL-SILTY CLAY (NATIVE), red/brown, dry to moist, no odor | -3.3 -3.3 | | | | | 0 |
| -7.5 | | | | | | | |
| -10.0 | END OF HOLE @ 9.0ft BGS | -9.0 | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

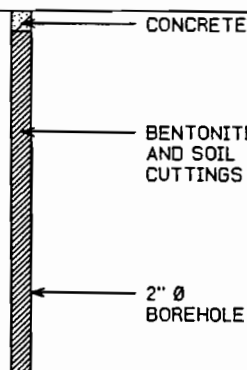
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-09)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-9
DATE COMPLETED: FEBRUARY 7, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | CONCRETE FLOOR SLAB FILL-SAND and SILT, fine grained sand, dark stained | -0.4 |  | 007 | X | | 0 |
| -5.0 | SM-SILTY SAND, with some red/brown clay CL-SILTY CLAY (NATIVE), red/brown, dry to moist, no odor | -3.3 -3.3 | | | | | |
| -7.5 | | | | | | | |
| -10.0 | END OF HOLE @ 9.0ft BGS | -9.0 | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
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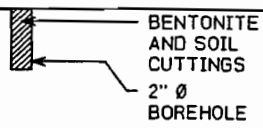
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-10)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-10
 DATE COMPLETED: FEBRUARY 7, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|----------------------|--|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | WOOD BLOCKS CONCRETE FLOOR SLAB FILL-SAND, SILT and CLAY, brown, dry to moist, no odor - refusal (@ 1.5ft BGS) END OF HOLE @ 1.5ft BGS | -0.4 -0.6 -1.5 |  BENTONITE AND SOIL CUTTINGS 2" Ø BOREHOLE | | | | 0 |
| -5.0 | | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-11)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-11
 DATE COMPLETED: FEBRUARY 8, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | CONCRETE FLOOR SLAB | -4 | | | | | 0 |
| -5.0 | CL-SILTY CLAY (NATIVE), with some to trace fine gravel, red/brown, dry to moist, no odor | | | | | | 0 |
| -7.5 | | | | | | | |
| -8.0 | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

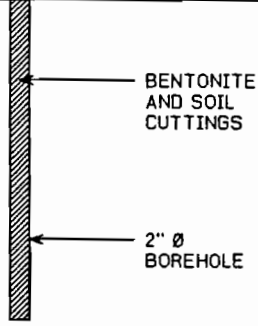
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-12)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-12
DATE COMPLETED: FEBRUARY 8, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | CONCRETE FLOOR SLAB | -.4 | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), with some to trace fine gravel, red/brown, dry to moist, no odor | |  | | | | 0 |
| -5.0 | | | | | | 0 | |
| -7.5 | | | | | | | |
| | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

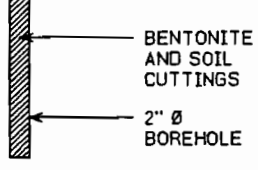
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-13)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-13
DATE COMPLETED: FEBRUARY 8, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ROCKS IN MACHINE PIT | | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), with trace fine gravel, olive, brown, moist - chemical odor (3.0 to 4.0ft BGS) - refusal (@ 4.0ft BGS) | -1.0 |  | 008 | X | | 3-4 |
| -5.0 | END OF HOLE @ 4.0ft BGS | -4.0 | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

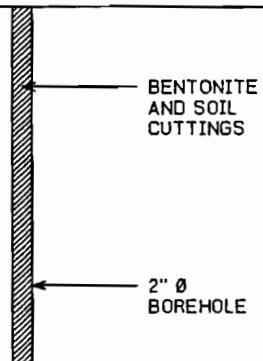
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-14)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-14
 DATE COMPLETED: FEBRUARY 8, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-SANDY GRAVEL, medium to fine grained, wet | -1.4 |  | | | | |
| -5.0 | CL-SILTY CLAY (TILL), with silt seams, with some medium to fine gravel, hard, no odor | | | | | | |
| -7.5 | | | | | | | |
| -9.0 | - refusal (@ 9.0ft BGS) | -9.0 | | 009 | X | | 0 |
| -10.0 | END OF HOLE @ 9.0ft BGS | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-15)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-15
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------------------------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-SANDY GRAVEL, SAND-GRAVEL MIXTURES, with some silt, trace clay, concrete debris, medium to fine grained, no odor - wet (@ 8.0ft BGS) | | | | | | |
| -5.0 | | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -11.5 | | | | END OF HOLE @ 11.5ft BGS | -11.5 | | 010 |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-16)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-16
DATE COMPLETED: FEBRUARY 9, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | | |
|------------------|---|-------------------|-------------------------|--------|-------|-----------|--------------|---|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) | |
| | GROUND SURFACE | 0.0 | | | | | | |
| -2.5 | FILL-SANDY GRAVEL MIXTURE, some clay, medium to fine grained, brown, no odor | | | | | | 0 | |
| | - wet (@ 3.5ft BGS) | | | | | | | |
| -5.0 | CL-SILTY CLAY (NATIVE), trace fine sand and gravel, red/brown, wet, no odor | -4.0 | | | | | | 0 |
| -7.5 | | | | | | | | |
| | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | | |
| -10.0 | | | | | | | | |
| -12.5 | | | | | | | | |
| -15.0 | | | | | | | | |
| -17.5 | | | | | | | | |
| -20.0 | | | | | | | | |
| -22.5 | | | | | | | | |
| -25.0 | | | | | | | | |
| -27.5 | | | | | | | | |
| -30.0 | | | | | | | | |
| -32.5 | | | | | | | | |

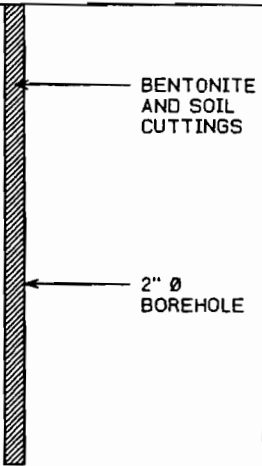
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-17)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-17
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|--|--|-------------------|---|--------|-------|----------|--------------|
| | | | | NUMBER | STATE | N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 -5.0 -7.5 -10.0 | FILL-SANDY GRAVEL, SAND-GRAVEL MIXTURES, with some silt, trace clay, concrete debris, medium to fine grained, no odor - wet (@ 8.0ft BGS) | |  | | | | 0 |
| -10.0 -12.5 -15.0 -17.5 -20.0 -22.5 -25.0 -27.5 -30.0 -32.5 | END OF HOLE @ 11.5ft BGS | -11.5 | | | | | 0 |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-18)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-18
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | | |
|------------------|--|-------------------|-------------------------|--------|-------|-----------|--------------|-----|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) | |
| | GROUND SURFACE | 0.0 | | | | | | |
| -2.5 | FILL-SANDY SILT, GRAVEL, BRICK, CINDERS, and wood fragments | | | | | | | |
| -5.0 | - chemical odor (@ 6.0ft BGS) | | | | | | | |
| -7.5 | CL-SILTY CLAY (NATIVE), with trace fine sand and gravel, moist to wet | -6.5 | | | (Oil) | X | | 1.2 |
| -8.0 | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | | |
| -10.0 | | | | | | | | |
| -12.5 | | | | | | | | |
| -15.0 | | | | | | | | |
| -17.5 | | | | | | | | |
| -20.0 | | | | | | | | |
| -22.5 | | | | | | | | |
| -25.0 | | | | | | | | |
| -27.5 | | | | | | | | |
| -30.0 | | | | | | | | |
| -32.5 | | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-19)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-19
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | | |
|------------------|---|-------------------|-------------------------|--------|-------|-----------|--------------|---|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) | |
| | GROUND SURFACE | 0.0 | | | | | | |
| -2.5 | FILL-SAND-GRAVEL MIXTURES, with some silt and clay, tan, brown | | | | | | 0 | |
| -5.0 | CL-SILTY CLAY (NATIVE), with trace fine sand, red/brown, moist, no odor | -3.0 | | | | | | |
| -7.5 | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | | 0 |
| -10.0 | | | | | | | | |
| -12.5 | | | | | | | | |
| -15.0 | | | | | | | | |
| -17.5 | | | | | | | | |
| -20.0 | | | | | | | | |
| -22.5 | | | | | | | | |
| -25.0 | | | | | | | | |
| -27.5 | | | | | | | | |
| -30.0 | | | | | | | | |
| -32.5 | | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-20)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-20
DATE COMPLETED: FEBRUARY 9, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-CONCRETE DEBRIS, and medium fine brown sand and gravel | | | | | | 0 |
| -5.0 | CL-SILTY CLAY (NATIVE), with trace fine sand, red/brown, moist, no odor | -2.5 | | | | | |
| -7.5 | | | | | | | 0 |
| -8.0 | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-21)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-21
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-CONCRETE DEBRIS, and medium fine brown sand and gravel | | | | | | 0 |
| -5.0 | CL-SILTY CLAY (NATIVE), with trace fine sand, red/brown, moist, no odor | -2.5 | | | | | |
| -7.5 | | | | | | | 0 |
| -8.0 | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

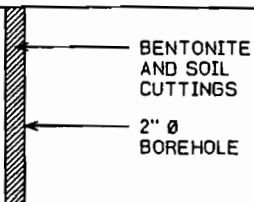
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-22)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-22
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-GRAVEL and SAND, concrete debris, brown, gray | |  | | | | |
| | CL-SILTY CLAY (NATIVE), with trace fine sand, hard, dry to moist, no odor | -2.5 | | | | | |
| -5.0 | - stained layer (@ 4.7ft BGS) - refusal (@ 5.0ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 | | 012 | X | | 0 |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-23)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-23
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-GRAVEL and SAND, concrete debris, brown, gray | | | | | | |
| | CL-SILTY CLAY (NATIVE), with trace fine sand, hard, dry to moist, no odor | -2.5 | | | | | |
| -5.0 | - refusal (@ 5.0ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 | | | | | 0 |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-24)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-24
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | FILL-GRAVEL and SAND, concrete debris, brown, gray | | | | | | |
| -5.0 | CL-SILTY CLAY (NATIVE), with trace fine sand, hard, dry to moist, no odor | -2.5 | | | | | |
| -5.0 | - refusal (@ 5.0ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 | | | | | 0 |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

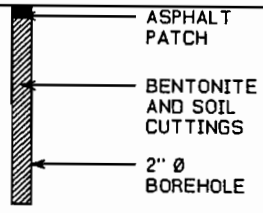
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-25)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-25
DATE COMPLETED: FEBRUARY 9, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -0.3 |  | | | | 0 |
| | GM-SANDY GRAVEL (NATIVE), with silt | -2.0 | | | | | |
| -2.5 | CL-SILTY CLAY, with trace fine sand, dense, red/brown, dry to moist, no odor | -5.0 | | | | | |
| -5.0 | END OF HOLE @ 5.0ft BGS | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

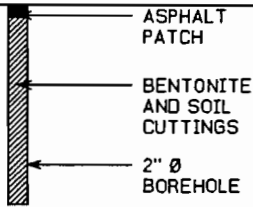
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-26)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-26
DATE COMPLETED: FEBRUARY 9, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -0.3 |  | | | | 0 |
| | GM-SANDY GRAVEL (NATIVE), with silt | -2.0 | | | | | |
| -2.5 | CL-SILTY CLAY, with trace fine sand, dense, red/brown, dry to moist, no odor | -5.0 | | | | | |
| -5.0 | END OF HOLE @ 5.0ft BGS | -5.0 | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

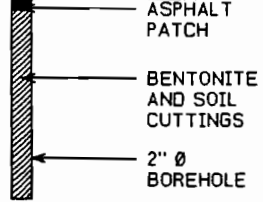
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-27)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-27
 DATE COMPLETED: FEBRUARY 9, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|--|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -0.3 |  | | | | |
| | GM-SANDY GRAVEL (NATIVE), with silt | | | | | | |
| -2.5 | CL-SILTY CLAY, with trace fine sand, dense, red/brown, dry to moist, no odor | -2.0 | | | | | |
| -5.0 | - slightly dark stained soils, no odor (@ 4.5ft BGS) END OF HOLE @ 5.0ft BGS | -5.0 | | | 013 | | 0 |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

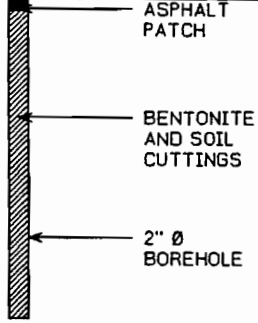
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-28)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-28
 DATE COMPLETED: FEBRUARY 10, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | ASPHALT | -0.3 |  | | | | 0 |
| | FILL-CLAY and BRICK DEBRIS, wet, no odor | -1.5 | | | | | |
| | CL-SILTY CLAY (NATIVE), with trace fine sand, dense, red/brown, dry, no odor | | | | | | |
| -5.0 | | | | | | | 0 |
| -7.5 | | | | | | | |
| | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

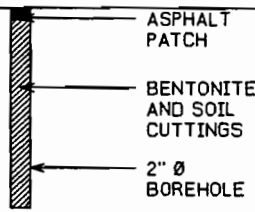
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-29)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-29
DATE COMPLETED: FEBRUARY 10, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|--------------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -0.4 |  | 014 | X | | 2 |
| | FILL-SAND and GRAVEL, with brick debris, black | -1.0 | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), with trace fine sand, dense, red/brown, dry, no odor | -4.0 | | | | | |
| -5.0 | SM/CL-SANDY CLAY, some silt, brown, dry - refusal (@ 5.0ft BGS) | -5.0 | | | | | |
| | END OF HOLE @ 5.0ft BGS | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-30)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-30
 DATE COMPLETED: FEBRUARY 10, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------|--------------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -.3 | | 015 | | | 0 |
| | FILL-CINDER and BRICK DEBRIS, black stained soils | -1.3 | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), with trace sand and gravel, dense, brown, dry, no odor - with some sand, red/brown, no odor | | | | | | |
| -5.0 | | | | | | | |
| -7.5 | - moist (@ 8.0ft BGS) | -8.0 | | | | | |
| | END OF HOLE @ 8.0ft BGS | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-31)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-31
DATE COMPLETED: FEBRUARY 10, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -0.3 | | | | | 0 |
| | FILL-CINDERS and GRAVEL, gray/black | -1.5 | | | | | |
| -2.5 | SM-SANDY SILT (NATIVE), with some clay and gravel | -4.0 | | | | | |
| -5.0 | CL-SILTY CLAY, with some fine sand, trace gravel, red/brown and gray | -8.0 | | | | | 0 |
| -7.5 | - more gravel, dense, moist, no odor (@ 7.0ft BGS) | -8.0 | | | | | |
| | END OF HOLE @ 8.0ft BGS | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ∇ STATIC WATER LEVEL ∇
 CHEMICAL ANALYSIS \bigcirc

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-32)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-32
DATE COMPLETED: FEBRUARY 10, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|-------------------|-------------------------|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -.3 | | | | | 0 |
| | FILL-GRAVELLY SAND and CINDER | -1.0 | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), with trace gravel and sand - red/brown | | | | | | |
| -5.0 | SP-GRAVELLY SAND, brown, moist - 4" shale layer and clay (@ 6.5ft BGS) - dry, no odor (@ 7.0ft BGS) | -5.0 | | | | | 0 |
| -7.5 | END OF HOLE @ 8.0ft BGS | -8.0 | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ∇ STATIC WATER LEVEL ∇
 CHEMICAL ANALYSIS \bigcirc

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-33)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-33
DATE COMPLETED: FEBRUARY 10, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | | |
|------------------|---|-------------------|---|--------|-------|-----------|--------------|---|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) | |
| | GROUND SURFACE | 0.0 | | | | | | |
| | ASPHALT | -0.3 | <p style="margin-left: 20px;">ASPHALT PATCH</p> <p style="margin-left: 20px;">BENTONITE AND SOIL CUTTINGS</p> <p style="margin-left: 20px;">2" Ø BOREHOLE</p> | | | | 0 | |
| | FILL-CINDERS, SLAG, GRAVEL and SAND, hard, black | -1.0 | | | | | | |
| -2.5 | CL-SILTY CLAY (NATIVE), with trace fine gravel, red/brown | | | | | | | |
| | SM-SILTY SAND, with clay, brown, dry, no odor | -4.0 | | | | | | 0 |
| -5.0 | - refusal (@ 6.0ft BGS) | -6.0 | | | | | | |
| | END OF HOLE @ 6.0ft BGS | | | | | | | |
| -7.5 | | | | | | | | |
| -10.0 | | | | | | | | |
| -12.5 | | | | | | | | |
| -15.0 | | | | | | | | |
| -17.5 | | | | | | | | |
| -20.0 | | | | | | | | |
| -22.5 | | | | | | | | |
| -25.0 | | | | | | | | |
| -27.5 | | | | | | | | |
| -30.0 | | | | | | | | |
| -32.5 | | | | | | | | |

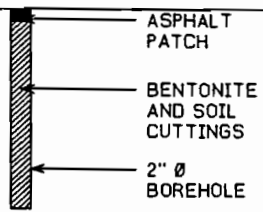
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-34)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-34
DATE COMPLETED: FEBRUARY 10, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|--|-------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| | ASPHALT | -0.3 |  | | | | |
| | FILL - CINDERS, SLAG, GRAVEL and SAND, hard, black | -1.0 | | | | | 0 |
| -2.5 | CL-SILTY CLAY (NATIVE), with trace fine gravel, red/brown | | | | | | |
| -5.0 | SM-SILTY SAND, with clay, brown, dry, no odor - refusal (@ 5.0ft BGS) | -4.0 -5.0 | | | | | |
| | END OF HOLE @ 5.0ft BGS | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

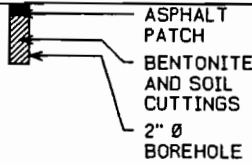
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-35)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
 PROJECT NUMBER: 14791
 CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
 LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-35
 DATE COMPLETED: FEBRUARY 10, 2000
 DRILLING METHOD: DIRECT PUSH
 CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|----------------------|---|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | 'N' VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | ASPHALT FILL-GRAVELLY SAND, brick debris CL-SILTY CLAY (NATIVE), with rock fragments, dense, brown, dry, no odor - refusal (@ 1.5ft BGS) END OF HOLE @ 1.5ft BGS | -0.3 -0.7 -1.5 |  ASPHALT PATCH BENTONITE AND SOIL CUTTINGS 2" Ø BOREHOLE | | | | 0 |
| -5.0 | | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

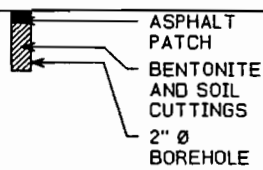
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-36)
Page 1 of 1

PROJECT NAME: BUFFALO HOWDEN INC.
PROJECT NUMBER: 14791
CLIENT: HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR
LOCATION: 490 BROADWAY, BUFFALO, NEW YORK

HOLE DESIGNATION: SB-36
DATE COMPLETED: FEBRUARY 10, 2000
DRILLING METHOD: DIRECT PUSH
CRA SUPERVISOR: D. STEINER

| DEPTH ft. BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft. AMSL | MONITOR INSTALLATION | SAMPLE | | | |
|------------------|---|----------------------|--|--------|-------|-----------|--------------|
| | | | | NUMBER | STATE | "N" VALUE | PID (ppm) |
| | GROUND SURFACE | 0.0 | | | | | |
| -2.5 | <div style="border: 1px solid black; padding: 2px;"> ASPHALT FILL-GRAVELLY SAND, brick debris CL-SILTY CLAY (NATIVE), with rock fragments, dense, brown, dry, no odor - refusal (@ 1.5ft BGS) END OF HOLE @ 1.5ft BGS </div> | -0.3 -0.7 -1.5 |  | | | | 0 |
| -5.0 | | | | | | | |
| -7.5 | | | | | | | |
| -10.0 | | | | | | | |
| -12.5 | | | | | | | |
| -15.0 | | | | | | | |
| -17.5 | | | | | | | |
| -20.0 | | | | | | | |
| -22.5 | | | | | | | |
| -25.0 | | | | | | | |
| -27.5 | | | | | | | |
| -30.0 | | | | | | | |
| -32.5 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

APPENDIX D
DATA VALIDATION REPORT



CONESTOGA-ROVERS & ASSOCIATES
2055 Niagara Falls Blvd., Suite Three
Niagara Falls, NY 14304

TELEPHONE: (716) 297-6150
FAX: (716) 297-2265

MEMORANDUM

TO: Carol Dunnigan REF. NO.: 14791
FROM: Susan Scrocchi/tlp/js/1^{SS} DATE: March 21, 2000
RE: **Analytical Data Assessment and Validation**
Former Buffalo Forge Plant No. 1
Howden Buffalo, Inc.
Buffalo, New York

1.0 OVERVIEW

The following details the assessment and validation of analytical results reported by Severn Trent Laboratories (STL) (formerly Quanterra, Inc.) for 14 soil samples and 3 water samples collected in February 2000 at Howden Buffalo, Inc., (former Buffalo Forge Plant No. 1) Site located in Buffalo, NY. The samples were analyzed for the following:

| <i>Parameters</i> | <i>Methodology¹</i> |
|--|--------------------------------|
| Target Compound List (TCL) Volatile Organic Compounds (VOCs) | SW-846 8260 |
| TCL Semi-Volatile Organic Compounds (SVOCs) | SW-846 8270 |
| Polychlorinated Biphenyls (PCBs) | SW-846 8082 |
| Target Analyte List (TAL) Metals | SW-846 6010/7470/7471 |
| Cyanide | SW-846 9012 |
| Site-Specific (SS) VOCs | SW-846 8260 |

A sample collection and analysis summary is presented in Table 1. The analytical results are summarized in Table 2A-2C. A review of the final sample results and supporting Quality Assurance/Quality Control (QA/QC) results was performed based on information obtained from the Chain of Custody forms, finished report forms, blank data, and recovery data for matrix, blank, and surrogate spikes.

The QA/QC criteria used to assess these data are outlined in the methods and the following:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", February 1994, EPA 540/R-94/012; and

¹ Referenced from "Test Methods for Evaluating Solid Waste Physical/Chemical Methods", USEPA SW-846, 3rd Edit, 1994 (w/rev.).

- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", February 1994, EPA 540/R-94-013.

2.0 SAMPLE HOLDING TIMES

The sample holding time criteria for this program were as follows:

| <i>Parameter</i> | <i>Holding Time</i> | |
|----------------------------|---|--|
| | <i>Water</i> | <i>Soil</i> |
| TCL VOCs/SS VOCs | 14 days from collection to analysis | 14 days from collection to analysis |
| TCL SVOCs | 7 days from collection to extraction 40 days from extraction to analysis | 14 days from collection to extraction 40 days from extraction to analysis |
| TCL PCBs | 7 days from collection to extraction 40 days from extraction to analysis | 14 days from collection to extraction 40 days from extraction to analysis |
| TAL Metal (except Mercury) | 180 days from collection to analysis | 180 days from collection to analysis |
| Mercury | 28 days from collection to analysis | 28 days from collection to analysis |
| Cyanide | 14 days from collection to analysis | 14 days from collection to analysis |

All samples were extracted and/or analyzed within the above holding times with the exception of some parameters which were requested past the recommended holding times. The following exceedances were observed:

- i) Three soil samples were extracted for SVOCs on the 16th day. All associated positive results were qualified as estimated (see Table 3) and all non-detect results were judged to be acceptable based on the minor extent of the exceedance;
- ii) Three soil samples were extracted for PCBs on the 16th day. All associated results were non-detect and judged to be acceptable based on the minor extent of the exceedance; and
- iii) Three cyanide analyses were performed on the 19th day after collection. All associated positive results were qualified as estimated (see Table 3) and all non-detect results were judged to be acceptable based on the minor extent of the exceedance.

3.0 SURROGATE SPIKE RECOVERY - VOCs, SVOCs, PCBs

Surrogate compounds were added to all samples prior to preparative extraction and/or analysis to assess the effects of individual sample matrices on analytical efficiency.

The appropriate surrogate compounds were added to all samples and all recoveries were acceptable indicating adequate analytical efficiency with the exception of sample S-14791-DRS-015 exhibiting a high PCB surrogate result. The results for this sample were non-detect and would not have been impacted by the implied high bias.

4.0 BLANK SPIKE (BS) ANALYSES

BSs are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

BSs were prepared and analyzed for all analyses. All recoveries were acceptable indicating adequate analyte accuracy.

5.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples were prepared and analyzed for all parameters to assess analytical accuracy and precision. All spike recoveries and Relative Percent Difference (RPD) values were acceptable, indicating adequate analytical precision and accuracy with the exception of several outlying metal recoveries and RPD values. All associated positive metals data were qualified as estimated (see Table 4). Non-detect results with associated low recoveries were qualified as estimated to reflect the implied low bias (see Table 4) and non-detect results with associated high recoveries would not have been impacted by the implied high bias.

6.0 LABORATORY BLANK ANALYSES

Contamination introduced by the laboratory is characterized by the analysis of laboratory blanks. These blanks are prepared from deionized water and are extracted and/or analyzed with each batch of samples.

Laboratory blanks were prepared and analyzed at the required frequency for all parameters. The blank results were generally non-detect for the compounds of interest with the exception of low concentrations of various metals. All associated sample results with concentrations comparable to the concentrations present in the blanks were qualified as non-detect (see Table 5).

7.0 FIELD QA/QC

A rinse blank and a trip blank were submitted to evaluate the possibility of cross-contamination during sample shipment and storage. All results were non-detect for the analytes of interest with the following exceptions:

- i) low levels of acetone and 2-butanone were present in the rinse blank and the trip blank. All associated sample results with similar concentrations were qualified as non-detect (see Table 6); and
- ii) low levels of various metals were present in the rinse blank. All associated sample results with similar concentrations were qualified as non-detect (see Table 6).

8.0 CONCLUSION

The data produced by STL are acceptable with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Sample I.D. | Soil Boring Number | Location | Sample Date | Analyses |
|------------------|--------------------|---|-------------|--|
| S-14791-DRS-001 | SB-1 | Transformer Room | 02/07/00 | PCBs |
| S-14791-DRS-003 | SB-2 | Paint Storage Room | 02/07/00 | TCL VOCs, TCL SVOCs, PCBs, TAL Metals, Cyanide |
| S-14791-DRS-004 | SB-3 | Machine Shop Floor Assembly Area | 02/07/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-005 | SB-4 | Machine Shop Floor Assembly Area | 02/07/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-006 | SB-5 | Machine Shop Floor Assembly Area | 02/07/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-007 | SB-9 | Press Pit | 02/07/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-008 | SB-13 | Machine Pit in Sept. 220 | 02/08/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-009 | SB-14 | Paint Grate | 02/08/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-010 | SB-15 | 20,000 UST in Broadway Yard | 02/09/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-011 | SB-18 | 20,000 UST in Broadway Yard | 02/09/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-012 | SB-22 | AST in Sycamore Yard | 02/09/00 | STARS-gasoline |
| S-14791-DRS-013 | SB-27 | Hazardous Waste Storage Area in Sycamore Yard | 02/09/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-014 | SB-29 | Parking Area Between Broadway and Rey St. | 02/10/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| S-14791-DRS-015 | SB-30 | Parking Area Between Rey and George St. | 02/10/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| W-14791-DRS-001 | - | Water Sample #1 - Department 370 | 02/09/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| W-14791-DRS-002 | - | Water Sample #2 - Mortimer Street Entrance | 02/09/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| W-14791-DRS-003 | - | Water Sample #3 - Department 100 | 02/09/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| RB-14791-DRS-001 | - | - | 02/10/00 | TCL VOCs, TCL SVOCs, PCBs, TAL METALS, Cyanide |
| Trip Blank | - | - | 02/09/00 | TCL VOCs |

Notes:

- AST Aboveground Storage Unit.
- PCBs Polychlorinated Biphenyls.
- STARS Spill Technology and Remediation Systems.
- SVOCs Semi-Volatile Organic Compounds.
- TAL Target Analyte List.
- TCL Target Compound List.
- UST Underground Storage Unit.
- VOCs Volatile Organic Compounds.

TABLE 3
 QUALIFIED SAMPLE DATA DUE TO HOLDING TIME EXCEEDANCES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Parameter | Sample ID | Holding Time (Days) | Holding Time Criteria (Days) | Analyte | Sample Result | Units | Qualifier |
|-----------|-----------------|---------------------|------------------------------|------------------------|---------------|-------|-----------|
| SVOCs | S-14791-DRS-010 | 16 | 14 | Acenaphthene | 270 J | µg/Kg | * |
| | | | | Anthracene | 580 J | µg/Kg | * |
| | | | | Benzo(a)anthracene | 1100 | µg/Kg | J |
| | | | | Benzo(a)pyrene | 760 J | µg/Kg | * |
| | | | | Benzo(b)fluoranthene | 840 | µg/Kg | J |
| | | | | Benzo(k)fluoranthene | 850 | µg/Kg | J |
| | | | | Carbazole | 290 J | µg/Kg | * |
| | | | | Chrysene | 1200 | µg/Kg | J |
| | | | | Dibenzofuran | 300 J | µg/Kg | * |
| | | | | Fluoranthene | 2500 | µg/Kg | J |
| | | | | Fluorene | 420 J | µg/Kg | * |
| | | | | 2-Methylnaphthalene | 310 J | µg/Kg | * |
| | | | | Phenanthrene | 2800 | µg/Kg | J |
| | | | | Pyrene | 1500 | µg/Kg | J |
| SVOCs | S-14791-DRS-011 | 16 | 14 | Acenaphthylene | 190 J | µg/Kg | * |
| | | | | Anthracene | 180 J | µg/Kg | * |
| | | | | Benzo(a)anthracene | 870 | µg/Kg | J |
| | | | | Benzo(a)pyrene | 990 | µg/Kg | J |
| | | | | Benzo(b)fluoranthene | 1000 | µg/Kg | J |
| | | | | Benzo(k)fluoranthene | 770 | µg/Kg | J |
| | | | | Benzo(g,h,i)perylene | 270 J | µg/Kg | * |
| | | | | Chrysene | 900 | µg/Kg | J |
| | | | | Fluoranthene | 2000 | µg/Kg | J |
| | | | | Indeno(1,2,3-cd)pyrene | 350 J | µg/Kg | * |
| | | | | Phenanthrene | 580 | µg/Kg | J |
| | | | | Pyrene | 1200 | µg/Kg | J |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

| Location: | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-9 | SB-13 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | S-14791-DRS-001 | S-14791-DRS-003 | S-14791-DRS-004 | S-14791-DRS-005 | S-14791-DRS-006 | S-14791-DRS-007 | S-14791-DRS-008 |
| Sample Date: | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/08/2000 |
| Parameters | | | | | | | |
| Units | | | | | | | |
| Volatiles Organics | | | | | | | |
| Bromomethane | 13 U | 12 U | 12 U | 12 U | 13 U | 11 U | 12 U |
| 2-Butanone | 25 U | 24 U | 24 U | 25 U | 27 U | 23 U | 24 U |
| Carbon disulfide | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 7.2 | 6.0 U |
| Carbon tetrachloride | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Chlorobenzene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Dibromochloromethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Chloroethane | 13 U | 12 U | 12 U | 12 U | 13 U | 11 U | 12 U |
| Chloroform | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Chloromethane | 13 U | 12 U | 12 U | 12 U | 13 U | 11 U | 12 U |
| 1,1-Dichloroethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 1,2-Dichloroethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 1,1-Dichloroethene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 1,2-Dichloropropane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| cis-1,3-Dichloropropene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| trans-1,3-Dichloropropene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Ethylbenzene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 2-Hexanone | 25 U | 24 U | 24 U | 25 U | 27 U | 23 U | 24 U |
| Methylene chloride | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 4-Methyl-2-pentanone | 25 U | 24 U | 24 U | 25 U | 27 U | 23 U | 24 U |
| Styrene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 1,1,2,2-Tetrachloroethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Tetrachloroethene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Toluene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 1,1,1-Trichloroethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| 1,1,2-Trichloroethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Trichloroethene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Vinyl chloride | 13 U | 12 U | 12 U | 12 U | 13 U | 11 U | 12 U |
| Xylenes (total) | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| cis-1,2-Dichloroethene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| trans-1,2-Dichloroethene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Acetone | 25 U | 24 U | 24 U | 25 U | 27 U | 23 U | 24 U |
| Benzene | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Bromodichloromethane | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |
| Bromoform | 6.3 U | 6.0 U | 6.0 U | 6.2 U | 6.7 U | 5.7 U | 6.0 U |

ANALYTICAL RESULTS SUMMARY - SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.
FEBRUARY 2000

| Location | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-9 | SB-13 |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | S-14791-DRS-001 | S-14791-DRS-003 | S-14791-DRS-004 | S-14791-DRS-005 | S-14791-DRS-006 | S-14791-DRS-007 | S-14791-DRS-008 |
| Sample Date: | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/08/2000 |
| Parameters | | | | | | | |
| Semi-volatile Organics | | | | | | | |
| Acenaphthene | 410 U | 610 | 320 J | 410 U | 560 | 3700 U | 3900 U |
| Acenaphthylene | 410 U | 1100 | 1900 | 410 U | 38 J | 3700 U | 3900 U |
| Anthracene | 410 U | 1500 | 1300 | 4100 U | 250 J | 3700 U | 3900 U |
| Benzo(a)anthracene | 410 U | 1500 | 1200 | 4100 U | 200 J | 11000 | 3900 U |
| Benzo(a)pyrene | 410 U | 1300 | 890 | 410 U | 440 U | 7500 | 3900 U |
| Benzo(b)fluoranthene | 410 U | 400 U | 400 U | 4100 U | 440 U | 15000 | 3900 U |
| Benzo(k)fluoranthene | 410 U | 400 U | 400 U | 4100 U | 440 U | 7700 | 3900 U |
| Bis(2-Chloroethoxy)methane | 410 U | 400 U | 400 U | 410 U | 440 U | 9300 | 3900 U |
| bis(2-Chlorosthyl)ether | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| bis(2-Ethylhexyl)phthalate | 410 U | 400 U | 400 U | 4100 U | 440 U | 3700 U | 3900 U |
| 4-Bromophenyl phenyl ether | 410 U | 400 U | 400 U | 4100 U | 440 U | 3700 U | 3900 U |
| Butyl benzyl phthalate | 410 U | 560 | 410 U | 410 U | 440 U | 3700 U | 3900 U |
| Carbazole | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 4-Chloroaniline | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 4-Chloro-3-methylphenol | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2-Chloronaphthalene | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2-Chlorophenol | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 4-Chlorophenyl phenyl ether | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Chrysene | 410 U | 1900 | 1900 | 4100 U | 190 J | 14000 | 3900 U |
| Dibenz(a,h)anthracene | 410 U | 280 J | 4100 U | 4100 U | 440 U | 2700 J | 3900 U |
| Dibenzofuran | 410 U | 500 | 180 J | 410 U | 540 | 3700 U | 3900 U |
| 1,2-Dichlorobenzene | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 1,3-Dichlorobenzene | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 1,4-Dichlorobenzene | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 3,3'-Dichlorobenzidine | 2000 U | 1900 U | 2000 U | 20000 U | 2200 U | 18000 U | 19000 U |
| 2,4-Dichlorophenol | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Diethyl phthalate | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2,4-Dimethylphenol | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Dimethyl phthalate | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Di-n-butyl phthalate | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Di-n-octyl phthalate | 410 U | 400 U | 400 U | 4100 U | 440 U | 3700 U | 3900 U |
| 2,4-Dinitrophenol | 2000 U | 1900 U | 2000 U | 2000 U | 2200 U | 18000 U | 19000 U |
| 4,6-Dinitro-2-methylphenol | 2000 U | 1900 U | 2000 U | 2000 U | 2200 U | 18000 U | 19000 U |
| 2,4-Dinitrotoluene | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2,6-Dinitrotoluene | 410 U | 400 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Fluoranthene | 410 U | 3300 | 410 U | 410 U | 850 | 14000 | 2100 J |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.
FEBRUARY 2000

| Location | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-9 | SB-13 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | S-14791-DRS-001 | S-14791-DRS-003 | S-14791-DRS-004 | S-14791-DRS-005 | S-14791-DRS-006 | S-14791-DRS-007 | S-14791-DRS-008 |
| Sample Date: | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/08/2000 |
| Parameters | Units | | | | | | |
| Semi-volatile Organics (Cont'd) | | | | | | | |
| Fluorene | -- | 410 U | 670 | 340 J | 370 J | 3700 U | 3900 U |
| Hexachlorobenzene | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Hexachlorobutadiene | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Hexachlorocyclopentadiene | -- | 2000 U | 1900 U | 2000 U | 2200 U | 18000 U | 19000 U |
| Hexachloroethane | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Indeno(1,2,3-cd)pyrene | -- | 410 U | 870 | 4100 U | 440 U | 7900 | 3900 U |
| Isophorone | -- | 410 U | 410 U | 410 U | 440 U | 3700 U | 3900 U |
| 2-Methylnaphthalene | -- | 410 U | 290 J | 130 J | 34 J | 3700 U | 3900 U |
| 2-Methylphenol | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 3&4-Methylphenol | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Naphthalene | -- | 410 U | 900 | 93 J | 440 U | 3700 U | 3900 U |
| 2-Nitroaniline | -- | 2000 U | 1900 U | 2000 U | 2200 U | 18000 U | 19000 U |
| 3-Nitroaniline | -- | 2000 U | 1900 U | 2000 U | 2200 U | 18000 U | 19000 U |
| 4-Nitroaniline | -- | 2000 U | 1900 U | 2000 U | 2200 U | 18000 U | 19000 U |
| Nitrobenzene | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2-Nitrophenol | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 4-Nitrophenol | -- | 2000 U | 1900 U | 2000 U | 2200 U | 18000 U | 19000 U |
| N-nitroso-di-n-propylamine | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| N-nitroso-di-phenylamine | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2,2'-Oxybis(1-chloropropane) | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Pentachlorophenol | -- | 2000 U | 1900 U | 2000 U | 2200 U | 18000 U | 19000 U |
| Phenanthrene | -- | 410 U | 3300 | 1100 | 470 | 1500 J | 3000 J |
| Phenol | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| Pyrene | -- | 410 U | 2600 | 4100 U | 470 | 15000 | 18000 J |
| 1,2,4-Trichlorobenzene | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2,4,5-Trichlorophenol | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| 2,4,6-Trichlorophenol | -- | 410 U | 400 U | 410 U | 440 U | 3700 U | 3900 U |
| PCBs | | | | | | | |
| Aroclor 1016 | 38 U | 41 U | 40 U | 81 U | 44 U | 37 U | 39 U |
| Aroclor 1221 | 38 U | 41 U | 40 U | 81 U | 44 U | 37 U | 39 U |
| Aroclor 1232 | 38 U | 41 U | 40 U | 81 U | 44 U | 37 U | 39 U |
| Aroclor 1242 | 38 U | 41 U | 40 U | 81 U | 44 U | 37 U | 39 U |
| Aroclor 1248 | 38 U | 41 U | 40 U | 81 U | 44 U | 37 U | 39 U |
| Aroclor 1254 | 38 U | 41 U | 40 U | 1300 | 57 | 37 U | 400 |
| Aroclor 1260 | 38 U | 41 U | 40 U | 81 U | 44 U | 37 U | 39 U |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

| Location: | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-9 | SB-13 |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | S-14791-DRS-001 | S-14791-DRS-003 | S-14791-DRS-004 | S-14791-DRS-005 | S-14791-DRS-006 | S-14791-DRS-007 | S-14791-DRS-008 |
| Sample Date: | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/07/2000 | 02/08/2000 |
| <u>Parameters</u> | | | | | | | |
| <u>Metals</u> | | | | | | | |
| Mercury | 0.24 J | 0.18 J | 0.025 J | 0.036 J | 0.038 J | 0.019 J | 0.019 J |
| Antimony | 2.9 J | 2.5 J | 0.32 J | 0.31 J | 0.72 J | 7.2 UJ | 7.2 UJ |
| Silver | 1.3 U | 1.2 U | 1.2 U | 1.1 U | 1.1 U | 1.1 U | 1.2 U |
| Aluminum | 7200 | 10100 | 11300 | 13300 | 9770 | 7770 | 7770 |
| Arsenic | 8.1 | 6.6 | 5.3 | 4.9 | 5.6 | 5.0 | 5.0 |
| Barium | 125 | 78.5 | 87.0 | 83.7 | 27.4 | 67.7 | 67.7 |
| Beryllium | 0.47 | 0.58 | 0.57 | 0.69 | 0.40 | 0.42 | 0.42 |
| Calcium | 48200 J | 56400 J | 89400 J | 23300 J | 13500 J | 78800 J | 78800 J |
| Cadmium | 0.36 | 0.80 | 0.51 | 0.16 | 0.14 | 0.31 | 0.31 |
| Zinc | 96.9 | 85.6 | 69.5 | 73.2 | 35.9 | 55.7 | 55.7 |
| Cobalt | 8.2 | 14.2 | 10 | 10.9 | 7.2 | 7.2 | 7.2 |
| Chromium | 16.5 | 23.0 | 16.4 | 18.2 | 11.3 | 13.5 | 13.5 |
| Copper | 39.7 J | 57.0 J | 17.5 J | 24.0 J | 15.5 J | 15.5 J | 15.5 J |
| Iron | 22700 | 30400 | 21200 | 22600 | 21200 | 15200 | 15200 |
| Potassium | 1130 | 1270 | 2420 | 2390 | 831 | 1660 | 1660 |
| Magnesium | 14600 J | 16600 J | 29100 J | 15800 J | 2640 J | 26200 J | 26200 J |
| Manganese | 313 J | 594 J | 839 J | 372 J | 219 J | 330 J | 330 J |
| Sodium | 142 U | 172 U | 238 | 190 U | 199 U | 226 | 226 |
| Nickel | 13.6 | 27.0 | 16.4 | 19.9 | 11.4 | 15.1 | 15.1 |
| Lead | 284 | 95.6 | 20.9 | 15.7 | 42.8 | 10.2 | 10.2 |
| Selenium | 0.63 U | 1.2 U | 1.2 U | 0.67 U | 0.24 | 1.2 U | 1.2 U |
| Thallium | 0.49 | 1.2 U | 1.2 U | 1.3 U | 0.55 | 1.2 U | 1.2 U |
| Vanadium | 21.7 | 23.8 | 24.4 | 29.6 | 17.7 | 20.0 | 20.0 |
| <u>General Chemistry</u> | | | | | | | |
| Percent solids | 86.1 | 79.5 | 83.4 | 81.2 | 74.6 | 88.3 | 83.8 |
| Cyanide, total | | 0.63 U | 0.60 U | 0.62 U | 0.67 U | 0.57 U | 0.60 U |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

| Location/ Sample ID: Sample Date: | SB-14 S-14791-DRS-009 02/08/2000 | SB-15 S-14791-DRS-010 02/09/2000 | SB-18 S-14791-DRS-011 02/09/2000 | SB-22 S-14791-DRS-012 02/09/2000 | SB-27 S-14791-DRS-013 02/09/2000 | SB-29 S-14791-DRS-014 02/10/2000 | SB-30 S-14791-DRS-015 02/10/2000 |
|---|--|--|--|--|--|--|--|
| <u>Parameters</u> | | | | | | | |
| <u>Units</u> | | | | | | | |
| <u>Volatile Organics</u> | | | | | | | |
| Bromomethane | 12 U | 12 U | 15 U | 12 U | 13 U | 11 U | 12 U |
| 2-Butanone | 23 U | 23 U | 30 U | 24 U | 26 U | 23 U | 24 U |
| Carbon disulfide | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Carbon tetrachloride | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Chlorobenzene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Dibromochloromethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Chloroethane | 12 U | 12 U | 15 U | 12 U | 13 U | 11 U | 12 U |
| Chloroform | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Chloromethane | 12 U | 12 U | 15 U | 12 U | 13 U | 11 U | 12 U |
| 1,1-Dichloroethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 1,2-Dichloroethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 1,1-Dichloroethene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 1,2-Dichloropropane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| cis-1,3-Dichloropropene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| trans-1,3-Dichloropropene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Ethylbenzene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 2-Hexanone | 23 U | 23 U | 30 U | 24 U | 26 U | 23 U | 24 U |
| Methylene chloride | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 4-Methyl-2-pentanone | 23 U | 23 U | 30 U | 24 U | 26 U | 23 U | 24 U |
| Styrene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 1,1,2,2-Tetrachloroethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Tetrachloroethene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Toluene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 1,1,1-Trichloroethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| 1,1,2-Trichloroethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Trichloroethene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Vinyl chloride | 12 U | 12 U | 15 U | 12 U | 13 U | 11 U | 12 U |
| Xylenes (total) | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| cis-1,2-Dichloroethene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| trans-1,2-Dichloroethene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Acetone | 23 U | 23 U | 30 U | 24 U | 26 U | 23 U | 24 U |
| Benzene | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Bromodichloromethane | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |
| Bromoform | 5.8 U | 5.8 U | 7.4 U | 6.0 U | 6.4 U | 5.7 U | 5.9 U |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.
FEBRUARY 2000

| Location: | SB-14 | SB-15 | SB-18 | SB-22 | SB-27 | SB-29 | SB-30 |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | S-14791-DRS-009 | S-14791-DRS-010 | S-14791-DRS-011 | S-14791-DRS-012 | S-14791-DRS-013 | S-14791-DRS-014 | S-14791-DRS-015 |
| Sample Date: | 02/08/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/10/2000 | 02/10/2000 |
| Parameters | Units | | | | | | |
| <u>Semi-volatile Organics</u> | | | | | | | |
| Acenaphthene | 380 U | 270 J | 490 U | -- | 430 U | 380 U | 780 U |
| Acenaphthylene | 380 U | 820 U | 190 J | -- | 430 U | 380 U | 780 U |
| Anthracene | 380 U | 580 J | 180 J | -- | 430 U | 380 U | 290 J |
| Benzo(a)anthracene | 380 U | 1100 J | 870 J | -- | 250 J | 380 U | 1000 |
| Benzo(a)pyrene | 380 U | 760 J | 990 J | -- | 230 J | 380 U | 870 |
| Benzo(b)fluoranthene | 380 U | 840 J | 1000 J | -- | 230 J | 380 U | 830 |
| Benzo(k)fluoranthene | 380 U | 850 J | 770 J | -- | 200 J | 380 U | 710 J |
| Benzo(g,h,i)perylene | 380 U | 820 U | 270 J | -- | 430 U | 380 U | 330 J |
| bis(2-Chloroethoxy)methane | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| bis(2-Chloroethyl)ether | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| bis(2-Ethylhexyl)phthalate | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 4-Bromophenyl phenyl ether | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Butyl benzyl phthalate | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Carbazole | 380 U | 290 J | 490 U | -- | 430 U | 380 U | 780 U |
| 4-Chloroaniline | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 4-Chloro-3-methylphenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2-Chloronaphthalene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2-Chlorophenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 4-Chlorophenyl phenyl ether | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Chrysene | 380 U | 1200 J | 900 J | -- | 260 J | 380 U | 1100 |
| Dibenz(a,h)anthracene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Dibenzofuran | 380 U | 300 J | 490 U | -- | 430 U | 380 U | 780 U |
| 1,2-Dichlorobenzene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 1,3-Dichlorobenzene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 1,4-Dichlorobenzene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 3,3'-Dichlorobenzidine | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| 2,4-Dichlorophenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Diethyl phthalate | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2,4-Dimethylphenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Dimethyl phthalate | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Di-n-butyl phthalate | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Di-n-octyl phthalate | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2,4-Dinitrophenol | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| 4,6-Dinitro-2-methylphenol | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| 2,4-Dinitrotoluene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2,6-Dinitrotoluene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Fluoranthene | 380 U | 2500 J | 2000 J | -- | 650 J | 380 U | 2000 |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

| Location: | SB-14 | SB-15 | SB-18 | SB-22 | SB-27 | SB-29 | SB-30 |
|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | S-14791-DRS-009 | S-14791-DRS-010 | S-14791-DRS-011 | S-14791-DRS-012 | S-14791-DRS-013 | S-14791-DRS-014 | S-14791-DRS-015 |
| Sample Date: | 02/08/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/09/2000 | 02/10/2000 | 02/10/2000 |

Parameters Units

Semi-volatile Organics (Cont'd)

| | | | | | | | |
|------------------------------|--------|--------|--------|----|--------|--------|--------|
| Fluorene | 380 U | 420 J | 490 U | -- | 430 U | 380 U | 780 U |
| Hexachlorobenzene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Hexachlorobutadiene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Hexachlorocyclopentadiene | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| Hexachloroethane | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Indeno(1,2,3-cd)pyrene | 380 U | 820 U | 350 J | -- | 430 U | 380 U | 360 J |
| Isophorone | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2-Methylnaphthalene | 380 U | 310 J | 490 U | -- | 430 U | 380 U | 500 J |
| 2-Methylphenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 3&4-Methylphenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Naphthalene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2-Nitroaniline | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| 3-Nitroaniline | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| 4-Nitroaniline | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| Nitrobenzene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2-Nitrophenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 4-Nitrophenol | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| N-nitroso-di-n-propylamine | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| N-nitroso-di-phenylamine | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2,2'-Oxybis(1-chloropropane) | 1800 U | 4000 U | 2400 U | -- | 2100 U | 1800 U | 3800 U |
| Pentachlorophenol | 380 U | 2800 J | 580 J | -- | 360 J | 380 U | 1400 |
| Phenanthrene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| Pyrene | 380 U | 1500 J | 1200 J | -- | 360 J | 380 U | 1400 |
| 1,2,4-Trichlorobenzene | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2,4,5-Trichlorophenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |
| 2,4,6-Trichlorophenol | 380 U | 820 U | 490 U | -- | 430 U | 380 U | 780 U |

PCBs

| | | | | | | | |
|--------------|------|------|------|----|------|------|------|
| Aroclor 1016 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |
| Aroclor 1221 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |
| Aroclor 1232 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |
| Aroclor 1242 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |
| Aroclor 1248 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |
| Aroclor 1254 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |
| Aroclor 1260 | 38 U | 41 U | 49 U | -- | 43 U | 38 U | 39 U |

TABLE 2A

ANALYTICAL RESULTS SUMMARY - SOIL
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.
FEBRUARY 2000

| Location/ Sample ID: Sample Date: | SB-14 S-14791-DRS-009 02/08/2000 | SB-15 S-14791-DRS-010 02/09/2000 | SB-18 S-14791-DRS-011 02/09/2000 | SB-22 S-14791-DRS-012 02/09/2000 | SB-27 S-14791-DRS-013 02/09/2000 | SB-29 S-14791-DRS-014 02/10/2000 | SB-30 S-14791-DRS-015 02/10/2000 |
|---|--|--|--|--|--|--|--|
| Parameters | | | | | | | |
| Metals | | | | | | | |
| Mercury | 0.12 U | 0.12 U | 0.35 | -- | 1.3 | 0.014 J | 0.22 J |
| Antimony | 6.9 UJ | 0.34 | 1.3 | -- | 0.83 | 0.41 J | 29.5 J |
| Silver | 1.2 U | 1.2 U | 1.5 U | -- | 0.22 | 1.1 U | 0.10 |
| Aluminum | 4800 | 4450 | 2950 | -- | 8820 | 19400 | 3580 |
| Arsenic | 0.98 | 4.4 | 9.8 | -- | 9.5 | 6.0 | 18.0 |
| Barium | 35.5 | 33.3 | 115 | -- | 269 | 199 | 114 |
| Beryllium | 0.26 | 0.42 | 0.46 | -- | 0.53 | 1.3 | 0.54 |
| Calcium | 113000 J | 60100 | 12000 | -- | 43100 | 21700 J | 11700 J |
| Cadmium | 0.24 | 0.50 | 0.37 | -- | 0.65 | 0.52 | 0.54 |
| Zinc | 38.8 | 55.8 | 199 | -- | 246 | 95.0 | 194 |
| Cobalt | 4.0 | 4.4 | 4.7 | -- | 8.5 | 49.7 | 7.9 |
| Chromium | 8.3 | 20.6 | 6.4 | -- | 16.4 | 22.2 | 11.6 |
| Copper | 9.2 J | 28.8 J | 41.7 J | -- | 49.4 J | 20.3 J | 255 J |
| Iron | 9980 | 11500 | 11100 | -- | 17700 | 37500 | 25800 |
| Potassium | 1040 | 649 | 594 | -- | 2830 | 1640 | 466 |
| Magnesium | 38400 J | 8970 J | 2480 J | -- | 10600 J | 5540 J | 2610 J |
| Manganese | 239 J | 702 J | 112 J | -- | 677 J | 1680 J | 159 J |
| Sodium | 168 U | 121 U | 296 | -- | 406 | 914 | 150 U |
| Nickel | 7.1 | 14.0 | 8.4 | -- | 16.4 | 17.0 | 16.5 |
| Lead | 5.8 | 19.6 | 301 | -- | 419 | 93.1 | 764 |
| Selenium | 0.58 U | 0.62 U | 1.5 | -- | 0.65 U | 0.45 | 1.2 |
| Thallium | 1.2 U | 0.59 | 0.82 | -- | 0.52 | 0.43 | 1.2 U |
| Vanadium | 13.4 | 13.1 | 14.0 | -- | 21.1 | 32.9 | 12.7 |
| General Chemistry | | | | | | | |
| Percent solids | 86.8 | 85.5 | 67.1 | 83.2 | 77.7 | 87.0 | 85.1 |
| Cyanide, total | 0.58 U | 0.62 U | 0.74 U | -- | 2.6 J | 0.57 U | 0.59 U |

General Chemistry

Percent solids 86.8 85.5 67.1 83.2 77.7 87.0 85.1

Cyanide, total 0.58 U 0.62 U 0.74 U 2.6 J 0.57 U 0.59 U

Notes

- U - Not detected at or above the associated value.
- J - Estimated.
- - Not applicable.

TABLE 2B

ANALYTICAL RESULTS SUMMARY - WATER
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

Location: Water Sample #1 Water Sample #2 Water Sample #3
 Sample ID: W-14791-DRS-001 W-14791-DRS-002 W-14791-DRS-003
 Sample Date: 02/09/2000 02/09/2000 02/09/2000

Parameters

Units

Volatile Organics

| | | | |
|---------------------------|-------|-------|-------|
| Bromomethane | 10 U | 10 U | 10 U |
| 2-Butanone | 20 U | 20 U | 20 U |
| Carbon disulfide | 5.0 U | 5.0 U | 5.0 U |
| Carbon tetrachloride | 5.0 U | 5.0 U | 5.0 U |
| Chlorobenzene | 5.0 U | 5.0 U | 5.0 U |
| Dibromochloromethane | 5.0 U | 5.0 U | 5.0 U |
| Chloroethane | 10 U | 10 U | 10 U |
| Chloroform | 5.0 U | 5.0 U | 5.0 U |
| Chloromethane | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane | 5.0 U | 5.0 U | 5.0 U |
| 1,2-Dichloroethane | 5.0 U | 5.0 U | 5.0 U |
| 1,1-Dichloroethene | 5.0 U | 5.0 U | 5.0 U |
| 1,2-Dichloropropane | 5.0 U | 5.0 U | 5.0 U |
| cis-1,3-Dichloropropene | 5.0 U | 5.0 U | 5.0 U |
| trans-1,3-Dichloropropene | 5.0 U | 5.0 U | 5.0 U |
| Ethylbenzene | 5.0 U | 5.0 U | 5.0 U |
| 2-Hexanone | 20 U | 20 U | 20 U |
| Methylene chloride | 5.0 U | 5.0 U | 5.0 U |
| 4-Methyl-2-pentanone | 20 U | 20 U | 20 U |
| Styrene | 5.0 U | 5.0 U | 5.0 U |
| 1,1,2-Tetrachloroethane | 5.0 U | 5.0 U | 5.0 U |
| Tetrachloroethene | 5.0 U | 5.0 U | 5.0 U |
| Toluene | 5.0 U | 5.0 U | 5.0 U |
| 1,1,1-Trichloroethane | 5.0 U | 5.0 U | 5.0 U |
| 1,1,2-Trichloroethane | 5.0 U | 5.0 U | 5.0 U |
| Trichloroethene | 7.0 U | 5.0 U | 5.0 U |
| Vinyl chloride | 10 U | 10 U | 10 U |
| Xylenes (total) | 5.0 U | 5.0 U | 5.0 U |
| cis-1,2-Dichloroethene | 5.0 U | 5.0 U | 5.0 U |
| trans-1,2-Dichloroethene | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 20 U | 20 U | 20 U |
| Benzene | 5.0 U | 5.0 U | 5.0 U |
| Bromodichloromethane | 5.0 U | 5.0 U | 5.0 U |
| Bromoform | 5.0 U | 5.0 U | 5.0 U |

TABLE 2B

**ANALYTICAL RESULTS SUMMARY - WATER
FORMER BUFFALO FORGE PLANT NO.1
HOWDEN BUFFALO, INC.
FEBRUARY 2000**

Location: Water Sample #1 Water Sample #2 Water Sample #3
 Sample ID: W-14791-DRS-001 W-14791-DRS-002 W-14791-DRS-003
 Sample Date: 02/09/2000 02/09/2000 02/09/2000

Parameters

Units

Semi-volatile Organics

| | | | |
|-----------------------------|------|-------|--------|
| Acenaphthene | 10 U | 10 U | 10 U |
| Acenaphthylene | 10 U | 10 U | 10 U |
| Anthracene | 10 U | 10 U | 10 U |
| Benzo(a)anthracene | 10 U | 10 U | 10 U |
| Benzo(a)pyrene | 10 U | 10 U | 0.96 J |
| Benzo(b)fluoranthene | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | 10 U | 10 U | 10 U |
| Benzo(g,h,i)perylene | 10 U | 10 U | 10 U |
| bis(2-Chloroethoxy)methane | 10 U | 10 U | 10 U |
| bis(2-Chloroethyl)ether | 10 U | 10 U | 10 U |
| bis(2-Ethylhexyl)phthalate | 10 U | 10 U | 10 U |
| 4-Bromophenyl phenyl ether | 10 U | 10 U | 10 U |
| Butyl benzyl phthalate | 10 U | 10 U | 10 U |
| Carbazole | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol | 10 U | 10 U | 10 U |
| 2-Chloronaphthalene | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 U | 10 U | 10 U |
| 4-Chlorophenyl phenyl ether | 10 U | 10 U | 1.1 J |
| Chrysene | 10 U | 10 U | 10 U |
| Dibenz(a,h)anthracene | 10 U | 10 U | 10 U |
| Dibenzofuran | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 50 U | 50 U | 50 U |
| 2,4-Dichlorophenol | 10 U | 10 U | 10 U |
| Diethyl phthalate | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 U | 10 U | 10 U |
| Dimethyl phthalate | 10 U | 10 U | 10 U |
| Di-n-butyl phthalate | 10 U | 2.0 J | 10 U |
| Di-n-octyl phthalate | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 50 U | 50 U | 50 U |
| 4,6-Dinitro-2-methylphenol | 50 U | 50 U | 50 U |
| 2,4-Dinitrotoluene | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 0.95 J |
| Fluoranthene | 10 U | 10 U | 10 U |

TABLE 2B

ANALYTICAL RESULTS SUMMARY - WATER
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

Location: Water Sample #1 Water Sample #2 Water Sample #3
 Sample ID: W-14791-DRS-001 W-14791-DRS-002 W-14791-DRS-003
 Sample Date: 02/09/2000 02/09/2000 02/09/2000

Parameters

Units

Semi-volatile Organics (Cont'd)

| | | | |
|------------------------------|-------|-------|--------|
| Fluorene | 10 U | 10 U | 10 U |
| Hexachlorobenzene | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 50 U | 50 U | 50 U |
| Hexachloroethane | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 10 U |
| Isophorone | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | 10 U | 10 U | 10 U |
| 2-Methylphenol | 10 U | 10 U | 10 U |
| 3&4-Methylphenol | 10 U | 10 U | 10 U |
| Naphthalene | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 50 U | 50 U | 50 U |
| 3-Nitroaniline | 50 U | 50 U | 50 U |
| 4-Nitroaniline | 50 U | 50 U | 50 U |
| Nitrobenzene | 10 U | 10 U | 10 U |
| 2-Nitrophenol | 10 U | 10 U | 10 U |
| 4-Nitrophenol | 50 U | 50 U | 50 U |
| N-nitroso-di-n-propylamine | 10 U | 10 U | 10 U |
| N-nitroso-di-phenylamine | 10 U | 10 U | 10 U |
| 2,2'-Oxybis(1-chloropropane) | 10 U | 10 U | 10 U |
| Pentachlorophenol | 50 U | 50 U | 50 U |
| Phenanthrene | 10 U | 10 U | 10 U |
| Phenol | 10 U | 10 U | 10 U |
| Pyrene | 10 U | 10 U | 0.75 J |
| 1,2,4-Trichlorobenzene | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 10 U | 10 U | 10 U |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 10 U |
| PCBs | | | |
| Aroclor 1016 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor 1221 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor 1232 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor 1242 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor 1248 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor 1254 | 1.0 U | 1.0 U | 1.0 U |
| Aroclor 1260 | 1.0 U | 1.0 U | 1.0 U |

TABLE 2B

ANALYTICAL RESULTS SUMMARY - WATER
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

Location: Water Sample #1 Water Sample #2 Water Sample #3
 Sample ID: W-14791-DRS-001 W-14791-DRS-002 W-14791-DRS-003
 Sample Date: 02/09/2000 02/09/2000 02/09/2000

Parameters

Units

Metals

| | | | |
|-----------|--------|--------|--------|
| Mercury | 0.70 | 0.21 | 2.7 |
| Antimony | 3.2 | 5.4 | 7.4 |
| Silver | 10.0 U | 10.0 U | 0.76 |
| Aluminum | 397 | 883 | 11800 |
| Arsenic | 7.0 | 3.3 | 18.3 |
| Barium | 322 | 97.5 | 326 |
| Beryllium | 0.19 U | 0.22 U | 0.89 |
| Calcium | 50400 | 100000 | 108000 |
| Cadmium | 6.2 | 10.2 | 23.8 |
| Zinc | 2680 | 1230 | 1290 |
| Cobalt | 15.2 | 6.7 | 17.2 |
| Chromium | 9.7 U | 13.1 U | 90.2 |
| Copper | 54.5 | 61.8 | 307 |
| Iron | 69600 | 8460 | 105000 |
| Potassium | 20100 | 20000 | 17500 |
| Magnesium | 28000 | 22300 | 39700 |
| Manganese | 280 | 117 | 1850 |
| Sodium | 81700 | 333000 | 105000 |
| Nickel | 40.0 U | 40.0 U | 53.0 |
| Lead | 224 | 198 | 1320 |
| Selenium | 3.2 J | 2.5 J | 4.4 J |
| Thallium | 10.0 U | 5.3 | 10.0 U |
| Vanadium | 3.7 | 3.7 | 63.4 |

General Chemistry

Cyanide, total 10.0 U 10.0 U 10.0 U

Notes

- U - Not detected at or above the associated value.
- J - Estimated.
- - Not applicable.

TABLE 2C

SOIL ANALYTICAL RESULTS SUMMARY
 FORMER BUFFALO FORGE PLANT NO.1
 HOWDEN BUFFALO, INC.
 FEBRUARY 2000

Location: SB-22
 Sample ID: S-14791-DRS-012
 Sample Date: 02/09/2000

Parameters

Units

STARS-Gasoline

| | | |
|-------------------------|-------|-------|
| BENZENE | ug/kg | 6.0 U |
| ETHYLBENZENE | ug/kg | 6.0 U |
| TOLUENE | ug/kg | 1.9 J |
| XYLENES (TOTAL) | ug/kg | 6.0 U |
| ISOPROPYLBENZENE | ug/kg | 24 U |
| N-PROPYLBENZENE | ug/kg | 24 U |
| P-ISOPROPYL TOLUENE | ug/kg | 24 U |
| 1,2,4-TRIMETHYLBENZENE | ug/kg | 24 U |
| 1,3,5-TRIMETHYLBENZENE | ug/kg | 24 U |
| N-BUTYLBENZENE | ug/kg | 24 U |
| SEC-BUTYLBENZENE | ug/kg | 24 U |
| NAPHTHALENE | ug/kg | 24 U |
| METHYL TERT BUTYL ETHER | ug/kg | 24 U |

Notes

- STARS - Spill Tecnology and Remediation Systems.
- U - Not detected at or above the associated value.
- J - Estimated.

TABLE 3
 QUALIFIED SAMPLE DATA DUE TO HOLDING TIME EXCEEDANCES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Parameter | Sample ID | Holding Time (Days) | Holding Time Criteria (Days) | Analyte | Sample Result | Units | Qualifier |
|-----------|-----------------|---------------------|------------------------------|----------------------|---------------|-------|-----------|
| SVOCs | S-14791-DRS-013 | 16 | 14 | Benzo(a)anthracene | 250 J | µg/Kg | * |
| | | | | Benzo(a)pyrene | 230 J | µg/Kg | * |
| | | | | Benzo(b)fluoranthene | 230 J | µg/Kg | * |
| | | | | Benzo(k)fluoranthene | 200 J | µg/Kg | * |
| | | | | Chrysene | 260 J | µg/Kg | * |
| | | | | Fluoranthene | 650 | µg/Kg | J |
| | | | | Phenanthrene | 360 J | µg/Kg | * |
| | | | | Pyrene | 360 J | µg/Kg | * |
| Cyanide | S-14791-DRS-013 | 19 | 14 | Cyanide | 2.6 | mg/Kg | J |

Notes:
 * Sample results were previously qualified as estimated by the laboratory.
 J Estimated value.
 SVOCs Semi-Volatile Organic Compounds.

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Parameter | Spike ID | Analyte | MS Recovery (Percent) | MSD Recovery (Percent) | RPD ⁽¹⁾ | Control Limits (Percent) | RPD Control Limits (Percent) | Associated Sample ID | Sample Result | Units | Qualifier |
|-----------|-----------------|----------|-----------------------|------------------------|--------------------|--------------------------|------------------------------|----------------------|---------------|-------|-----------|
| | | | | | | | | | | | |
| Metals | S-14791-DRS-015 | Mercury | 0 | 177 | 200 | 75-125 | 20 | S-14791-DRS-003 | 0.24 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-004 | 0.18 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-005 | 0.025 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-006 | 0.036 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-007 | 0.038 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-008 | 0.019 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-014 | 0.014 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-015 | 0.22 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-003 | 2.9 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-004 | 2.5 | mg/Kg | J |
| Metals | S-14791-DRS-015 | Antimony | 49 | 49 | 0 | 75-125 | 20 | S-14791-DRS-005 | 0.32 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-006 | 0.31 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-007 | 0.72 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-008 | 7.2 U | mg/Kg | J |
| | | | | | | | | S-14791-DRS-009 | 6.9 U | mg/Kg | J |
| | | | | | | | | S-14791-DRS-014 | 0.41 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-015 | 29.5 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-003 | 48200 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-004 | 56400 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-005 | 89400 | mg/Kg | J |
| Metals | S-14791-DRS-015 | Calcium | 118 | 592 | 85 | 75-125 | 20 | S-14791-DRS-006 | 23300 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-007 | 13500 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-008 | 78800 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-009 | 113000 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-014 | 21700 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-015 | 11700 | mg/Kg | J |

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Parameter | Spike ID | Analyte | MS Recovery (Percent) | MSD Recovery (Percent) | RPD ⁽¹⁾ | Control Limits (Percent) | RPD Control Limits (Percent) | Associated Sample ID | Sample Result | Units | Qualifier | | |
|-----------|-----------------|-----------|-----------------------|------------------------|--------------------|--------------------------|------------------------------|----------------------|-----------------|-------|-----------------|-------|-------|
| Metals | S-14791-DRS-015 | Copper | 153 | 129 | 2 | 75-125 | 20 | S-14791-DRS-003 | 39.7 | mg/Kg | J | | |
| | | | | | | | | | S-14791-DRS-004 | 57.0 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-005 | 17.5 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-006 | 24.0 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-007 | 15.5 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-008 | 15.5 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-009 | 9.2 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-014 | 20.3 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-015 | 255 | mg/Kg | J | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Metals | S-14791-DRS-015 | Magnesium | 101 | 208 | 54 | 75-125 | 20 | S-14791-DRS-003 | 14600 | mg/Kg |
| | | | | | | | | | S-14791-DRS-004 | 16600 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-005 | 29100 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-006 | 15800 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-007 | 2640 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-008 | 26200 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-009 | 38400 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-014 | 5540 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-015 | 2610 | mg/Kg | J | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Metals | S-14791-DRS-015 | Manganese | | | | 270 | 128 | 30 | 75-125 | 20 | S-14791-DRS-003 | 313 | mg/Kg |
| | | | | | | | | | S-14791-DRS-004 | 594 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-005 | 839 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-006 | 372 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-007 | 219 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-008 | 330 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-009 | 239 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-014 | 1680 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-015 | 159 | mg/Kg | J | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Metals | S-14791-DRS-010 | Copper | 65 | 70 | 4 | 75-125 | 20 | S-14791-DRS-010 | 28.8 | mg/Kg |
| | | | | | | | | | S-14791-DRS-011 | 41.7 | mg/Kg | J | |
| | | | | | | | | | S-14791-DRS-013 | 49.4 | mg/Kg | J | |

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Parameter | Spike ID | Analyte | MS Recovery (Percent) | MSD Recovery (Percent) | RPD ⁽¹⁾ | Control Limits (Percent) | RPD Control Limits (Percent) | Associated Sample ID | Sample Result | Units | Qualifier |
|-----------|-----------------|-----------|-----------------------|------------------------|--------------------|--------------------------|------------------------------|----------------------|---------------|-------|-----------|
| | | | | | | | | | | | |
| Metals | S-14791-DRS-010 | Magnesium | 101 | 142 | 16 | 75-125 | 20 | S-14791-DRS-010 | 8970 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-011 | 2480 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-013 | 10600 | mg/Kg | J |
| Metals | S-14791-DRS-010 | Mercury | 65 | 21 | 22 | 75-125 | 20 | S-14791-DRS-010 | 0.12 | U | J |
| | | | | | | | | S-14791-DRS-011 | 0.35 | mg/Kg | J |
| | | | | | | | | S-14791-DRS-013 | 1.3 | mg/Kg | J |
| Metals | W-14791-DRS-001 | Selenium | 69 | 75 | 8 | 75-125 | 20 | W-14791-DRS-001 | 3.2 | µg/L | J |
| | | | | | | | | W-14791-DRS-002 | 2.5 | µg/L | J |
| | | | | | | | | W-14791-DRS-003 | 4.4 | µg/L | J |

Notes:

(1) RPD values were calculated based on concentration rather than percent recovery.

J Estimated value.

MS Matrix Spike.

MSD Matrix Spike Duplicate.

RPD Relative Percent Difference.

U Non-detect at associated value.

TABLE 5
QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
FORMER BUFFALO FORGE PLANT NO. 1
HOWDEN BUFFALO, INC.
BUFFALO, NEW YORK
FEBRUARY 2000

| <i>Parameter</i> | <i>Blank ID/Date</i> | <i>Analyte</i> | <i>Blank Result</i> | <i>Sample ID</i> | <i>Sample Result</i> | <i>Qualified Sample Result</i> | <i>Units</i> |
|------------------|----------------------|----------------|---------------------|------------------|----------------------|--------------------------------|--------------|
| Metals | 02/21/00 | Beryllium | 0.85 | W-14791-DRS-001 | 0.19 | 0.19 U | µg/L |
| | | | | W-14791-DRS-002 | 0.22 | 0.22 U | µg/L |

Notes:
 U Non-detect at associated value.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE RINSE BLANKS
 FORMER BUFFALO FORGE PLANT NO. 1
 HOWDEN BUFFALO, INC.
 BUFFALO, NEW YORK
 FEBRUARY 2000

| Parameter | Rinse Blank Date | Analyte | Blank Result | Sample ID | Sample Result | Qualified Sample Result | Units |
|-----------|------------------|------------|--------------|-----------------|---------------|-------------------------|-------|
| VOCs | 02/10/00 | Acetone | 3.8J | W-14791-DRS-001 | 4.5J | 20 U | µg/L |
| | | | | S-14791-DRS-005 | 35 | 35 U | µg/Kg |
| | | | | S-14791-DRS-006 | 21J | 27 U | µg/Kg |
| VOCs | 02/10/00 | 2-Butanone | 12J | W-14791-DRS-001 | 1.9J | 20 U | µg/L |
| Metals | 02/10/00 | Beryllium | 0.12 | W-14791-DRS-001 | 0.19 | 0.19 U | µg/L |
| | | | | W-14791-DRS-002 | 0.22 | 0.22 U | µg/L |
| Metals | 02/10/00 | Sodium | 52 | S-14791-DRS-003 | 142 | 142 U | mg/Kg |
| | | | | S-14791-DRS-004 | 172 | 172 U | mg/Kg |
| | | | | S-14791-DRS-006 | 190 | 190 U | mg/Kg |
| | | | | S-14791-DRS-007 | 199 | 199 U | mg/Kg |
| | | | | S-14791-DRS-009 | 168 | 168 U | mg/Kg |
| Metals | 02/10/00 | Chromium | 8.4 | S-14791-DRS-010 | 121 | 121 U | mg/Kg |
| | | | | S-14791-DRS-015 | 150 | 150 U | mg/Kg |
| | | | | W-14791-DRS-001 | 9.7 | 9.7 U | µg/L |
| | | | | W-14791-DRS-002 | 13.1 | 13.1 U | µg/L |

Notes:

J Estimated value.

U Non-detect at associated value.

CHAIN OF CUSTODY RECORD

CRA
 CONESTOGA-ROVERS & ASSOCIATES
 2055 Niagara Falls Blvd. Suite Three
 Niagara Falls, NY 14304 (716)297-6150

SHIPPED TO (Laboratory Name):
 Quintero, I.M.C.

REFERENCE NUMBER:
 14791 Farmer Buffalo Plant

SAMPLER'S SIGNATURE: *Dustin Sker*
 PRINTED NAME: Dustin Sker

| SEQ. No. | DATE | TIME | SAMPLE No. | SAMPLE TYPE | CONTAINERS | PARAMETERS | | | | REMARKS | |
|----------|-------|------|-----------------|-----------------------|------------|--------------|-----------|----------|------------|---------|-----------------------|
| | | | | | | TCLVIA (TCL) | ALB (TCL) | TA (TCL) | STKS (TCL) | | |
| 1120 | 11/20 | 0900 | S-14791-DKS-001 | Translucor Room | 1 | X | | | | | |
| 1130 | 11/20 | 0211 | S-14791-DKS-003 | Paintstore Room | 3 | X | X | | | | No sample - DKS-002 |
| 1145 | 11/20 | 1130 | S-14791-DKS-005 | Machine Shop floor | 3 | X | X | X | | | |
| 1200 | 11/20 | 1145 | S-14791-DKS-006 | wood blocks | 3 | X | X | X | | | |
| 1440 | 11/20 | 1440 | S-14791-DKS-007 | Press Pit | 3 | X | X | X | | | COC. 10fz |
| 1430 | 11/20 | 1430 | S-14791-DKS-008 | machik pit | 3 | X | X | X | | | |
| 1430 | 11/20 | 1430 | S-14791-DKS-009 | Paint gate | 3 | X | X | X | | | COC 2363 |
| 0830 | 11/20 | 0830 | W-14791-DKS-001 | Water | 8 | X | X | X | | | Other person's C.O.C. |
| 0900 | 11/20 | 0900 | W-14791-DKS-002 | | 8 | X | X | X | | | 3949 |
| 0830 | 11/20 | 0830 | W-14791-DKS-003 | | 8 | X | X | X | | | |
| 1015 | 11/20 | 1015 | S-14791-DKS-010 | 5000 gal. 1st yard | 2 | X | X | X | | | |
| 1315 | 11/20 | 1315 | S-14791-DKS-011 | 5000 gal. 2nd yard | 2 | X | X | X | | | |
| 1415 | 11/20 | 1415 | S-14791-DKS-012 | 5 square yard AST | 2 | X | X | X | | | |
| 0930 | 11/20 | 0930 | S-14791-DKS-013 | Moz. waste stone area | 2 | X | X | X | | | |
| 1000 | 11/20 | 1000 | S-14791-DKS-015 | Parking lot | 3 | X | X | X | | | |
| | | | | | 36 | X | X | X | | | |

| HEALTH/CHEMICAL HAZARDS | |
|------------------------------------|------------------|
| REINQUISHED BY: <i>[Signature]</i> | DATE: 11/20/2000 |
| REINQUISHED BY: | TIME: 1600 |
| REINQUISHED BY: | DATE: |
| REINQUISHED BY: | TIME: |
| REINQUISHED BY: | DATE: |
| REINQUISHED BY: | TIME: |

METHOD OF SHIPMENT: *FDFX* WAY BILL No. *4569 8651 2034*

RECEIVED FOR LABORATORY BY: _____ DATE: _____ TIME: _____

SAMPLE TEAM: *DKS*

White - Fully Executed Copy
 Yellow - Receiving Laboratory Copy
 Pink - Shipper Copy
 Goldenrod - Sampler Copy

No NF-2363

CHAIN OF CUSTODY RECORD

CRA

CONESTOGA-ROVERS & ASSOCIATES
 2055 Niagara Falls Blvd. Suite Three
 Niagara Falls, NY 14304 (716)297-6150

SHIPPED TO (Laboratory Name):

Quaternary, Inc.

REFERENCE NUMBER:

14791 *Panna Buffalo Range Hunt*

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: *Dustin Spitzer*

| SEQ. No. | DATE | TIME | SAMPLE No. | SAMPLE TYPE | CONTAINERS | PARAMETERS | | | | | | | REMARKS | |
|-------------------------------------|---------|------|------------------|-------------|------------|--------------|-------------------------|-----|----|-------|----|----|---------|----|
| | | | | | | THW | PH | TOC | TP | TA | TC | AS | | DR |
| | 2/16/00 | 1230 | RB-14791-DRS-001 | Water | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X |
| | | | TRIP BLANK | Water | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| TOTAL NUMBER OF CONTAINERS | | | | | | 71 | HEALTH/CHEMICAL HAZARDS | | | | | | | |
| RELINQUISHED BY: <i>[Signature]</i> | | | | DATE: | 2/14/00 | RECEIVED BY: | | | | DATE: | | | | |
| | | | | TIME: | 1600 | | | | | TIME: | | | | |
| RELINQUISHED BY: | | | | DATE: | | RECEIVED BY: | | | | DATE: | | | | |
| | | | | TIME: | | | | | | TIME: | | | | |
| RELINQUISHED BY: | | | | DATE: | | RECEIVED BY: | | | | DATE: | | | | |
| | | | | TIME: | | | | | | TIME: | | | | |

METHOD OF SHIPMENT: *F.F.D.F.X*

WAY BILL No. _____
 RECEIVED FOR LABORATORY BY: _____
 DATE: _____ TIME: _____

SAMPLE TEAM: *DS*
 - Fully Executed Copy
 - Receiving Laboratory Copy
 - Shipper Copy
 - Sampler Copy

NO NF-3949