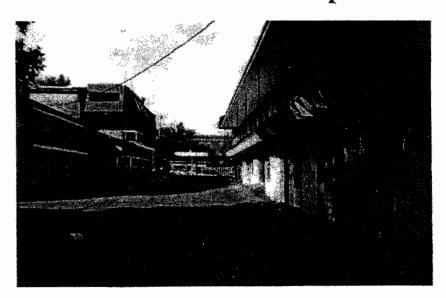
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION

REMEDIAL INVESTIGATION REPORT

93 Main Street Inactive Hazardous Waste Disposal Site



Site No. 7-04-027 City of Binghamton, Broome County, NY

January 2000

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SECTION 1: SCOPE OF THE PROJECT

In October of 1998, the New York State Department of Environmental Remediation (DER) finalized a Work Plan for the Remedial Investigation and Feasibility Study (RI/FS) of the 93 Main Street Site. The remedial investigation (RI) was planned in response to the identified presence of pesticides and herbicides in the soil and ground water which resulted in the placement of the site on the New York State Registry of Inactive Hazardous Waste Sites, as a class 2. A class 2 site is defined as a site which posses a significant threat to human health or the environment. The purpose of the RI is to characterize the nature and extent of the contamination present at the site. The RI will be followed by a Feasibility Study (FS), which will evaluate alternative remedies to address any contamination identified at the site, which may be impacting human health or the environment.

During the RI it became obvious that the abandoned buildings on the 93 and 89-91 Main Street property would have to be demolished in order to completely investigate the site. To this end the City of Binghamton began the demolition process by taking bids on the demolition project. By the 20th of September 1999 the demolition was complete and the NYSDEC began Phase II of the Remedial Investigation. The purpose of Phase II was to better define groundwater flow at the northern end of the site and to investigate the area under the former garage of the 93 Main Street building. The following is the Remedial Investigation Report.

SECTION 2: BACKGROUND

2.1 Site Description

The 93 Main Street Site consists of four parcels of land, 89-91 and 93 main street and 25 and 25½ Arthur street, located in the City of Binghamton, Broome County. An abandoned former apartment building existed on 93 Main Street and a partially completed motel building existed on 89-91 Main Street. Both structures were in serious disrepair. The 93 Main Street Parcel was at one time home to the McMahon Brothers Pest Control company. The 25½ Arthur street property contains a house that is currently occupied, while the 25 Arthur Street property is a vacant lot. The areas of contamination are centered around a dry well located on 89-91 Main Street and a drain on 93 Main Street. Figure 1 shows the properties described above. The surrounding area is a mix of residential and commercial buildings, all of which are served by municipal water service.

2.2 Site History

2.2.1 Operating History

From the 1950's to the 1980's the McMahon Brothers Pest Control company operated at the 93 Main Street Site. It was reported that the site was used as a pesticide/herbicide storage and handling location for the company. There were also allegations of spills having taken place at the Site.

2.2.2 Remedial History

In 1995 Gaynor Associates of Cortland, NY performed a Phase II environmental audit on the 93 Main Street property for a financial institution. The results of the investigation revealed elevated concentrations of herbicides and pesticides in the soil, specifically 2,4,5-T at 12,000 μ g/kg; 2,4-D at 4,030 μ g/kg; and Chlordane at 15,000 μ g/kg.

During the investigation, Gaynor determined that a back area of the building had been used by McMahon for pesticide storage and handling. This area had since been converted to apartments, and the concrete floor covered with tile or carpet. During the Gaynor study strong pesticide odors were noted in the abandoned apartments, which were in serious disrepair.

In 1995 the City, in response to these and other complaints, entered into a Voluntary Cleanup Agreement with the NYSDEC in order to perform a limited investigation of the site. This investigation focused on the rear of the 93 Main Street building and consisted of Geoprobe sampling of the soil and groundwater. The results of this investigation revealed elevated concentrations of pesticides/herbicides such as chlordane, aldrin, dieldrin, and 2,4,5-T in the Site's groundwater and/or soil. These pesticide concentrations exceeded, in some instances, the NYSDEC's groundwater standards by orders of magnitude. Soil guidance value exceedences were also significant. The presence of these pesticides indicate a threat to the area's sole source aquifer and was the basis for the Site's class "2" designation on the New York State Registry of Inactive Hazardous Waste Sites.

SECTION 3: REMEDIAL INVESTIGATION PHASE I

In order to determine the nature and extent of contamination present at the 93 Main Street Site, the DER initiated a Remedial Investigation (RI) at the site in October 1998. This section summarizes the methodology and findings of the various investigations undertaken as part of the RI. More detail relative to the investigation is available in the workplan entitled "Remedial Investigation/Feasibility Study On-site Work Plan" dated October 1998.

As part of this investigation, the following activities took place:

- Surface and subsurface soil samples were collected using a Geoprobe rig. The samples were then analyzed for pesticides and herbicides using immunoassay test kits.
- Groundwater samples were collected, also using a Geoprobe, and analyzed to help determine the extent of groundwater contamination.
- Monitoring wells were installed to define groundwater flow direction and determine the extent of groundwater contamination.
- A test pit investigation was conducted to determine if there were any pipes connected to the drywell on 89-91 Main, the drain on 93 Main or to determine whether other underground structures existed.

3.1 Geoprobe Investigation

It was known that a pest control company operated from the site and that equipment and chemicals had been stored at the site. Previous investigations revealed contamination in both the soil and groundwater. Since the limited historical data available suggested possible wide spread contamination such as spills or other disposal during the operation, immunoassay testing in conjunction with geoprobe subsurface soil sampling was used to identify impacted areas of the site. Information gathered during preliminary soil sampling was used to focus subsequent soil sampling. Samples were initially collected on a twenty foot grid at locations of suspected contamination (i.e. around the drywell on 89-91) and to an approximate depth of 20 feet. Sample collection continued until soil contamination was fully delineated. Samples were analyzed for 2,4-D, Chlordane, and DDT using immunoassay test kits.

As part of the geoprobe investigation 56 subsurface soil samples and 3 groundwater samples were collected and analyzed. A summary of the immunoassay test results are provided in Table 1 (see Appendix A)

Of the 56 soil samples collected from the site DDT, 2,4-D, and Chlordane registered positives on 8, 37, and 31 soil samples, respectively. The highest levels detected were immediately around the drain located on the 93 Main Street property. Since immunoassay tests can react to compounds that are closely related in structure to the target compounds, results are confirmed by standard laboratory testing. One out of every ten samples collected was sent to the lab for full analysis. Table 1 compares results from the immunoassay testing to results obtained from laboratory analysis. Overall the immunoassay tests tended to give a slightly higher positive result when compared to lab analysis of the sample. This is due to the qualitative nature of the test.

The geoprobe investigation identified two areas of localized contamination, both areas are centered around the identified drywell on the 89-91 and the drain, discovered during monitoring well installation, on 93 Main Street. The area of greatest contamination is located around the drain located on the 93 Main Street property. This area extends from approximately four feet below grade to the top of the water table which is located at approximately 23 feet below ground surface in this area. The contamination also appears to extend approximately six feet radially around the drain. The area of contamination on the 89-91 street property appears much smaller, confined to approximately 4 to 6 feet below grade and extending two feet radially from the drywell.

3.2 Test Pit Investigation

As a component of the RI, tests pits were excavated to search for underground piping and other subsurface structures or drums. Test pits were also used to investigate the area behind 93 Main Street where there was evidence of fill having been placed which included various materials, such as tires and concrete blocks. Test pit locations are shown in Figure 2.

Tests pits were excavated using a backhoe and were generally three feet wide, six to eight feet long, and six to eight feet deep. Tests pits were visually inspected to examine the quality of subsurface soils and to check for piping, drums or subsurface structures. During excavation the test pits were also monitored using a photoionization detector. A photo-ionization detector (PID) measures toxic gases and vapors in low parts per million concentrations. A PID detects most volatile organic compounds (VOCs) with a carbon range from one (e.g., methylene chloride - CH2Cl2) to ten (e.g., naphthalene - C10H8). If contamination was identified which was similar to waste found during the geoprobe sampling, no additional samples were collected. One sample was taken from the test pit around the drain on 93 Main street and analyzed for pesticides/herbicides, metals, VOCs, and SVOCs. Analytical results were compared to applicable, Standards, Criteria, and Guidance (SCGs). There is a description of SCGs in Section 5.1. Table 2 compares the analytical results from the test pit sample to SCGs.

During the test pit excavation around the drain on 93 Main Street visually contaminated soil was identified at approximately four feet below the surface. Contaminated soil exhibited dark staining and a petroleum/pesticide odor. A sheen was evident on some of the excavated soil. During excavation it became evident that the site soils were not very stable, so the depth of the test pit excavation had to be limited. A side of the drain was exposed during excavation. It appeared to be constructed of bricks and cement. The test pit could not identify the total depth of the well due to the unstable nature of the site soil. At one time the well provided a direct pathway for contamination into the subsurface soil, it also allowed contamination to leach through it's walls into the surrounding soil, resulting in an area of contamination which extends approximately six feet radially from the drain and from four to twenty five feet below ground level. Currently the drain is filled with loosely packed soil, probably the result of years of accumulated decomposing leaves and surface run off. No inlet or outlet pipes were found to

be connected to the drain.

The test pit excavation around the drywell located on the 89-91 Main Street property also failed to reveal any inlet or outlet pipes. Contaminated soil in this area appeared similar to the contaminated soil described above. Excavation was also carried out in the debris pile behind the 93 Main Street building. The test pit investigation did not discover any subsurface structures or drums.

3.3 Monitoring Wells

Geologic and hydrogeologic properties of the overburden material were investigated at the site through a soil boring and monitoring well installation program. This program included six soil borings with monitoring wells constructed at each boring. Locations of the monitoring wells were selected based on site topography and the fact that the Site was believed to be within the zone of influence of an industrial water supply well. MW-2 was installed at a location up gradient from the site and therefore represents background groundwater conditions. Well locations are shown in Figure 2. A discussion of subsurface geology and hydrogeology can be found in Section 4.2, Site Geology and Hydrogeology.

Monitoring wells were drilled and installed using hollow stem auger (HSA) methods. Continuous split spoon sampling was utilized to visually classify the soil. Soil types were classified and recorded by a geologist. The total depth of each well ranged from 21 to 33 feet below ground surface. Monitoring wells were constructed of two inch ID Schedule 40 flush-threaded PVC well screen (0.010-inch machine slotted) and riser. The sand pack was constructed with No. 1 Morie sand. A bentonite seal was placed above the sand pack, followed by a cement/bentonite grout to be placed to within three feet of the ground surface. Each well has a vented cap and steel flush mounted protective casing. A cement pad was constructed to divert surface water from each well. Well construction details are included in Appendix B.

Monitoring wells were developed by pumping and bailing until temperature, pH, and conductivity stabilized. Turbidity was also monitored with a target value of 50 NTUs, which was accomplished at all monitoring wells except MW-4. MW-5 is a dry hole and therefore not developed.

3.4 Groundwater Sampling

During the geoprobe investigation three water samples were collected at geoprobe locations #2, #10, and #48. One of the samples was analyzed for the complete TCL list while the remaining two were only analyzed for pesticides, due to lack of volume. Figure 2 Shows the locations of these samples. The results are listed in Appendix A Table 3.

One round of groundwater sampling was collected from each of the six monitoring wells to determine if groundwater contamination had occurred from the disposal at the site. MW-5

could not be sampled because it did not produce any water. Due to difficult drilling conditions and auger refusal at twenty feet below ground surface, MW-5 is screened from 10 to 20 feet, approximately one foot above the water table based on the cross sections developed for the site. Of the remaining five wells sampled only MW-1 and MW-6 showed signs of contamination. Located in the area of highest contamination MW-6 exhibited elevated levels of volatiles, semivolatiles, and pesticides. MW-1 located down gradient of MW-6 only exhibited elevated levels of pesticides. The Results of the analysis for all monitoring wells is presented in Table 3 in Appendix A.

SECTION 4: REMEDIAL INVESTIGATION PHASE II

Phase I of the RI delineated the nature and extent of two areas of subsurface contamination, the drain on the 93 Main Street property and the drywell on the 89-91 Main Street property. However, the configuration of the monitoring wells one through six was not sufficient to describe groundwater flow patterns and contamination transport on the northeastern part of the site. Also the possibility of the a third source area under the garage area of the 93 Main Street building needed to be investigated.

As part of the second phase of this investigation, the following activities took place:

- Four additional groundwater monitoring wells were installed.
- Borings were made through the slab of the garage area of the 93 Main Street building to obtain soil samples.
- The concrete slab in the garage area was removed to obtain additional samples and investigate a floor drain found in the garage.

4.1 Monitoring Wells

During phase II of the RI four additional monitoring wells were constructed. Locations of the monitoring wells were selected based on site topography and hydrogeological data obtained from the monitoring wells already installed on the site. Well locations are shown in Figure 2. A discussion of subsurface geology and hydrogeology can be found in Section 5.2, Site Geology and Hydrogeology.

Monitoring wells were drilled and installed using hollow stem auger (HSA) methods. Continuous split spoon sampling was utilized to visually classify the soil. Soil types were classified and recorded by a geologist. The total depth of each well ranged from 21 to 33 feet below ground surface. Monitoring wells were constructed of two inch ID Schedule 40 flush-threaded PVC well screen (0.010-inch machine slotted) and riser. The sand pack was

constructed with No. 1 Morie sand. A bentonite seal was placed above the sand pack, followed by a cement/bentonite grout to be placed to within three feet of the ground surface. Each well has a vented cap and steel flush mounted protective casing. A cement pad was constructed to divert surface water from each well. Well construction details are included in Appendix B.

Monitoring wells were developed by pumping and bailing until temperature, pH, and conductivity stabilized. Turbidity was also monitored with a target value of 50 NTUs.

4.2 Groundwater Sampling

One round of groundwater samples was taken from monitoring wells 7 through 10, after development was complete. Additionally a second round of groundwater samples were taken from monitoring wells 1 and 6. All groundwater samples were analyzed for VOCs, SVOCs, pesticides and herbicides. This round of groundwater sampling revealed contamination in MW-6, MW-1, MW-8 and minor contamination in MW-10. The results of the sampling are present in Appendix A Table 4.

4.3 Garage Drain Investigation

Once the demolition of the 93 Main Street building was completed the NYSDEC was able to fully investigate the former garage area. The removal of a false floor that had been constructed over the garage slab revealed the presence of a floor drain. In an attempt to obtain soil samples for laboratory analysis a drill rig was used to bore through the concrete slab and take soil samples. The first bore hole was drilled to the east of the floor drain and a soil sample was obtained from the first foot of soil under the slab. At eight feet below the slab a large void was discovered that extended to approximately thirteen feet below ground surface. The boring was unable to be continued at thirteen feet due to the presence of what appeared to be broken concrete at the bottom of the void. Additional boreholes were placed in an attempt to delineate the extent of the void and to obtain soil samples.

To further investigate the void under the garage slab a backhoe was used to remove the slab. The void was approximately six feet in diameter and thirteen feet deep. Only a small area of stained soil was observed from which a soils sample was obtained. Samples were also taken from the bottom of the void and from the top foot of soil near the floor drain. There were two pipes found to be entering the void, one was within the floor drain and the other one was a clay pie approximately 10 feet below grade running toward main street. Soils samples revealed the presence of Silvex and 2,4,5-T in this area. Laboratory results can be found in Appendix A Table 5.

SECTION 5: GEOLOGIC AND HYDROGEOLOGIC SETTING

5.1 Regional Geology

The 93 Main Street Site is located in the Appalachian Plateau Physiographic province in south-central New York State. The area under study occupies approximately one half acre of the Susquehanna River Valley floor. The Bedrock in this region is predominantly interbedded shale and limestone (NYSDEC Bulletin 73, 1977).

The Susquehanna River Valley was carved into the Appalachian Plateau by a preglacial river and was deepened and widened through erosion by glacial ice (USGS, WRI Report 86-4123, 1986). The glacier carried consolidated material with it as it moved southward. As the glacier receded, the material was deposited on the land from the ice and melt-water. The well-sorted materials were typically deposited by the water and the poorly-sorted material, referred to as till, by the ice.

The Broome County region is covered by glacial, fluvial, and alluvial lake sediments which include coarse sand and gravel within the river valley, changing to finer sand, silt, and clay along the flood-plain approaching the Susquehanna River.

5.2 Regional Hydrogeology

The Susquehanna River drains many of the most productive aquifers in New York. These aquifers are composed mainly of sand and gravel, interbedded with silt and clay in varying proportions, and are generally located adjacent to major streams and rivers. Specific to the Johnson City/Binghamton area is the valley-fill aquifer defined by Holocek et. al., in the 1982 USGS Open-file Report 82-268. This aquifer and the surrounding drainage basin comprise the Clinton Street-Ballpark Sole Source Aquifer according to an April 1990 map provided by the USEPA Region 2 and is a NYS designated Primary aquifer according to the October 23, 1990 NYSDEC Division of Water Technical and Operational Guidance Series (2.1.3). The 93 Main Street Site is located on the southern boundary of this valley-fill aquifer. The map provided in Appendix D show the placement of the site relative to the aquifer boundaries.

The principal sources of recharge to the Susquehanna River Valley aquifers are: recharge directly from the Susquehanna and Chenango Rivers; precipitation (average annual precipitation is 36.78 inches for Binghamton, NOAA, 1988) and, infiltration from small streams crossing the aquifer (Randall, Bulletin 73, 1977).

Groundwater has been the primary source of water for Binghamton, Johnson City and Endicott since 1912, when compressed air was first used to pump wells in the Village of Endicott. Since then, a number of well fields have developed on which the three cities residential population and industry are very dependent.

5.3 Site Geology

As part of the RI, an extensive investigation of the overburden geology was conducted. This investigation included Geoprobe, test pit and monitoring well investigations. These investigations revealed the following stratigraphic units from the ground surface: Fill, Silt with Gravel and Sand, Gravel and Sand, Till. A more detailed description of these units is presented below. Figure 2 shows monitoring well and boring locations. Boring logs are included in Appendix C.

Fill:

The fill generally consists of cinders, ash, debris, and locally derived fine sand and coarse to fine gravel. The fill is generally one to five feet in thickness extending from the ground surface. The fill ranges in color from black and orange to brown and white. In some areas the fill also contains brick, concrete, and glass.

Silt with Gravel:

This unit found immediately below the fill is comprised of red-brown silt with coarse to fine gravel, generally moist to wet, and extends from the fill layer to approximately 12 feet below ground surface. This is generally moist and subject to sloughing in an open excavation. Soil saturated with contamination appeared black and oily.

Gravel and Sand:

This unit, where present, extends from below the silt and gravel unit described above down to the top of the lodgement till. It is comprised of cobble, coarse to fine gravel, and some coarse to fine sand. It is distinguishable from the silt and gravel unit by its brown to brown-grey color and lack of silt. The unit was not present at the southern most boring location, which coincide with the highest till surface elevation.

Till:

Lodgement till comprised of grey over compacted silt and clay with some fine gravel was encountered at most drilling locations except at the northern portion of the site. The unit is very dense and relatively impermeable. The surface dips from the south to the north-northeast, increasing in depth towards the aquifer. The till unit was not encountered at MW-5 and MW-1 due to difficult drilling through the sand and gravel unit above. These borings were advanced to depths sufficient to demonstrate that if present at these locations (published literature indicates that it does), the pattern of the surface dipping to the north-northeast continues. Overall thickness of the till unit was not determined during this investigation.

5.4 Site Hydrogeology

As briefly described in Section 3.4.3 above, six monitoring wells were installed during the Remedial Investigation. Monitoring wells were installed at six locations, although one, MW-5 did not produce any water since it was not advanced to the water table. Four rounds of groundwater elevation data has been recorded during the period between November 1998 and June 1999 to characterize groundwater flow direction.

Groundwater exists at depths ranging from 7 to 23 feet below ground surface, depending on location, under unconfined conditions within a thin saturation zone directly above the lodgment till across the study area. Measured groundwater elevations consistently show flow direction to be north-northeast towards the aquifer to the north, similar to the dip of the surface of the till unit. Recharge to the water table in this area occurs as downward infiltration of precipitation. Apparently, once it reaches the relatively impermeable till unit, groundwater flow is controlled by gravity as it flows along the surface of the till into the sand and gravel aquifer to the north. Monitoring well locations are shown on Figure 2.

A high capacity production well located approximately one half mile to the north within the sand and gravel aquifer operated at a rate of three million gallons per day. In January 1999, this rate was significantly reduced to approximately 1.5 mgd and eventually shut down permanently. Because the site is located on the aquifer boundary, and based on groundwater elevations recorded over the shut down period, it appears that the operation of this well did not have a direct effect on groundwater flow within the study area.

Aquifer tests, or slug tests as appropriate in this study, have not been performed during this investigation. Recovery rates observed during monitoring well development suggest a range of moderate to low hydraulic conductivity within the saturated sand and gravel unit. The moderately steep hydraulic gradient across the site further supports this interpretation.

SECTION 6: EXPOSURE PATHWAY ANALYSIS

6.1 Applicable Standards, Criteria, and Guidance (SCGs)

In order to identify potential exposure pathways, applicable SCG's must be identified. 6 NYCRR Part 375-1.10(c)(1)(I) requires that remedial actions comply with SCG's "unless good cause exists why conformity should be dispensed with." Standards and Criteria are cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance. Guidance includes non-promulgated criteria and guidelines that are not legal requirements; however, the site's remedial program should be designed with consideration given to guidance that, based on professional judgement, is determined to be applicable to the site.

SCG's are categorized as chemical specific, location specific, or action specific. These categories are defined as the following:

Chemical Specific: These are health or risk based numerical values or methodologies

which, when applied to site specific conditions, result in the establishment of numerical values for the chemicals of interest. These values establish the acceptable amount or concentration of

a chemical that may be found in or discharged to the

environment.

Location Specific: These are restrictions placed on the concentrations of hazardous

substances or the conduct of activities solely because they occur

in a specific location.

Action Specific: These are usually technology or activity based requirements or

limitations on actions taken with respect to hazardous waste

management and site cleanup.

The following SCG's have been found to be applicable to the 93 Main Street site:

Soil - NYSDEC Division of Hazardous Waste Remediation Technical and Administrative Guidance

Memorandum (TAGM) 4046, Determination of Soil Cleanup and Cleanup Levels

- 6 NYCRR Part 371, Identification and listing of Hazardous Wastes

- NYSDEC Division of Hazardous Substances Regulation TAGM 3028, "Contained in Criteria

for Environmental Media." (11/92)

Waste - 6 NYCRR Part 371, Listing of Hazardous Waste

- NYSDEC Division of Hazardous Substances Regulation TAGM 3028, "Contained in Criteria for

Environmental Media" (11/92)

Groundwater - 6 NYCRR Part 700-705, Water Quality Regulations for Surface Water and Groundwater

- NYSDEC Division of Water TOGS 1.1.1

The analytical data summary tables present SCGs for the contaminants analyzed for in each media (i.e. soil, sediments, water, etc.)

6.2 Contaminants of Concern

By comparing data collected from the 93 Main Street Site to SCGs, the RI established that contaminants of concern for subsurface soils are as follows:

Volatiles:

Chlorobenzene

Ethylbenzene

Xylene

Semivolatiles:

1,2,4-Trichlorobenzene Naphthalene

2 - Methylnaphthalene 2,4,5-Trichlorophenol

4-Nitrophenol

Pesticides:

alpha-BHC beta-BHC

delta-BHC gamma-BHC (Lindane) Aldrin Heptachlor Epoxide

Endosulfan I Dieldrin 4,4'-DDE Endrin 4.4'-DDD Endosulfan II 4,4'-DDT gamma-Chlordane

Silvex 2,4,5-T

Metals:

Arsenic Beryllium Zinc Mercury

6.3 Human Health Evaluation

5.3.1 Pathway Analysis

An exposure pathway is the route by which an individual comes in contact with a contaminant. The five elements of an exposure pathway are 1) a source of contamination; 2) the environmental medium and transport mechanisms; 3) the point of exposure; 4) the route of exposure; and 5) the receptor population. In order for an individual to be affected by contamination at the 93 Main Street Site, for example, a pathway must be complete. Pathways may be direct or indirect. Direct exposure pathways include dermal contact with, inhalation or ingestion of the contaminant. Ingestion of contaminated drinking water is an example of a complete direct exposure pathway. An example of an indirect exposure pathway is human consumption of fish which have been contaminated by eating smaller creatures living in contaminated sediments. The following sections address several potential exposure pathways at the 93 Main Street Site.

6.3.2 Groundwater Exposure Pathway

Data from monitoring wells at the Site have indicated that MW-1 and MW-6 showed signs of contamination. MW-1 had low levels of pesticides and MW-6 had relatively high levels of volatiles, semivolatiles, and pesticides. However, there are no known residential wells in the vicinity and the community is served by a municipal water supply. The site contamination is relatively insoluble in water, and groundwater is

generally twenty three feet below ground level. There are no apparent discharge points for the groundwater, such as streams or sewers. Contaminated groundwater is also well below basement level. However, groundwater from the site is flowing towards the sole source aquifer.

6.3.3 Surface Soil Exposure Pathway

Surface soils sampling results currently available do not indicate exposure concerns.

6.3.4 Air Exposure Pathway

The building at 93 Main Street was boarded up to discourage trespass and it was subsequently demolished by the City of Binghamton. Contaminant vapors might have accumulate in the building. Trespassers could have been potentially exposed to these vapors if they had entered this building. However, since routes of entry into the building were secured this pathway should not have been complete.

6.3.5 Conclusions

Potential human exposure pathways at the 93 Main Street site were assessed. Potential exposure pathways do not appear at this time to be completed for the public sector. Excavations on the site could expose workers, primarily, to contaminated subsurface soils, vapors, and waters. Engineering controls on fugitive dust, vapors, and water drainage during any excavation on site should be utilized to protect workers and the community. The site also has the potential to impact the sole source aquifer.

6.4 Habitat Based Assessment

A habitat based assessment is performed during a RI when it is determined that an impact to wildlife may exist as a result of contamination from the site. Field observations were made in conjunction with environmental sampling towards determining if such an assessment was necessary for this RI.

The potential impacts or routes of exposure to wildlife that were considered include but are not limited to the following:

- Uptake of contaminants by plant life on or near the site.
- ♦ Consumption of contaminated plants by animals in the area.
- Direct contact with contaminants at the surface by animal life on or near the site.
- ♦ Impacts to surface water via groundwater discharge.

Field observations at the site did not find any waste material at the surface. Stressed vegetation

on or off site was not found to exist. Analytical results combined with hydrogeologic observations indicate that any migration of contaminants is to the northeast. Groundwater discharge to the Chenango River does not likely occur in the vicinity of the site based on these observations. After consideration of the above mentioned potential impacts with the conditions defined for the site, it was determined that impacts to wildlife as a result of contamination from the site was not occurring. Therefore the habitat based assessment was not carried any further.

SECTION 7: FINDINGS OF THE REMEDIAL INVESTIGATION

7.1 Nature and Extent of Contamination

The purpose of the RI was to characterize the nature and extent of contamination at the 93 Main Street Site. The investigation involved subsurface soil sampling, ground water sampling and test pit investigation. Immunoassay analysis of the subsurface soil revealed two highly localized areas of subsurface soils contaminated with pesticides, herbicides, volatiles, and semivolatiles around the drywell on 89-91 Main Street and drain on 93 Main Street. Based on observations during the subsurface soil sampling the contamination, on 93 Main Street, extends radially six feet from the drain and from approximately four to twenty three feet below ground level. The hard till present at approximately twenty three feet appears to limit any further downward migration of the contamination. The contamination around the dry well, on 89-91 Main Street, extends from approximately four to six feet below ground level and two feet radially. A third area of contamination was also identified under the former garage area of the 93 Main Street building extends approximately 10 feet radially and 23 feet deep. Figure 3 shows the estimated limits of contamination

Out of the nine usable monitoring wells that were installed on the site MW-1, MW-6, MW-8 and MW-10 are contaminated. MW-6 was located directly in the area of highest contamination, around the drain on 93 Main Street, and exhibited levels many times higher than SCG's for volatiles, semivolatiles, and pesticides. MW-8 is located down gradient of the garage drain and exhibits levels of pesticide contamination slightly lower than MW-6. MW-1 was located down gradient and northeast of MW-6, pesticide contamination was detected in MW-1 at levels significantly lower than those in MW-6. MW-10 is located down gradient of MW-6 and MW-8 and exhibits pesticide contamination slightly above SCGs. Table 4 shows groundwater contamination levels in comparison to SCGs.

7.2 Recommendations and Conclusions

7.2.1 Recommendations

Based on the Remedial Investigation, approximately 1200 cubic yards of soil contaminated with petroleum, herbicides, and pesticides have been identified at the 93 Main Street site. The approximate limits of contamination are shown in Figure 3. It is recommended that a Feasibility Study be performed to assess the most suitable means of

addressing the media where contamination has been identified. As a component of the Feasibility Study, a detailed evaluation of relevant State standards, criteria, and guidance, should be conducted in the development of appropriate remedial objectives.

7.2.2 Conclusions

The 93 Main Street is located in an area that is highly developed. The area surrounding the site is both residential and commercial in nature. For these reasons, the potential future use of the 93 Main Street site would be negatively impacted by the ongoing presence of subsurface volatile, semivolatile, and pesticides contamination, as well as groundwater volatile, semivolatile, and pesticides contamination. The site also presents a continuing threat to the area's sole source aquifer.

Figures

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Appendix A

Test Results

Trans.

TABLE 1 93 MAIN STREET IMMUNOASSAY RESULTS SUMMARY

		Immunoassay Results			Lab Results		
		Concentration Range (PPM)			Concentration Range (PPM)		
Boring Location	Sample Depth (FT)	Chlordane	DDT	2,4-D	Chlordane	DDT	2,4-D
GP-1	17	0.1- 0.6	NA	NA			
GP-2	0 - 4	NA NA	> 20	0.15 - 1.5	149	5.4	nd
GP-3	3	NA NA	NA	NA			
GP-4	5	NA NA	NA	NA			
GP-5	4	NA	NA	NA			
GP-6	15	0.1- 0.6	NA	NA		***	
GP-6 DUP	15	0.1- 0.6	NA	0.15 - 1.5			
GP-7	4 - 5	>6	NA	0.15 - 1.5			
GP-8	16 - 18	0.1- 0.6	NA	0.15 - 1.5			
GP-9	4 - 5	0.1- 0.6	NA	0.15 - 1.5			
GP-10	4 - 8	NA NA	> 20	3 - 150			
GP-10	8 - 12	>0.6	> 20	2 - 3	490	140	nd
GP-11	0 - 4	NA	NA	NA			
GP-12	7 - 8	0.1- 0.6	NA	NA			
GP-12	10 - 11	NA NA	NA	NA			
GP-13	12 - 13	NA NA	NA	NA			
GP-13	17 - 18	0.1- 0.6	NA	0.15 - 1.5			
GP-14	10 - 12	NA NA	NA	0.15 - 1.5			
GP-15	17 - 18	0.1- 0.6	NA	0.15 - 1.5			
GP-16	11 - 12	>0.6	NA	0.15 - 1.5			
GP-17	16 - 17	>0.6	2 - 20	0.15 - 1.5			
GP-18	3 - 4	NA NA	NA	NA			
GP-19	4 - 5	>0.6	NA	0.15 - 1.5			
GP-20	10 - 12	NA NA	NA	0.15 - 1.5	nd	nd	nd
GP-21	14 - 15	NA	NA	0.15 - 1.5	_		
GP-21 DUP	14 - 15	NA NA	NA	0.15 - 1.5			
GP-22	3.5 - 4	>0.6	NA	NA	0.62	0.047	nd
GP-23	5 - 6	NA	NA	NA			
GP-24	5 - 6	NA	NA	0.15 - 1.5			
GP-25	5 - 6	NA	NA	NA			
GP-26	0.5 - 1	>0.6	NA	0.15 - 1.5			
GP-26	14 - 15	>0.6	NA	0.15 - 1.5			
GP-27	0.5 - 1	>0.6	NA_	NA			
GP-27	9 - 10	>0.6	NA	NA			
GP-28	0.5 - 1	NA	NA	NA			
GP-28	8 - 9	NA NA	NA	NA	<u> </u>		
GP-29	0.5 - 1	NA	NA	0.15 - 1.5			
GP-30	0.5 - 1	NA	NA	NA			
GP-31	0.5 - 1	>0.6	NA	1.5 - 7.5			
GP-31 DUP	0.5 - 1	>0. <u>6</u>	NA	1.5 - 7.5			
GP-31	19 - 20	>0.6	> 20	1.5 - 7.5			
GP-32	18 - 19	>0.6	> 400	1.5 - 7.5			
GP-33	12 - 13	>0.6	> 20	1.5 - 7.5			

TABLE 1 (Continued) 93 MAIN STREET IMMUNOASSAY RESULTS SUMMARY

		Immunoassay Results			Lab Results		
		Concentration Range (PPM)			Concentration Range (PPM)		
Boring Location	onSample Depth (FT)	Chlordane	DDT	2,4-D	Chlordane	DDT	2,4-D
GP-34	12 - 13	>0.6	NA	0.15 - 1.5			
GP-35	12 - 13	>0.6	NA	0.15 - 1.5			
GP-36	4 - 5	NA	NA	NA			
GP-37	4 - 5	NA	NA	NA			
GP-38	0.5 - 1	NA	NA	NA			
GP-39	4 - 5	>0.6	NA	NA			
GP-40	4 - 5	NA	NA	0.15 - 1.5			
GP-41	4 - 5	NA	NA	NA			
GP-42	3.5 - 4	0.1- 0.6	NA	0.15 - 1.5			
GP-43	3.5 - 4	NA	NA	NA			
GP-44	3.5 - 4	0.1- 0.6	NA	0.15 - 1.5			
GP-45	3.5 - 4	NA	NA	0.15 - 1.5			
GP-46	2 - 2.5	NA	NA	0.15 - 1.5			
GP-46 DUP	2 - 2.5	NA	NA	NA			
GP-47	0.5 - 1	NA	NA	0.15 - 1.5			
GP-48	0 - 2	0.1- 0.6	NA	0.15 - 1.5	0.028	0.013	nd
GP-49	2 - 3	NA NA	NA	0.15 - 1.5			
GP-50	0 - 2	NA	NA	0.15 - 1.5			
GP-51	16 - 17	>0.6	2 - 20	> 7.5			
GP-52	16 - 17	0.1- 0.6	NA	NA NA		_	

TABLE 2 TEST PITSSOIL SAMPLE ANALYTICAL RESULTS 93 MAIN STREET

Location I.D.			TE	ST PIT 1	TE	ST PIT 1	T	EST PIT 5
Sample I.D.	MS	MSTP1ASE		MSTP1DW Soil		MS-981210-TP5 Soil		
Matrix	Soil							
Date Sampled			1	1/18/98	1	1/18/98		12/10/98
Parameter	Units	Criteria*						
Volatiles								
Methylene Chloride	UG/KG	100						
Chlorobenzene	UG/KG	1700						240
Ethylbenzene	UG/KG	5500						290
Xylene (total)	UG/KG	1200						2900
Semivolatiles								
1,2,4-Trichlorobenzene	UG/KG	3400						
Naphthalene	UG/KG	13000						
2-Methylnaphthalene	UG/KG	36400				300		6600
2,4,5-Trichlorophenol	UG/KG	100						
Acenaphthylene	UG/KG	41000						
Acenaphthene	UG/KG	50000						
4-Nitrophenol	UG/KG	100						
Fluorene	UG/KG	50000						
Phenanthrene	UG/KG	50000		87				
Anthracene	UG/KG	50000		_				
Carbazole	UG/KG				1			
Di-n-butylphthalate	UG/KG	8100						
Fluoranthene	UG/KG	50000		280		190		
Pyrene	UG/KG	50000		350		460		
Butylbenzylphthalate	UG/KG	50000		42				<u>-</u>
Benzo(a)anthracene	UG/KG	224		130		100		
Chrysene	UG/KG	400		150		130		_
bis(2-Ethylhexyl)phthalate	UG/KG	50000		160		230		
Benzo(b)fluoranthene	UG/KG	224		350		190		
Benzo(k)fluoranthene	UG/KG	224		140		83		
Benzo(a)pyrene	UG/KG	61		170		110	\supset	
Indeno(1,2,3-cd)pyrene	UG/KG	3200		64		83		
Dibenz(a,h)anthracene	UG/KG	14						
Benzo(g.h.i)perylene	UG/KG	50000		62		150		
PEST								
alpha-BHC	UG/KG	110						
beta-BHC	UG/KG	200					1	
delta-BHC	UG/KG	300		430		2600	7	4900
gamma-BHC (Lindane)	UG/KG	60						

^{* -} TAGM #4046 (Revised April, 1995) Criteria. Only detected results reported.

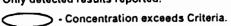


TABLE 2 TEST PITS-SOIL SAMPLE ANALYTICAL RESULTS 93 MAIN STREET

Location I.D.			TEST PIT 1	TEST PIT 1	TEST PIT 5
Sample I.D.	MSTP1ASE	MSTP1DW	MS-981210-TP5		
Matrix	Soll	Soll	Soil		
Date Sampled			11/18/98	11/18/98	12/10/98
Parameter	Units	Criteria*			
PEST					
Heptachlor	UG/KG	100	4600		22000
Aldrin	UG/KG	41	530		46000
Heptachlor epoxide	UG/KG	20			
Endosulfan I	UG/KG	900			
Dieldrin	UG/KG	44	630		97000
4,4'-DDE	UG/KG	2100			3900
Endrin	UG/KG	100	650		19000
Endosulfan II	UG/KG	900			
4,4'-DDD	UG/KG	2900	2900		69000
Endosulfan sulfate	UG/KG	1000			
4,4'-DDT	UG/KG	2100	4000		32000
Endrin aldehyde	UG/KG				
alpha-Chlordane	UG/KG		23000	55000	220000
gamma-Chlordane	UG/KG	540	21000	46000	230000
HERB					
2.4.5-TP (Silvex)	UG/KG	700	77		500
2.4.5-T	UG/KG	1900	230	73	190
Metals					
Aluminum	MG/KG		6090	6520	7770
Antimony	MG/KG				
Arsenic	MG/KG	7.5	6.6	6.1	19.1
Barium	MG/KG	300	69.2	55.8	51.2
Beryllium	MG/KG	0.16	0.40	0.34	0.43
Cadmium	MG/KG	10	0.81	0 71	2.2
Calcium	MG/KG		21900	27100	14000
Chromium	MG/KG	50	12.8	13.1	13.2
Cobalt	MG/KG	30	8.2	8.0	7.4
Copper	MG/KG	25	31.5	30.8	32.9
Iron	MG/KG	2000	20200	16100	18400
Lead	MG/KG		163	198	113
Magnesium	MG/KG		6270	7020	4890
Manganese	MG/KG		650	418	460
Mercury	MG/KG	0.1			0.17
Nickel	MG/KG	13	19.7	17.5	16.4

^{* -} TAGM #4046 (Revised April, 1995) Criteria.

Only detected results reported.



- Concentration exceeds Criteria.

TABLE 2 TEST PITSSOIL SAMPLE ANALYTICAL RESULTS 93 MAIN STREET

Locatio	n I.D.		TEST PIT 1	TEST PIT 1	TEST PIT 5
Sample	I.D.	MSTP1ASE	MSTP1DW	MS-981210-TP5	
Matr	ix	Soli	Soil	Soil	
Date Sa	11/18/98	11/18/98	12/10/98		
Parameter	Units	Criteria*			
Metals					
Polassium	MG/KG		678	600	579
Selenium	MG/KG	2			
Silver	MG/KG		0.63	0.69	R
Sodium	MG/KG		273	317	469
Vanadium	MG/KG	150	21.1	20.4	14.2
Zinc	MG/KG	20	(161)	185	194
Cyanide	MG/KG		R	R	0.50

^{* -} TAGM #4046 (Revised April, 1995) Criteria.



Location I.	<u> </u>		MW-3	MW-4	MW-6	MW-6
Sample i.I	MS-981202-MW3	MS-981202-MW4	MS-981201-MW6	MS-981201-MW6D		
Matrix	Water	Water	Water	Water		
Date Sampled			12/02/98	12/02/96	12/01/98	12/01/98
	Units	Criteria*				
Parameter	Onits	Criteria				DUP
Volatiles						
Acetone	UG/L	50			24	21
1,2-Dichloroethane	UG/L	0.6			74	83
Benzene	UG/L	1			64	\sim 72
4-Methyl-2-Pentanone	UG/L	50			21	22
Tetrachloroethene	UG/L	5			28	34
Toluene	UG/L	5			78	89
Chlorobenzene	UG/L	5			110	120
Ethylbenzene	UG/L	5			110	120
Xylene (total)	UG/L	5			580	650
Semivolatiles						
2.4-Dichlorophenol	UG/L	5		_	1400	1000
Naphthalene	UG/L	10		_	140	51
2-Methylnaphthalene	UG/L				12	27
2.4,5-Trichlorophenol	UG/L	1			1500	1200
Pentachlorophenol	UG/L	1			25	
bis(2-Ethylhexyl)phthalate	UG/L	5	3	5		
PEST						
alpha-BHC	UG/L	0.01				_
beta-BHC	UG/L	0.04				
delta-BHC	UG/L	0.04				
gamma-BHC (Lindane)	UG/L	0.05			91	78
Heptachior	UG/L	0.04				
Aldrin	UG/L					
Heptachlor epoxide	UG/L	0.03				
Endosulfan I	UG/L	50				
Dieldrin	UG/L	0.004			13	$\bigcirc 12 \bigcirc$
4.4'-DDE	UG/L	0.2				
Endrin	UG/L					
4,4'-DDD	UG/L	0.3				
Endosulfan sulfate	UG/L	50				
4,4'-DDT	UG/L	0.2				
Endrin ketone	UG/L	5				
alpha-Chlordane	UG/L	0.05				
gamma-Chlordane	UG/L	0.05				

^{* -} T.O.G.S 1.1.1 (Revised June, 1998) Criteria.

Only detected results reported.

- Concentration exceeds Criteria.

Location I.D. Sample I.D. Matrix			MSGP10WG	MSGPSB39WG	MSGPSB42WG	MW-1	MW-2
			MSGP10WG Water	MSGPSB39WG	MSGPSB42WG	MS-981201-MW1 Water	MS-981201-MW2 Water 12/01/98
				Water	Water		
Date Sampled		11/03/98	11/05/98	11/05/98	12/01/98		
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA NA			
1,2-Dichloroethane	UG/L	0.6	. NA	NA NA	5		
Benzene	UG/L	1	NA	NA			
4-Methyl-2-Pentanone	UG/L	50	NA	NA			
Tetrachloroethene	UG/L	5	NA	NA			
Toluene	UG/L	5	NA	NA			
Chlorobenzene	UG/L	5	NA	NA			
Ethylbenzene	UG/L	5	NA	NA NA			
Xylene (total)	UG/L	5	NA	NA NA			
Semivolatiles							
2,4-Dichlorophenol	UG/L	5	NA	NA			
Naphthalene	UG/L	10	NA	NA			
2-Methylnaphthalene	UG/L		NA	NA			
2,4,5-Trichlorophenol	UG/L	1	NA	NA			
Pentachlorophenol	UG/L	1	NA	NA NA			
bis(2-Ethylhexyl)phthalate	UG/L	5	NA	NA		2	2
PEST							
alpha-BHC	UG/L	0.01		0.64	0.057		
beta-BHC	UG/L	0.04		0.59	0.17	0.16	
delta-BHC	UG/L	0.04		0.96	0.14	0.11	
gamma-BHC (Lindane)	UG/L	0.05	1600	55	4.8	}	
Heptachlor	UG/L	0.04		1.0	0.22		
Aldrin	UG/L			0.80	0.26		
Heptachlor epoxide	UG/L	0.03			0.10	0.11	
Endosulfan i	UG/L	50			0.060		
Dieldrin	UG/L	0.004	190	12	11	9.6	
4.4'-DDE	UG/L	0.2			0.10	0.11	
Endrin	UG/L				0.70	0.80	
4,4'-DDD	UG/L	0.3	210	8.6	2.4		
Endosulfan sulfate	UG/L	50			0.14		
4.4'-DDT	UG/L	0.2	460	9	3.1		
Endrin ketone	UG/L	5			0.59	1.1	
alpha-Chiordane	UG/L	0.05	120	5.9	2.8	0.12	
gamma-Chlordane	UG/L	0.05	93	4.1	2.0	0.088	

^{* -} T.O.G.S 1.1.1 (Revised June, 1998) Criteria.

Only detected results reported.

- Concentration exceeds Criteria.

Location I.D. Sample I.D. Matrix Date Sampled			MSGP10WG MSGPSB39WG		MSGPSB42WG	MW-1	MW-2
			MSGP10WG	MSGPSB39WG Water 11/05/98	MSGPSB42WG	MS-981201-MW1 Water	MS-981201-MW2 Water 12/01/98
			Water		Water		
			11/03/98		11/05/98	12/01/98	
Parameter	Units	Criteria*					
HERB							
Dicamba	UG/L	0.44	3.0			R	R
2,4-D	UG/L	50		1.2		R	R
Metals							
Aluminum	UG/L		NA	NA	61900	1350	1280
Arsenic	UG/L	25	NA	NA	106		6.0
Barium	UG/L	1000	NA	NA	1610	98.9	141
Beryllium	UG/L	3	NA	NA	6.2		
Calcium	UG/L		NA	NA	1190000	132000	165000
Chromium	UG/L	50	NA	NA	174	3.1	2.9
Cobalt	UG/L		NA	NA	R	12.7	15.0
Copper	UG/L	200	NA	NA	448	2.0	
Lead	UG/L	25	NA	NA	226		
Magnesium	UG/L	35000	NA	NA	233000	34300	23100
Manganese	UG/L		NA	NA	20600	797	851
Mercury	UG/L	0.7	NA	NA	6.7		
Nickel	UG/L	100	NA NA	NA	78.5	3.0	1.5
Potassium	UG/L		NA	NA	36900	12600	2870
Selenium	UG/L	10	NA	NA	8.2		
Sodium	UG/L	20000	NA	NA	33400	35300	11600
Vanadium	UG/L		NA	NA	147	8.6	6.7
Zinc	UG/L	2000	NA	NA	656	16.8	18.1
Cyanide	UG/L	200	NA	NA	10.9		

Only detected results reported.



Concentration exceeds Criteria.

^{* -} T.O.G.S 1.1.1 (Revised June, 1998) Criteria.

Location			MW-3	MW-4	MW-6	MW-6 MS-981201-MW6D	
Sampl			MS-981202-MW3	MS-981202-MW4	MS-981201-MW6		
Mat	12/02/98	Water	Water	12/01/98			
Date Sa		12/02/98	12/01/98				
Parameter	Units	Criteria*				DUP	
HERB							
Dicamba	UG/L	0.44			1.7	2.6	
2,4-D	UG/L	5 0					
Metals							
Aluminum	UG/L		1720	218	1200	162	
Arsenic	UG/L	25	4.1		19.2	19.0	
Barium	UG/L	1000	76.5	53.9	104	114	
Beryllium	UG/L	3					
Calcium	UG/L		99300	106000	123000	121000	
Chromium	UG/L	5 0	3.5	0.72	3.4	1,4	
Cobalt	UG/L		8.9	9.1	11.3	10.8	
Copper	UG/L	200	2.7				
Lead	UG/L	25					
Magnesium	UG/L	35000	15500	16000	23000	22300	
Manganese	UG/L		750	502	1770	1760	
Mercury	UG/L	0.7					
Nickel	UG/L	100	1.5		3.0	1.9	
Potassium	UG/L		6100	2730	16400	9440	
Selenium	UG/L	10					
Sodium	UG/L	20000	19800	34500	60200	57400	
Vanadium	UG/L		6.6	2.2	6.0	3.9	
Zinc	UG/L	2000	26.3	10.0	25.8	17.0	
Cyanide	UG/L	200		120			

Only detected results reported.



- Concentration exceeds Criteria.

^{*-}T.O.G.S 1.1.1 (Revised June, 1998) Criteria.

TABLE 4 SUMMARY OF DETECTED ANALYTES 93 MAIN ST.

Location I.D. Sample I.D. Matrix Date Sampled			MW-01 MW-1 Water	MW-06	MW-07 MW-7 Water 09/29/99	MW-08	MW-09
				MW-6 Water		MW-8	MW-9
						Water	Water
			09/29/99	09/29/99		09/29/99	09/29/99
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50				62	55
Chloroform	UG/L	7		2			
1,2-Dichloroethane	UG/L	0.6		31		6	
Methyl Ethyl Ketone (2-Butanone)	UG/L	50		1			
Benzene	UG/L	1		48			
4-Methyl-2-Pentanone	UG/L	NV	_	4			
Tetrachioroethene	UG/L	5	_	15			
Toluene	UG/L	5		19			
Chlorobenzene	UG/L	5		72			_
Ethylbenzene	UG/L	5		67			
Xylene (total)	UG/L	5	-	130			
Semivolatiles					_		
Phenol	UG/L	1		2			
2-Chlorophenol	UG/L	1		5			
1,4-Dichlorobenzene	UG/L	3		4			
2-Methylphenol (o-cresol)	UG/L	1		2			
4-Methylphenol (p-cresol)	UG/L	1		4			
2,4-Dichlorophenol	UG/L	5		330		6	
2,4-Dimethylphenol	UG/L	50		2			
Naphthalene	UG/L	10		28			
2,4,5-Trichlorophenol	UG/L	1		440		5	
Pentachlorophenol	UG/L	1		12			
Phenanthrene	UG/L	50		3	_		
Fluoranthene	UG/L	50		4			
Pyrene	UG/L	50		3			
Butylbenzylphthalate	UG/L	50			1		
Di-n-butylphthalate	UG/L	50					1
Benzo(a)anthracene	UG/L	0.002					
Chrysene	UG/L	0.002		1			
bis(2-Ethylhexyl)phthalate	UG/L	5		7	2		
Benzo(b)fluoranthene	UG/L	0.002		2			_
Benzo(a)pyrene	UG/L	ND			_		
Pesticides							
alpha-BHC	UG/L	0.01		1.5			

^{*-}New York State Department of Environmental Conservation. 1998. Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June, Class GA.
Only detected results reported.

 ⁻ Concentration exceeds Standard or Guidance Value.

TABLE 4 SUMMARY OF DETECTED ANALYTES 93 MAIN ST.

Location I.D. Sample I.D. Matrix Date Sampled			MW-01 MW-06		MW-07	MW-08	MW-09
			MW-1	MW-6	MW-7 Water 09/29/99	MW-8 Water	MW-9 Water 09/29/99
			Water	Water			
			09/29/99	09/29/99		09/29/99	
Parameter	Units	Criteria*					
Pesticides							
beta-BHC	UG/L	0.04	0.14	0.89		0.097	
delta-BHC	UG/L	0.04	0.13	1.2	}	0.14	
gamma-BHC (Lindane)	UG/L	0.05		78		0.68	
Heptachlor epoxide	UG/L	0.03	0.071				
Dieldrin	UG/L	0.004	1.5	11		0.35	
Endrin	UG/L	ND	0.15		-		
Endrin ketone	UG/L	5	0.51	1.0		0.11	
alpha-Chlordane	UG/L	0.05	0.064	1.0			· · · · · · · · · · · · · · · · · · ·
gamma-Chlordane	UG/L	0.05	0.059	R			
Herbicides		······································					
Dicamba	UG/L	0.44		NA		2.3	
2,4,5-TP (Silvex)	UG/L	0.26		NA		7.5	
2,4,5-T	UG/L	35		NA		0.35	

^{*-}New York State Department of Environmental Conservation. 1998. Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June, Class GA. Only detected results reported.

⁻ Concentration exceeds Standard or Guidance Value.

TABLE 4 SUMMARY OF DETECTED ANALYTES 93 MAIN ST.

Location I.D.	Location I.D.										
Sample I.D.		MW-10									
Matrix	Matrix										
Date Sampled			09/29/99								
Parameter	Units	Criteria*	_								
Volatiles											
Acetone	UG/L	50									
Chloroform	UG/L	7	3								
1.2-Dichloroethane	UG/L	0.6									
Methyl Ethyl Ketone (2-Butanone)	UG/L	50									
Benzene	UG/L	1									
4-Methyl-2-Pentanone	UG/L	NV									
Tetrachloroethene	UG/L	5									
Toluene	UG/L	5									
Chlorobenzene	UG/L	5									
Ethylbenzene	UG/L	5									
Xylene (total)	UG/L	5									
Semivolatiles											
Phenol	UG/L	1									
2-Chlorophenol	UG/L	1									
1,4-Dichlorobenzene	UG/L	3									
2-Methylphenol (o-cresol)	UG/L	1									
4-Methylphenol (p-cresol)	UG/L	1									
2,4-Dichlorophenol	UG/L	5									
2,4-Dimethylphenol	UG/L	50									
Naphthalene	UG/L	10									
2.4.5-Trichlorophenol	UG/L	1									
Pentachlorophenol	UG/L	1									
Phenanthrene	UG/L	50	2								
Fluoranthene	UG/L	50									
Pyrene	UG/L	50									
Butylbenzylphthalate	UG/L	50									
Di-n-butylphthalate	UG/L	50									
Benzo(a)anthracene	UG/L	0.002									
Chrysene	UG/L	0.002									
bis(2-Ethylhexyl)phthalate	UG/L	5									
Benzo(b)fluoranthene	UG/L	0.002									
Benzo(a)pyrene	UG/L	ND									
Pesticides		-									
alpha-BHC	UG/L	0.01									

^{*-}New York State Department of Environmental Conservation. 1998. Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June, Class GA.
Only detected results reported.

Concentration exceeds Standard or Guidance Value.

TABLE 4 SUMMARY OF DETECTED ANALYTES 93 MAIN ST.

Location i.	MW-10		
Sample 1.D	MW-10		
Matrix	Water		
Date Sample		09/29/99	
Parameter	Units	Criteria*	
Pesticides			
beta-BHC	UG/L	0.04	0.05
delta-BHC	UG/L	0.04	
gamma-BHC (Lindane)	UG/L	0.05	
Heptachlor epoxide	UG/L	0.03	0.094
Dieldrin	UG/L	0.004	0.27
Endrin	UG/L	ND	0.15
Endrin ketone	UG/L	5	
alpha-Chlordane	UG/L	0.05	
gamma-Chlordane	UG/L	0.05	
Herbicides			
Dicamba	UG/L	0.44	
2,4,5-TP (Silvex)	UG/L	0.26	
2,4,5-T	UG/L	35	

^{*-}New York State Department of Environmental Conservation. 1998. Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June, Class GA.
Only detected results reported.

TABLE 5 SUMMARY OF DETECTED ANALYTES 93 MAIN ST.

Location I.I		BH-01		BH-01			BH-02			BH-03D			BH-04	
Sample I.D			Вн	l-1 (18'- <u>20')</u>	BH-1 (4'-6')			BH-2 (2'-4')			BH-3D (6'-10')		')	BH-4 (6'-8'
Matrix				Soil		Soll			Soil			Soil		Soil
Date Sample		09/23/99	0	9/23/99		0	9/23/99		09/23/99			09/23/99		
Parameter	Units	Criteria*												
Pesticides														
alpha-BHC	UG/KG	110		360		79					$\overline{}$	3000	\geq	
gamma-BHC (Lindane)	UG/KG	60		1400		420	\supset)				6400	\geq	2.8
Heptachlor	UG/KG	100		4900		160	\bigcap	V	450	\supset		150000	\geq	47
Aldrin	UG/KG	41							42	\supset				2.7
Heptachlor epoxide	UG/KG	20				46	\supset				$\overline{\ }$	7200		
Dieldrin	UG/KG	44		820										
4,4'-DDE	UG/KG	2100				70			620		\setminus	12000	\supset	4.0
4,4'-DDD	UG/KG	2900		1900		R			290		$\overline{}$	52000		15
4,4'-DDT	UG/KG	2100		6300		1000			1300		$\overline{<}$	150000	\geq	45
alpha-Chlordane	UG/KG	540		8500		210		$\overline{}$	940	\supset		280000	\supset	99
gamma-Chlordane	UG/KG	540		8600		250		$\overline{}$	1000	7	7	280000		96

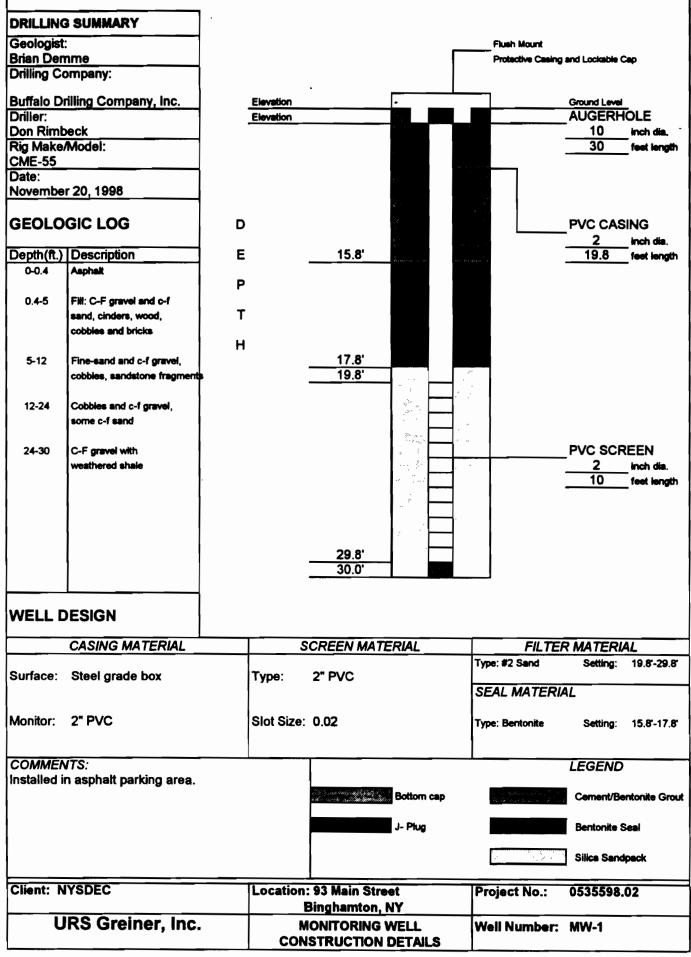
Only detected results reported.

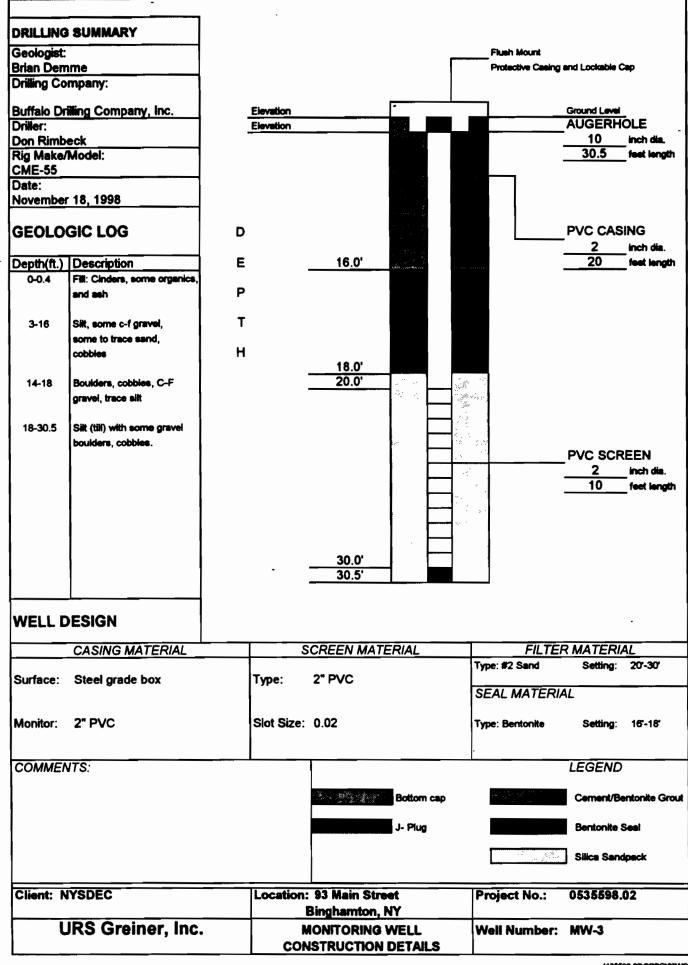
Concentration exceeds Standard or Guidance Value.

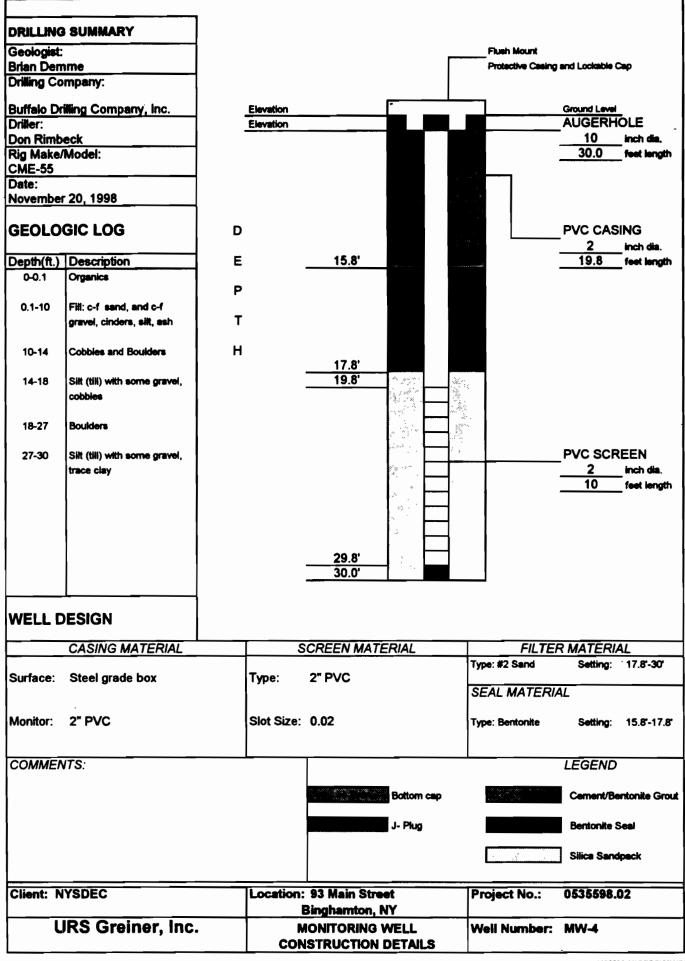
^{* -} NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 April 1, 1995 (Revised).

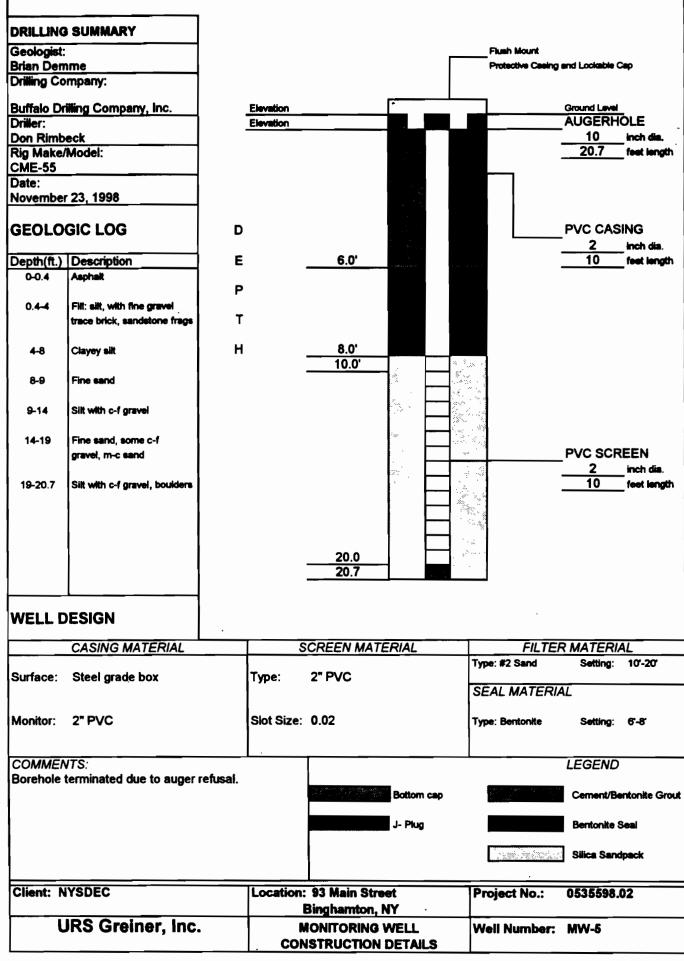
Appendix B

Monitoring Well Details

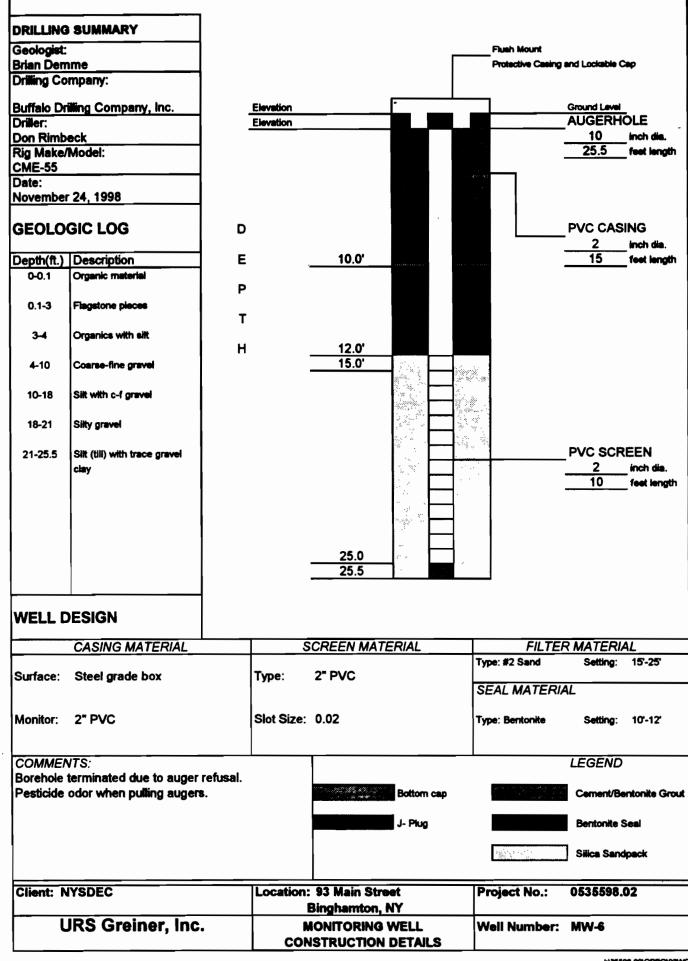








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Appendix C

Boring Logs

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	ENT:		15D	EC										JOB NO.: 3	355	98.0)2	
BOF	BORING CONTRACTOR: BUFFALO DRILLING COMPANY INC											BORING LOCA	TION:	N.119 E.105	13374 1427	5.6051 0646		
GRO	UNDWAT	ER:							CAS.		PLER	CORE	TUBĘ	GROUND ELEV				
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├.	2 5 18 40% BROWN DENSE -5-050 3 55 48 501 50% BROWN 050 5 19 24 100 BROWN MOIST-DRY																	
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050 4 55 19 24 40% Beauty 6 Moist - Day Moist - Day Moist - Day															I I			
	050 4 55 19 24 40% Beauty 050 4 55 19 24 40% Gray -10 - 5 5 55 501 - 30% LT.GRAY DANK SILT (TILL) ML Slow.																	
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BOR	ING CONT	_			AL	o Dei	illu	NG (°AMD.	ANV	IM	<u> </u>		BORING LOCAT		N.119	2200.	4146 05 8 4	
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				SAM							0	ESCRIP					RÉMARK	
DEPTH FEET	STRATA	NO.	TYPE	BLO PER		RECOVERY RQD %	co	LOR	CONSIS HARD		1		MATE			USCS	MOISTURE	PID
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	XX	2 45 2 3 -5% Black LOOSE FILL: C-+ SAND AND CO GRAVEL, WITH CINDERS 2 45 2 3 -5% Black LOOSE SILTANO.															Moist	5-10
	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	2 55 2 3 5% Black Loave 3 5 4 11 50% Brown SILTANO 1															Dry	11
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-5-	$\times\!\!\times$	3 4 50% RED/ Brown Geay MEDIUM DEASE															Very Moist WETC5'	11
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11-23		_	4'	_		o libit	ee	DIA.	_	2"				DATE FINISHED	:		-98		
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PROJECT: 93 MAIN STREET - BINGHAMTON - NY SHEET: 1 OF 1 CLIENT: NYSDEC BORING CONTRACTOR: GEOLOGIC NY INC. GROUNDWATER: CAS. SAMPLER CORE TUBE GROUND ELEVATION: DATE TIME LEVEL TYPE TYPE Plastic Sleeve DATE STARTED: 1 - 4 - 98 11-4 23' SOIL IS WET DIA 11%" ID DATE FINISHED: 1 - 4 - 98 WIT. PERCUSSION DRILLER: STENE LARA MEE POCKET PENETROMETER READING REVIEWED BY: DASSING LOCASISTENCY DESCRIPTION SAMPLE DESCRIPTION REMARKS POPTH FEET NO. TYPE BLOWS RECOVERY ROD'S COLOR CONSISTENCY DESCRIPTION ASPHALT 0.4" BORING NO.: GP# 22 JOB NO.: 35598.02 BORING LOCATION: SET SITE PLAY. BORING NO.: GP# 22 JOB NO.: 35598.02 BORING LOCATION: SET SITE PLAY. BORING LOCATION: SET SIT						,	ID	S C	-	" T		-		·····	GE	OF	PRO	BE LOG	_
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COMMENTS: Macro-Core advanced with Geoprobe GH-40 Direct Push Rig. DORNOUS CONTRACTORS: SET STITE PLAY. JORNAL CONTRACTORS: SET STITE PLAY. SORING CONTRACTO	PRO	JECT:	9	3	M	Aik	1 5	TREE	Τ-	- Bi	NGH	AM'	TON	- NY					
COMMENTS: CAS. SAMPLE ORE TIME AROUND REPVATIONS: CAS. SAMPLE TYPE TYPE PRINTED AND SINCE SINCE AND STREET A	CLIE	NT:	N	Y:	SDE	<u>≤</u> C								<u>.</u>	JOB NO.: 3	555	598.	02	
DATE TIME LEVEL TYPE TYPE Plastic Sleeve DATE STATTED: -4 - 98 11-9 23' Soil is Wet DA. 14' ID DATE PROBRED: -4 - 98 WT. Percussion DALLER: -4 - 98 FALL N/A DECOLORITY TOWN DESCRIPTION SAMPLE PROBRED: -4 - 98 FALL N/A DECOLORITY TOWN DESCRIPTION PET STRATA NO. TYPE PER R ROOS COLOR CONSISTENCY DESCRIPTION PET STRATA NO. TYPE PER R ROOS COLOR CONSISTENCY DESCRIPTION PET DESCRIPTION REMARKS DESCRIPTION PET DESCRIPTION REMARKS DESCRIPTION PET DESCRIPTION PROPRIET PET DESCRIPTION PET D	BOR	ING CO	TRA	сто)R: (-	380	sLα	SIC I	VY	I)	SC.								r
SAMPLE DIA 15" ID DATE PINSHED: 1 - 4 - 98	GRO	UNDWA	TER:								CAS.	SAM	PLER	CORE TUBE					
PROJECT PENETROMETER READING NIA GEOLOGIST: DELAN DEMME PALL PALL PALL POCKET PENETROMETER READING NIA GEOLOGIST: DELAN DEMME PROCET PENETROMETER READING NICK DELAN DEMME PROCET PENETROMETER READING NICK DELAN DEMME PROCET PENETROMETER READING NICK DELAN DEMME PROCET PENETROMETER READING NICK DELAN DEMME PROCET PENETROMETER READING NICK DELAN DEMME PROCET PENETROMETER READING NICK DELAN DEMME PROCET PENETROMETER READING NICK DELAN DELAN DELAN DESCRIPTION UICS NICK DELAN DESCRIPTION UICS NICK DELAN DELAN DESCRIPTION UICS NICK DELAN DELA				LE	VEL			YPE		TYPE				Plastic Sleeve	DATE STARTE	D:	11-4	-98	
PALL NIA GEOLOGIST: DEAM DEMME **POCKET PENETROMETER READING REVIEWED BY: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED: **POCKET POCKET PUSH REVIEWED:	11-4	<u> </u>	4	23	31	5	OIL	is WE		DIA.				1%" ID	DATE FINISHED	D:	1-4	98	
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Brown DRANGE FINE-CARSE SIMD RID SW GRAVEL SHATTIFED GW SICT, C-F SAND SOS SOS SICT, C-F SAND END of BORING AT 23' FINE-CARSE SIMD RID SW GW SICT, C-F SAND END of BORING AT 23' FOR AVAILUSIS.		RED/ Brown/															5-10		
DRAINGE COMMENTS: Macro-Core advanced with Geoprobe GH-40 Direct Push Rig PROJECT NO: 35598.02 COMMENTS: Macro-Core advanced with Geoprobe GH-40 Direct Push Rig PROJECT NO: 35598.02		Brown/ ORANGE SANCSTONE FRAGS COSINES, WWD, GLASS WWD, GLASS																	
The Coarse Sand And GW Sharifie	_	Brown/ ORANGE Brown/ ORANGE Brown/ FINE-COARSE SAND AND SW_																	
GRAVEL SHAFIFED GW COACSE - FINE GRAVEL GM AND CORRES, WITH SOME SICT, C-F SAND SICT, C-F SAND COMMENTS: Macro-Core advanced with Geoprobe GH-40 Direct Push Rig PROJECT NO: 35598.02		FINE-COARSE SAND AND SW GRAVEL STRATIFIED GW																	
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BORNIA CONTRACTOR GYCOSIC NY INC. BORNIA CONTRACTO														BORING NO.	: ح	P#4	7		
BORING CONTRACTOR: GRYCOSIC NY INC. GROUDWATER: DATE TIME LEVEL TYPE DAA BAMPLER CORE TUBE GROUND ELEVATION: DAA 15/10 D DATE PRINSED: 1-6-98 DAA 15/10 D DATE PRINSED: 1-6-98 WIT. PETCUSSION DRILLER: JUDSCAN POLICEL PALL N/A GEOLOGIST: GEAM DEPONES POCKET PENETROMETER REDORM REVIEWED BY: DEPTH STRATA NO. TYPE PERF RECORET BORNING LOCATION: SEEF STITE PLAN WIT. PETCUSSION DRILLER: JUDSCAN POLICEL POCKET PENETROMETER REDORM REVIEWED BY: DEPTH STRATA NO. TYPE PERF RECORET BORNING LOCATION: DATE PRINSED: 1-6-98 DEPTH STRATA NO. TYPE PERF RECORET SAMPLE BORNING LOCATION: DATE PLAN NAME GROUND ELEVATION: JUDSCAN DEPTH DATE PRINSED: 1-6-98 DEPTH STRATA NO. TYPE PERF RECORET FILL SILT WITH CF GGREEL SOME C-F SAND, ASH SULTA WITH CF GGREEL SOME C-F SAND, ASH SULTA WITH CF GGRAEL DAY SELT WITH CF GGRAEL DAY SELT WITH CF GGRAEL AND COARSE-FINE GRAEL DAY SELT WITH CF GGRAEL AND COARSE-FINE GRAEL DAY TOTAL ANALYSI SELD OF BORING ANALYSI PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35598.00 PROJECT NO. 35599.00 PROJECT NO.	PRO	JECT:				Stree	<u> </u>	Bin	6H.	OPMA	<u> </u>	17		SHEET: 1	OF]	l			
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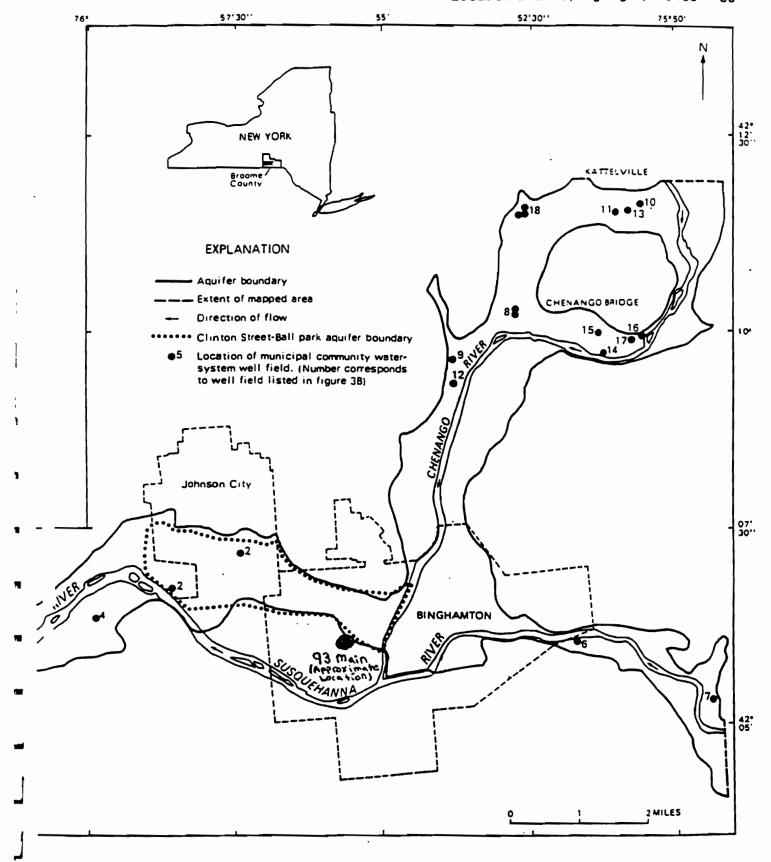
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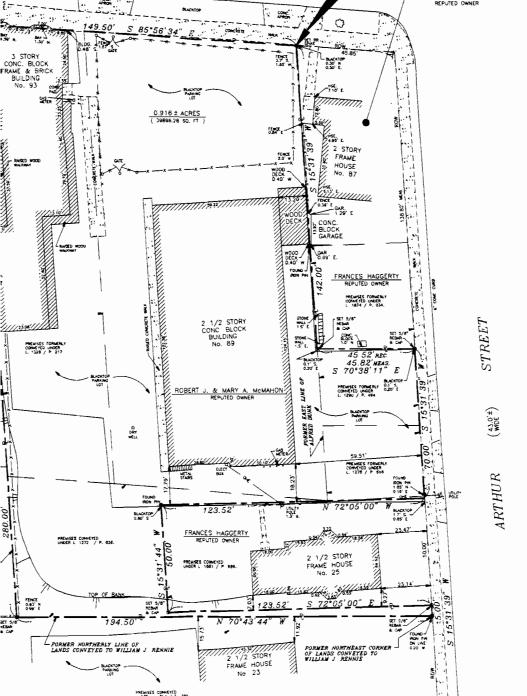
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Appendix D

Aquifer Boundaries

FIGURE 3A ENDICOTT-JOHNSON CITY AREA Location and major geographic teal es





County of Broome and State of New York, more particularly bounded and described as follows:

BEGINNING at a point on the southerly line of Main Street, said point being North 85'56'34' West, 45.85 feet from the intersection of the southerly line of Main Street and the westerly line of Arthur Street;

Thence along a portion of the easterly line of lands formerly conveyed to Alfrea Dunk, South $15^\circ 31^\circ 39^\circ$ West, 142.00 feet to a point,

Theree South 70'38'11" East, 45.82 feet to a point on the westerly line of Arthur Street, said point being 138.82 feet southerly of the first mention intersection point.

Thence southerly along the westerly line of Arthur Street, South 15'31'39" West, 70.00 feet

Thence North 72'05'00" West, 123,52 feet to a point;

Thence South 15'31'44" West, 50.00 feet to a point;

Thence South 72'05'00" East, 123.52 feet to a point on the westerly line of Arthur Street.

Thence sautherly along the westerly line of Arthur Street, South 15'31'39" West, 5.00 feet to a point, said point being the northeast corner of lands formerly conveyed to William J. Rennie,

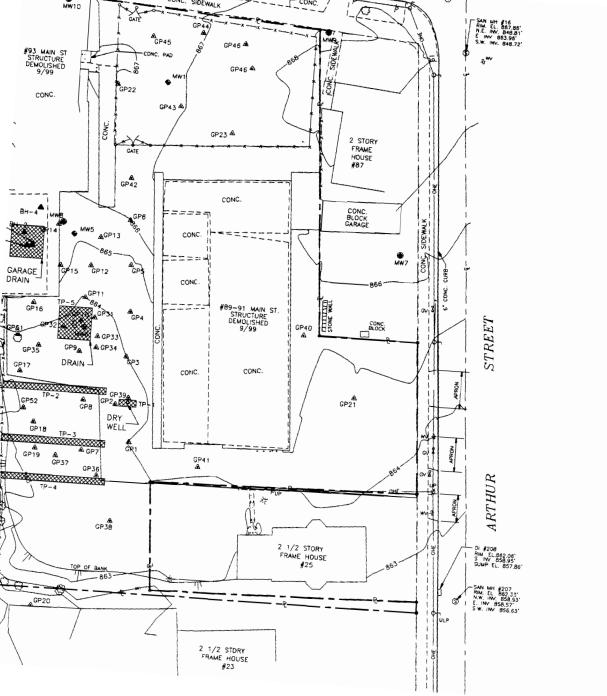
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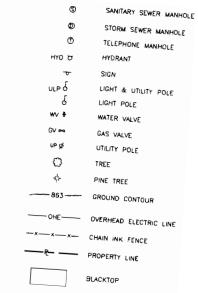
Thence northerly along the easterly line of londs formerly conveyed to George M. Harris and along the easterly line of lands conveyed to Edward P. Hickey, North 15/41/45" East, 280.00 feet to a point on the southerly line of Main Street, said point being the northeasterly conner of lands conveyed to Edward P. Hickey by Deed recorded in Liber 1872 of Deeds at page 578;

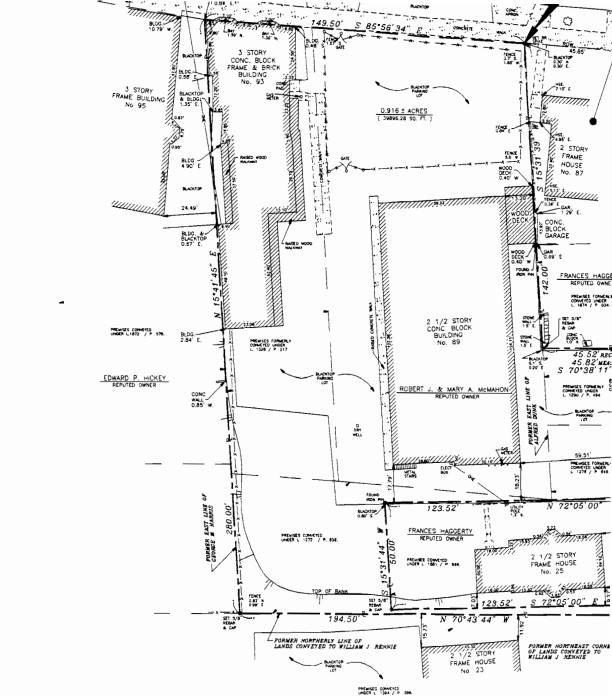
Thence easterly along the southerly line of Main Street, South 85'56'34" East, 149.50 feet to the point or place of beginning.

Containing 39,896.28 Sq. Ft. or 0.92 acres of land more or less.

Being the same premises conveyed to Robert 3 and Mary A. McMahon by Deeds recorded in the Broome County Clerk's Office in Liber 1272 of Deeds at page 836, Liber 1328 of Deeds at page 217, Liber 1276 of Deeds at page 646 and Liber 1290 of Deeds at page 494 and others instruments







<u>NOTES</u>

- HORIZONTAL CONTROL IS BASED UPON THE NEW YORK STATE PLANE COORDINATE STSTEM. CENTRAL ZONE, 1983 ADJUSTMENT NAD 83 (1986)
 - THIS MAP IS VOID UNLESS EMBOSSED WITH MYS LICENSED LAND SURVEYOR LIC NO 49531
 - THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE AND IS SUBJECT TO ANY

