



PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT



CLIENT

PREPARED FOR:

The City of Rochester

City Hall

30 Church Street

Rochester, New York 14614

CLIENT CONTACT:

Mark Gregor (716) 428-5978

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PROPERTY INFORMATION

ADDRESS:

200 East Avenue / 62-64 Scio Street

MUNICIPALITY:

City of Rochester

COUNTY/STATE:

Monroe County, New York

TAX ACCOUNT #:

121.25-1-16 and 106.81-2-57

200 East Avenue: 2.3 acres 62-64 Scio Street: 0.25 acres

IMPROVEMENTS:

PARCEL SIZE:

200 East Avenue: 33,000-square foot, 2-story building: brick construction with basement. Date of construction: 1910

62-64 Scio Street: 22,000-square foot, 2-story

building: brick construction with crawl-space.

Date of construction: 1920

CURRENT USE:

200 East Avenue: automobile storage and parking

62-64 Scio Street: automobile/records storage

CURRENT OWNER:

200 East Avenue, Inc.

PAST USE:

200 East Avenue: automobile dealership

62-64 Scio Street: warehouse

SITE CONTACT:

Charles Fornataro (716) 464-1135

SITE LOCATION MAP:

Attached in Appendix A

SUMMARY OF ENVIRONMENTAL CONCERNS

ENVIRONMENTAL

CONCERNS:

(X) Environmental Concern(s) Identified

() Environmental Concern(s) Not Identified

FURTHER

INVESTIGATION(S):

(X) Further Investigation(s) Recommended

() Further Investigation(s) Not Recommended





ASSESSMENT SUMMARY

Notes:

- 1. Access was not gained to the garage connected to the northwest portion of the service area at the 200 East Avenue facility, or to the western portion of the first floor and the eastern portion of the second floor of the warehouse building located at 62-64 Scio Street. Also, parked cars located in the warehouse at 62-64 Scio Street, and in the northern and southeastern parking lots and service area at 200 East Avenue prevented a complete view of the assessed property. In addition, insufficient lighting in the compressor room and the sump room in the basement of 200 East Avenue, and in the entire warehouse at 62-64 Scio Street prevented a complete visual observation of these areas. Also, in a number of locations throughout the service area at the 200 East Avenue facility, cylindrical metal caps were observed in the cement floor. These caps ranged in size from 0.5" to 6" in diameter and could not be removed Thus, the purpose of these caps could not be for observation. determined. Access was also not gained to the vault located under the northern sidewalk of 200 East Avenue. Thus, this assessment is subject to any state of facts that a complete observation of these areas would reveal.
- 2. An abstract of title was not provided to assist in determining prior property ownership and uses. Investigation of property history, and requests for environmental agency information concerning prior owners, are important elements of a Phase I Environmental Site Assessment. The conclusions in this report are subject to any state of facts which review of an abstract of title might show, directly or indirectly.

ENVIRONMENTAL CONCERNS AND RECOMMENDATIONS:

Based on the investigations performed, the following environmental concerns and recommended actions are identified:

- 1. <u>Suspect Asbestos-Containing Material (SACM):</u> SACM that was observed to be in damaged and/or friable condition is identified as follows (refer to Section 3.5):
 - In excess of 700 linear feet of thermal system pipe insulation (air cell) and associated mudpack joints were observed in the basement of 200 East Avenue. Approximately 5% to 25% of this material was observed to be in damaged/friable condition.
 - Approximately 3,000 to 5,000 square feet of vinyl floor tile was observed in the former parts store located in the southeastern portion of 200 East Avenue. Approximately 5% to 10% of the tiles were observed to be in damaged condition.
 - Approximately 3,000 square feet of acoustical ceiling tile was observed in the second floor office areas of 200 East Avenue. Approximately 15% to 25% of this material was observed to be in damaged/friable condition.



- Approximately 500 square feet of acoustical ceiling tile was observed in the second floor of the cashiers office in the service area. It appeared that removal of a portion of the ceiling tile had been attempted in the tower; however, residual material on the ceiling is in damaged/friable condition.
- In excess of 500 linear feet of thermal system pipe insulation (air cell) was observed in the warehouse building at 62-64 Scio Street. Approximately 5% to 15% of this material was observed to be in damaged/friable condition.

Recommendations: It is recommended that the damaged and/or friable SACM be sampled and analyzed for asbestos. If found to contain asbestos, this damaged and/or friable ACM should be abated (repaired, enclosed, encapsulated, removed, etc.) by a licensed and accredited asbestos-abatement contractor in accordance with current applicable State and federal regulations.

2. Underground Storage Tanks: Information obtained during this site assessment indicates that a number of underground storage tanks (USTs) are currently present, or were present at one time, on the assessed properties (refer to Sections 1.2, 1.5, 2.2, 2.3, 2.5.1, 2.5.2, 3.6.1). Known USTs on the assessed property are identified as tank locations 1 through 6 on the map in Appendix B. Evidence of these six USTs was observed during the site visit (refer to Section 3.6.1 and Appendix B). It is believed that two of these USTs were closed in place, and that the four remaining USTs have not been closed. In addition, although evidence of additional tanks was not observed during the site visit, a number of tanks were previously located on the assessed property and it is not known whether these tanks have been removed or closed in place (refer to Sections 1.5, 2.5.1, 2.5.2, and Appendix D). The general locations of previous tanks are identified as locations 7, 8, and 9 on the map in Appendix B. Some of these areas contained more than one tank (i.e., location 7 contained up to six USTs). Also, tank location 9, where two USTs were located, may be the same location where a waste oil aboveground tank is currently located. The AST is situated on a metal plate that possibly covers a below grade area in the floor. Evidence of spillage was observed on and around the AST (refer to Section 3.6.1). Previous subsurface investigations on the assessed property have indicated the presence of groundwater contamination on the northern and southeastern portion of the 200 East Avenue parcel (refer to Section 5.0 and Appendix D).

Recommendations: If the presence of contamination on the assessed property has not already been reported to the NYSDEC, it is recommended that this situation be reported to the NYSDEC for their input/guidance regarding additional investigation and/or remediation required at this site. It is also recommended that additional subsurface investigations be conducted in the current known tank locations and suspected former tank locations to determine whether USTs are currently located on the assessed properties, and to further evaluate the existence of contamination resulting from the current or past presence of USTs. Any USTs found on the property, which are not being used and have not been properly closed, should be permanently closed (i.e., removed) in accordance with applicable State and federal regulations. If additional evidence of



contamination is identified in the soil and/or groundwater during the closure of the tank systems, it must also be reported to the NYSDEC, and remediation of soil and/or groundwater contamination should be performed under NYSDEC guidance. In addition, the area beneath the aboveground storage tank (AST) located in the southeast portion of the service area should be evaluated to determine if USTs are present, and/or if contamination is present.

3. Floor Drains/Sumps: A number of floor drains/sumps were observed in the assessed buildings (refer to Section 3.4.2). In addition, it is suspected that a sump may also be present in the compressor room (refer to Section 3.4.2) in the basement of 200 East Avenue. The discharge location of the floor drains/sumps is unknown. Since this area was used for maintenance of vehicles, leaks or spills of petroleum products, hazardous wastes, or other such materials could have been discharged into the floor drains/sumps. If the floor drains/sumps are not connected to the sanitary sewer system, or if the integrity of these drainage systems is suspect, the potential exists for contamination of the environment.

Recommendations: It is recommended that any sediments and liquids in the floor drains/sumps be removed, characterized (i.e., sampled and analyzed), and disposed of in accordance with applicable regulations. It is also recommended that it be determined if a sump is located in the compressor room, and that the floor drains/sumps be dye-tested to determine their discharge location. Cursory subsurface investigations may be warranted in the area of the floor drains/sumps, and/or at their discharge location(s), in order to determine if the past use and/or discharges have impacted soil and/or groundwater.

4. In-Ground Hydraulic Floor Lifts: Approximately 20 in-ground, hydraulic floor lifts and associated pits were observed in the service area of 200 East Avenue (refer to Section 3.6.7). The pits appeared to be approximately eight feet deep and were constructed with cement block walls. Oily-like liquids were observed in the bottom of some of the pits, but access was not available to probe the pits to determine bottom construction, condition, or the amount of liquid/sediment.

Recommendations: It is recommended that the liquids and sediments in the lift pit be removed, characterized (i.e., sampled and analyzed), and disposed of in accordance with applicable regulations. It is also recommended that a cursory subsurface investigation be conducted in the area of the lift systems (including pits and any hydraulic oil tanks) to determine if contamination has impacted soil and/or groundwater. Also, since the lifts are abandoned, it is recommended that they be closed properly and in accordance with applicable regulations.

5. <u>Compressor Room:</u> The dirt floor, walls, ceiling, and equipment in the compressor room located in the basement of 200 East Avenue were covered with an oily residue. In addition, an abandoned 5-gallon container of an unknown type of liquid was observed in the southwest corner of the compressor room (refer to Section 3.3).

Recommendations: It is recommended that the oily residue be characterized (i.e., sampled and analyzed) and cleaned up in accordance with current regulations. It is also recommended that the extent of soil contamination be determined and that any contaminated soil be disposed of properly. In addition, the contents of the 5-gallon container should be sampled, analyzed, and disposed of in accordance with applicable regulations, and any spillage should be cleaned up properly.



6. <u>Lacquer Spraying/Oil House Area:</u> The 1912, 1931, 1938, 1950, and 1971 Sanborn maps depicted the northeast portion of the service area in the 200 East Avenue facility as having been used for lacquer spraying and/or oil storage in the past (refer to Section 1.5).

Recommendations: It is recommended that a cursory subsurface investigation be conducted in the northeast portion of the service area to determine if past operations in this area have impacted soil and/or groundwater.

7. Spill on Adjoining Property: Spill incident #9105502 has been identified at E.G. Snyder Co. located at 86 Scio Street which adjoins 62-64 Scio Street to the north (refer to Section 2.6). The NYSDEC database identifies this spill as a gasoline release due to a tank failure.

Recommendations: It is recommended that available information on this spill incident be reviewed to determine if this spill incident may have impacted the assessed property. If the extent of contamination on the adjoining property has not been defined, additional investigation may be warranted on the assessed property to determine the impact of this spill incident on the assessed property.

8. <u>Unknown Pipes at 62-64 Scio Street:</u> A pipe was observed on the northern outside wall of the warehouse running vertically between the second story and the basement. A second pipe, approximately two feet long, was observed on the southern outside wall of the warehouse building. This pipe was located approximately 20' to 30' from the southeast corner of the building and appeared to have been damaged/cut. The function/use of these pipes could not be determined (refer to Section 3.6.7).

<u>Recommendation:</u> It is recommended that the function/use of these pipes be confirmed in order to determine if they are associated with a tank system.

No other environmental concerns are identified.

OPERATIONAL CONCERNS AND RECOMMENDATIONS:

Although beyond the scope of the routine environmental site assessment, the operational concerns listed below have been identified. These operational concerns are not considered to be a liability which should impact real estate or mortgage loan transactions. Rather, these concerns are listed for informational purposes, and it is recommended that they be addressed for compliance with existing regulations and/or to minimize the potential for future environmental liabilities. Since identification of operational concerns is incidental to the purpose of this assessment, correction of these items may not necessarily result in full compliance with all applicable environmental regulations.

1. <u>Debris:</u> Auto parts, wood, tires, and boxes were observed in the garage attached to the northwest portion of the former service area at the 200 East Avenue facility (refer to Section 3.2).

<u>Recommendations:</u> It is recommended that this debris be removed and disposed of properly.



2. Abandoned Aboveground Storage Tank (AST) Systems: Two 275-gallon ASTs were observed at 200 East Avenue. One AST was observed in the southeast portion of the service area, and a second AST was observed in the garage attached to the northwestern portion of the service area (refer to Section 3.6.1). In addition, a 55-gallon drum was observed adjacent to the AST located in the southeast portion of the service area (refer to Section 3.6.2). Also, paint and hydraulic oil were observed in the cabinet along the northern wall of the service area (refer to Section 3.6.2).

Recommendations: It is recommended that if the AST systems will no longer be used, that they be removed and disposed of properly. It is also recommended that the contents of the ASTs and the 55-gallon drum be sampled, analyzed, and disposed of in accordance with applicable regulations. Also, if there are no plans to use the hydraulic oil and paint, these materials should be disposed of in accordance with applicable regulations.

TITLE AND HISTORICAL DATA 1.0

1.1 **ABSTRACT OF TITLE:** See Footnote (1.1)

AERIAL PHOTOGRAPHS: Monroe County Environmental Management Council 1.2

Photograph Dates: 1993, 1988, 1975, 1970, 1961, 1951,

and 1930

See Footnote (1.2)

1.3 **TOPOGRAPHIC MAP:** Rochester East Quadrangle (map date 1971, photo revised

1978)

1.4 PLAT BOOK: Book Year: 1910

1.5 SANBORN MAP: Sanborn Mapping and Geographic Information Service Map Dates: 1892, 1912, 1931, 1938, 1950, and 1971

See Footnote (1.5)

DIRECTORIES: 1.6

Rundel Public Library

Directory Dates: 1921-1922, 1927-1928, 1933, 1938, 1942, 1947, 1952, 1957, 1962, 1967, 1972, 1976, 1981-1982, 1988, 1991

See Footnote (1.6)

PERTINENT INFORMATION, REFERENCED TO ITS SOURCE, IS SUMMARIZED BELOW.

An abstract of title was not provided to assist in determining prior property ownership and uses. Investigation of property history, and requests for environmental agency information concerning prior owners, are important elements of a Phase I Environmental Site Assessment. The conclusions in this report are subject to any state of facts which review of an abstract of title might show, directly or indirectly.

Title history records provided by the City of Rochester Office of Maps and Surveys indicated the following corporate/commercial owners for the assessed property.

200 East Avenue:

1928 to 1932 Vantage Point Realty
1932 to 1945 Truebilt Realty Co.
1936 to 1947 The Penn Mutual Life Insurance Co.
1945 to 1947 Daymo Realty Co.
1947 to 1954 Central Chevrolet Co., Inc.
1954 to 1986 Maynard W. Hallman, Inc.
1986 to 1991 Hallman Chevrolet, Ltd.
1991 to Present 200 East Avenue, Inc.

62-64 Scio Street:

1927 to 1931	Lincoln-Alliance Bank and Trust Co.
1944 to 1944	Wilder Realty Co.
1944 to 1958	Duffy Carting Co.
1972 to 1986	Maynard W. Hallman Inc.
1986 to 1991	Hallman Chevrolet, Ltd.
1991 to Present	200 East Avenue, Inc.



1.0 TITLE AND HISTORICAL DATA (Cont.)

- (1.2) In the aerial photos (listed above), 200 East Avenue appeared to be an automobile dealership, and 62-64 Scio Street appeared to be a warehouse. In the 1930 and 1951 aerial photos, the southeast corner of the 200 East Avenue property appeared to be a gas station, and the northern portion of the property appeared to have some dwellings where the north parking lot is now located.
- (1.5) On the 1892 Sanborn map, the southwest portion of 200 East Avenue is labeled "carpenter shop". The remaining portions of the assessed properties were depicted as residential property. The 1912 Sanborn map depicts the southern portion of the 200 East Avenue property as "Mandery Motor Car Co.", and the eastern portion of the service area is labeled "oil house". On the 1931 Sanborn map, the southeast portion of 200 East Avenue is labeled "filling station" and is depicted as having six gas tanks (this area is identified as tank location 7 on the map in Appendix B). The remaining section of the southern portion of 200 East Avenue is labeled as "auto sales and service" and is depicted as having two gas tanks in the southeast portion of the service area (this is identified as tank location 9 on the map in Appendix B). The 1938 Sanborn map depicts the properties as on the 1931 map; however, the eastern portion of the service area is labeled "lacquer spraying" and four gas tanks were depicted at the filling station. The 1950 Sanborn map depicts 200 East Avenue as it was in 1938; however, 62-64 Scio Street is labeled "carting and storage warehouse". On the 1971 Sanborn map the four gas tanks formerly depicted on the southeast portion of 200 East Avenue are no longer identified. However, the two gas tanks located in the southeast portion of the service area were still present.
- (1.6) The 1927-1928 directory lists 200 East Avenue as "Sergeants Auto Sales", and 62 Scio Street as "Firestone Tire and Rubber Co." The 1933 directory lists 200 East Avenue as "Sergeants Auto Sales", 208 East Avenue as "Swan Cleaners", and 216 East Avenue as "Richfield Oil Co. of N.Y. (filling station)". Note, 208 and 216 East Avenue are believed to currently be part of the assessed property. The 1933 directory lists 62 and 64 Scio Street as "vacant".

The 1938 and 1942 directories list 200 East Avenue as "Central Chevrolet" and 216 East Avenue as "East Avenue Service Station" (62-64 Scio Street is not listed in either directory). The 1947, 1952, 1957, 1962, 1967, and 1972 directories list 200 East Avenue as "Hallman Chevrolet" and 62 Scio Street as "Duffy Carting Company". The 1976 and 1981-1982 directories list 62 Scio Street as "vacant" and 200 East Avenue as "Hallman Chevrolet". The 1988 and 1991 directories list 200 East Avenue as "Hallman Chevrolet" and 200 Scio Street as "warehouse".



PUBLIC INFORMATION/AGENCIES 2.0

2.1 **NYSDEC FOIL:**

196, 198, 200, 212, 216 East Avenue and 62-64 Scio Street; 200 East Avenue, Inc.; First Team Management, Inc.; Hallman Chevrolet, Ltd.; Maynard W. Hallman, Inc.; Central Chevrolet, Inc.

Date Of Requests: 4/13/95 and 5/4/95

See Footnote (2.1)

2.2 COUNTY: Monroe County Department of Health

Edward Yurkstas (716) 274-6053

Date Of Contact: 4/11/95

See Footnote (2.2)

2.3 CITY OF ROCHESTER: Assessors Office

Date of Records Review: 4/20/95

Freedom of Information Law Request submitted

4/11/95

Response Received: 4/25/95

See Footnote (2.3)

SOLID AND/OR INACTIVE HAZARDOUS WASTE SITE DATABASES: 2.4

2.4.1 NYSDEC:

Records Date: 4/94

Assessed Property:

Not Listed. None Listed.

1-Mile Radius:

2.4.2 NPL:

Records Date: 3/95

Assessed Property:

1-Mile Radius:

Not Listed.

None Listed.

2.4.3 **CERCLIS**:

Records Date: 3/95

Assessed Property:

0.5-Mile Radius:

Not Listed.

None Listed.

2.4.4 NYS FACILITY

REGISTER:

Records Date: 1/95

Assessed Property:

0.5-Mile Radius:

Not Listed.

Listed. See Footnote (2.4.4)

2.4.5 LOCAL:

Records Date: 4/19/95

Assessed Property:

0.5-Mile Radius:

Not Listed.

None Listed.

TANK REGISTRATION RECORDS: 2.5

2.5.1 NYSDEC PBS:

Records Date: 6/94

Assessed Property:

Adjoining Properties:

Listed. See Footnote (2.5.1) Listed. See Footnote (2.5.1)

2.0 PUBLIC INFORMATION/AGENCIES (Cont.)

2.5.2 LOCAL:

Records Date: 4/25/95

Assessed Property: Adjoining Properties: Listed. See Footnote (2.5.2)

See Footnote (2.5.2)

2.6 **NYSDEC SPILLS/LUST:** Records Date: 4/5/95

Assessed Property: 0.5-Mile Radius:

Listed. See Footnote (2.6) Listed. See Footnote (2.6)

2.7 OTHER GOVERNMENTAL RECORDS:

2.7.1 RCRA TSD FACILITIES:

Records Date: 3/95

Assessed Property:

Not Listed.

1-Mile Radius:

None Listed.

2.7.2 RCRA GENERATORS:

Records Date: 3/95

Assessed Property:

Not Listed.

Adjoining Properties:

Listed. See Footnote (2.7.2)

2.7.3 ERNS LIST:

Records Date: 4/95

Assessed Property:

Not Listed.

PERTINENT INFORMATION, REFERENCED TO ITS SOURCE, IS SUMMARIZED BELOW.

- As of the date of this report, no response to the NYSDEC Freedom of (2.1)Information Law (FOIL) request has been received. If the FOIL response indicates the existence of files concerning the requested properties, client authorization will be requested to review these files at NYSDEC offices. The results of the review would be provided as a supplement to this report.
- Mr. Yurkstas stated that on January 21, 1987, one 2,000-gallon UST failed a pressure test at Hallman Chevrolet. Mr. Yurkstas stated that he has no further (2.2)information on this incident and recommended contacting the NYSDEC for further information regarding this facility.
- A Freedom of Information Law request was submitted to the City of Rochester (2.3)for the assessed properties. The response included the following building and fire permits for 200 East Avenue:

Building Permits:

07/71: Maintain one 1,000-gallon gasoline tank.



2.0 PUBLIC INFORMATION/AGENCIES (Cont.)

- 12/81: Remove and replace motor oil piping from underground tanks to building.
- 06/86: Remove an existing 4,000-gallon tank and install a 4,000-gallon tank with monitoring well.
- 12/86: Install one 2,000-gallon gasoline tank.
- 11/88: Remove gasoline pump and install a re-conditioned gas pump.
- 6/89: Air test two underground waste oil tanks.
- 11/89: Remove one gas pump and fill two 1,000-gallon waste oil tanks.
- 7/90: Replace a gasoline pump.

Fire Department:

- 11/39: Permit for the storage of explosives and combustibles: two 1,000-gallon tanks; permit discontinued in 1940; permit active again in 1944 for one 1,000-gallon tank; one pump removed and tank filled with water in 4/47.
- 6/62: A diagram depicting the location of three 1,000-gallon USTs (included in Appendix C).
- 11/70: A diagram depicting the location of one 2,000-gallon UST (included in Appendix C).
- 6/86: Replace one 1,000-gallon tank.
- 11/86 Test one 2,000-gallon tank; "failed to replace tank".
- 1/87: Remove one 2,000-gallon tank and install one 2,000-gallon tank

 (a diagram showing the location of these tanks is included in Appendix C).
- 7/89: Air test two waste oil tanks (failed).
- 4/90: Filled two 500-gallon tanks with concrete.

A local database is not readily available to check for storage tanks at adjoining properties.

The FOIL response from the City of Rochester did not provide any information regarding 62-64 Scio Street.

(2.4.4) The NYS Facility Register identifies sites such as municipal landfills and transfer stations. Rochester Gas and Electric, located approximately 0.3 miles west of the assessed properties, is identified on this list. This listing does not necessarily indicate that environmental concerns exist at the site. Information was not obtained during this assessment that indicates that this site has had an environmental impact on the assessed property.



2.0 PUBLIC INFORMATION/AGENCIES (Cont.)

- (2.5.1) A review of the NYSDEC Petroleum Bulk Storage (PBS) database identified the following storage tanks at 200 East Avenue:
 - A 4,000-gallon gasoline UST steel construction, installed 6/86, listed as in service;
 - three 1,000-gallon USTs (contents not listed), steel construction, listed as in service:
 - a 2,000-gallon gasoline UST, installed in 1/87, steel construction, listed as in service:
 - a 1,000-gallon AST (contents not listed), steel construction, listed as in service.

The following tank was listed at 84 Scio Street (E.G. Snyder Co.), which adjoins 62-64 Scio Street to the north:

- A 2,000-gallon gasoline UST, steel construction, installed 12/65, that was closed or removed in 8/91.
- (2.5.2) The City of Rochester Fire Department/Building Department FOIL response indicates that a number of USTs are currently located on the assessed property, and that a number of tanks have also been removed or closed in place (refer to Section 2.3).

A local database is not readily available to check for storage tanks at adjoining properties.

(2.6) A review of the NYSDEC spills database identified 14 closed spills within a 0.5-mile radius of the assessed properties. A closed spill is listed at "Hallman Chevrolet" (incident #8605335) and is identified as a gasoline tank test failure. The spill fact sheet for this spill incident indicates that the tank was to be pumped out, removed, and replaced. However, dates are not given for the completion of these actions. A spill listed as closed by the NYSDEC normally indicates that investigations and/or remediation at the spill site have been completed.

Eight active spills were also identified within a 0.5-mile radius of the assessed properties. The distance and location of four of these spills from the assessed properties suggest no environmental impact on the assessed properties. Spill incident #9105502 is identified at E.G. Snyder Co., located at 86 Scio Street, which adjoins 62-64 Scio Street to the north. The NYSDEC spill fact sheet identifies this spill as a gasoline release due to a tank failure. The spill fact sheet also indicates that a soil ventilation system was installed in 1992 to remediate this spill incident. (Note: There are 26 additional pages of information associated with this spill incident on file with NYSDEC).



2.0 PUBLIC INFORMATION/AGENCIES (Cont.)

Spill incident #9412387 is located approximately 0.2 miles east of 200 East Avenue and is identified as soil contamination encountered while excavating a hydraulic lift. The spill fact sheet lists the spill as affecting "land" (i.e., not as affecting groundwater). Spill incident #9113243 and spill incident #9009284 are located approximately 0.2 miles north of the assessed properties and are listed as spilled diesel fuel, and gas fumes in the sewer. A review of groundwater flow maps for this area indicates that groundwater flow is in a northeast direction. The distance and location of these spill incidents from the assessed property suggests no environmental impact on the assessed property.

(2.7.2) E.G. Snyder Co., an adjoining property to the north of 62-64 Scio Street, is identified on the RCRA Generator list (Code #NYD986930428). Information was not obtained during this assessment that indicates that the generation of hazardous waste on the adjoining property has impacted the assessed property; however, this site is identified on the NYSDEC database of spills/leaking USTs (refer to Section 2.6).

- Privileged and Confidential -



3.0 SITE OBSERVATION

Date Of Site Visit:

4/17/95

Assessors:

John G. Brodnick Joseph J. Biondolillo

3.1 FILL: No Observations of Concern.

DEBRIS/DUMPING: 3.2

No Observations of Concern. See Footnote (3.2)

3.3 SPILLAGE/STAINING: Observations of Concern. See Footnote (3.3)

UTILITIES: 3.4

> 3.4.1 TRANSFORMERS:

No Observations of Concern.

3.4.2 FLOOR DRAINS/SUMPS:

Observations of Concern. See Footnote (3.4.2)

3.4.3 SERVICES:

No Observations of Concern. See Footnote (3.4.3)

3.5 **ASBESTOS:** Observations of Concern. See Footnote (3.5)

3.6 **OPERATIONS/EQUIPMENT:**

> 3.6.1 STORAGE TANKS:

Observations of Concern. See Footnote (3.6.1)

3.6.2 **MATERIALS STORAGE:** Observations of Concern. See Footnote (3.6.2)

3.6.3 MATERIALS USE: No Observations of Concern.

3.6.4 SOLID WASTE:

No Observations of Concern. See Footnote (3.6.4)

WASTEWATER: 3.6.5

No Observations of Concern.

3.6.6 AIR EMISSIONS:

No Observations of Concern.

3.6.7 EQUIPMENT:

Observations of Concern. See Footnote (3.6.7)

3.7 **TOPOGRAPHIC CONDITIONS:** No Observations of Concern. See Footnote (3.7)

ADJOINING PROPERTIES: 3.8

200 East Avenue

North: East:

Alley and then warehouse.

Winthorp Street and then commercial office space,

body shop, vacant lot and parking lot.

South: West:

East Avenue and then WHEC television station. Mathews Street, and then Speedy's Dry Cleaners,

warehouse, parking lot, and assessed property.

ADJOINING PROPERTIES:

62-64 Scio Street

North:

E. G. Snyder Co.

East:

Mathews Street and then parking lot (assessed

property).

South:

Speedy's Dry Cleaners.

West:

Scio Street and then parking ramp.



3.0 SITE INSPECTION (Cont.)

PERTINENT INFORMATION, REFERENCED TO ITS SOURCE, IS SUMMARIZED BELOW.

- (3.2) Debris, including auto parts, wood, tires, and boxes was observed in the garage attached to the northwest portion of the service area in the 200 East Avenue facility.
- (3.3) Minor staining was observed throughout the entire service area on the concrete floor around each hydraulic lift, and under and around the AST located in the southeast portion of the service area. Spillage/staining was also observed in the compressor room located in the basement of the 200 East Avenue facility. The dirt floor, walls, ceiling, and equipment in the compressor room were covered with an oily residue. In addition, a 5-gallon container of an unknown liquid was observed in the southwest corner of the compressor room; however, due to the age and poor condition of the container, the container was not moved to look for possible leakage.
- (3.4.2) Several hundred feet of below grade trench drains were observed in the service area in the 200 East Avenue facility. The trench drains were constructed with concrete sides, had a solid bottom, and contained an oily sediment. The discharge point of the trench drains could not be determined. A below grade sump was also observed adjacent to the trench drain system in the southeastern portion of the service area. The sump had concrete sides and contained approximately 6" to 12" of sludge with a strong petroleum/solvent odor.

In addition to the trench drain system, several floor drains were observed in the service area. These drains had concrete sides and contained sediment. The discharge point of the drains could not be determined. A floor drain was also observed in the basement area of 200 East Avenue, and it appeared that this drain was almost entirely covered with cement.

In a number of locations throughout the service area, cylindrical metal caps were observed in the cement floor. These caps ranged in size from 0.5" to 6" in diameter. The purpose of these caps could not be determined.

A floor drain was observed in the central portion of the first floor of the warehouse building located at 62-64 Scio Street. The floor drain contained sediment and the discharge point of the drain could not be determined.

A sump was observed in the southeast portion of the basement of 200 East Avenue. The sump contained approximately 12" of clear liquid. In addition, a second sump may be present under a series of boards in the compressor room located in the basement of 200 East Avenue.

(3.4.3) The assessed properties are serviced by public water and public sewer. The assessed buildings are heated with furnace systems which are fueled with natural gas.



3.0 SITE INSPECTION (Cont.)

- (3.5) Suspect asbestos containing materials (SACM) that were observed to be in damaged and/or friable condition are summarized below:
 - In excess of 700 linear feet of thermal system pipe insulation (air cell) and associated mudpack joints were observed in the basement of 200 East Avenue. Approximately 5% to 25% of this material was observed to be in damaged/friable condition.
 - Approximately 3,000 to 5,000 square feet of vinyl floor tile was observed in the former parts store located in the southeastern portion of 200 East Avenue. Approximately 5% to 10% of the tiles were observed to be in damaged condition.
 - Approximately 3,000 square feet of acoustical ceiling tile was observed in the second floor office area of 200 East Avenue. Approximately 15% to 25% of this material was observed to be in damaged/friable condition.
 - Approximately 500 square feet of acoustical ceiling tile was observed in the second floor of the cashiers office in the service area. It appeared that removal of a portion of the ceiling tile had been attempted in the tower; however, residual material on the ceiling is in damaged/friable condition.
 - In excess of 500 linear feet of thermal system pipe insulation (air cell) was observed in the warehouse building at 62-64 Scio Street. Approximately 5% to 15% of this material was observed to be in damaged/friable condition.

SACM observed to be in good condition included:

 Approximately 200 square feet of acoustical ceiling tile located in the offices between the showroom and the parts store.

Note, a coal-fired furnace was observed in the crawl space under the warehouse. Poor lighting prohibited a complete observation of the furnace; however, the furnace may contain asbestos in the brick or other materials used to construct the furnace.

(3.6.1) The following tanks and/or evidence of tanks were observed during the site visit:

200 East Avenue:

- A fillport and monitoring well were observed in the southeastern parking lot located next to the former parts store (see tank location 1 on the map in Appendix B). In addition, a vent pipe was observed on the exterior of the service area approximately 20' north of the fillport.
- Three fillports and two monitoring wells were observed in the central portion of the parking lot located north of the service area (see tank locations 3, 4, and 5 on the map in Appendix B). The fillports were located approximately 10' to 15' north of the service entrance.



3.0 SITE INSPECTION (Cont.)

- A concrete patch was observed to the southeast of the cashiers cage located inside the service area (see tank location 2 on the map in Appendix B). This concrete patch may indicate the location of an UST that was filled with concrete in the past (refer to Section 4.1).
- A metal plate was observed in the southeast portion of the service area. A one-inch diameter hole was observed in this area of the floor, and it appeared that there was a below grade area beneath the concrete floor (see suspect tank location 9 on the map in Appendix B). This area is also identified on Sanborn maps as having had tanks in the past (refer to Section 1.5).
- One 275-gallon AST was observed through a window in the garage on the northern portion of the service area. Since access was not gained to this garage, an inspection of the tank and ground surface under the tank was not possible.
- One 275-gallon AST was observed in the southeast portion of the service area. This AST appeared to be currently in use for the storage of waste oil. This AST was located on top of a square metal plate in the concrete floor which may indicate the location of an additional tank (see above). Evidence of minor spillage was observed under and around the tank.

62-64 Scio Street:

- What appeared to be a fillport and a vent pipe were observed on the east side of the warehouse building (see tank location 6 on the map in Appendix B).
- (3.6.2) Paint and hydraulic oil were observed in a cabinet located along the northern wall of the service area. Spillage and/or leakage was not observed in or around the cabinet. One 55-gallon drum was observed adjacent to the AST located in the southeast portion of the service area. The contents of this drum could not be verified. Evidence of minor spillage was observed around the drum and AST. In addition, a pile of salt was observed in the northeast corner of the service area.
- (3.6.4) Mr. Fornataro stated that solid waste is not currently generated on the assessed properties (refer to Section 4.1).
- (3.6.7) Approximately 20 in-ground hydraulic lifts and associated pits were observed in the service area. The pits were approximately eight feet deep, had concrete block sides, and each lift appeared to have a self-contained hydraulic reservoir. Oily-liquid was observed in the bottom of a number of the pits examined, but access was not available to probe the pits to determine bottom construction, condition, or the amount of liquid/sediment.

A pipe was observed on the northern outside wall of the warehouse running vertically between the second story and the basement. A second pipe, approximately two feet long, was observed on the southern outside wall of the warehouse building. This pipe was located approximately 20' to 30' from the southeast corner of the building and appeared to have been damaged/cut. The function/use of these pipes could not be determined (refer to Section 3.6.7).

(3.7) Both portions of the assessed property were relatively flat and contained no water bodies.

- Privileged and Confidential -



4.0 INTERVIEWS

4.1 Charles Fornataro
First Team Management
Date of Interview: 4/17/95

Concern Identified. See Footnote (4.1)

PERTINENT INFORMATION, REFERENCED TO ITS SOURCE, IS SUMMARIZED BELOW.

(4.1) Mr. Fornataro indicated that he has no knowledge of current or past environmental liens against the assessed property.

Mr. Fornataro indicated that he is an employee of First Team Management, which has owned the assessed property since 1986 (Note, the title history records indicate that the assessed property is owned by 200 East Avenue, Inc., and that First Team Management is a General Partner in Hallman Chevrolet, Inc., a former owner of the property; refer to Section 1.1). Mr. Fornataro stated that the assessed property has been vacant since approximately 1990.

Mr. Fornataro stated that, to the best of his knowledge, the tank located to the southeast of the cashiers cage, and the tank located beneath the 62-64 Scio Street warehouse building, were filled with cement in the past. Mr. Fornataro also stated that, to the best of his knowledge, the tanks associated with the former gas station once located on the southeast portion of the 200 East Avenue property were removed in the 1940s or 1950s.

Mr. Fornataro indicated that solid waste is not currently generated on the assessed properties.

Mr. Fornataro stated that some asbestos was removed from the service area in the late 1980s.

- Privileged and Confidential -



5.0 REVIEW OF PRELIMINARY SITE ASSESSMENT

5.1 Rizzo Associates, Inc.
"Investigation of Former Hallman
Chevrolet Properties"
Report Dated: May 21, 1993

Concern Identified. See Footnote (5.1)

PERTINENT INFORMATION, REFERENCE TO ITS SOURCE, IS SUMMARIZED BELOW.

(5.1) Information obtained from the Rizzo Associates report indicates that at least six USTs are present on the assessed properties. In addition, a subsurface study conducted by Rizzo Associates indicates the presence of groundwater contamination on the northern and southeast portion of the 200 East Avenue property (refer to Appendix D).



SIGNATURES

Day Environmental, Inc. John G. Brodnick, EAA Certified Environmental Inspector

G Brodwell

Day Environmental, Inc. David D. Day, P.E.

REPORT EXPLANATION

PURPOSE OF AN ENVIRONMENTAL SITE ASSESSMENT:

The purpose of an environmental site assessment is to perform the appropriate inquiry into the environmental condition of a property to identify the potential CERCLA/SARA liability for the cleanup of hazardous substances, and to establish the defense for such liability.

SCOPE OF A PHASE I ENVIRONMENTAL SITE ASSESSMENT:

This Phase I Environmental Site Assessment has been performed in general conformance with the scope and limitations of ASTM Practice E 1527. Exceptions to, and/or deletions from, this practice are described in the summary of this report.

A Phase I Environmental Site Assessment is the initial level of inquiry into the history, use and condition of a property and area, which establishes the reasonable presumption that environmental concerns do or do not exist. The Phase I Environmental Site Assessment consists of four (4) basic inquiry components:

- Review of the title to the property and historical data to identify prior ownership and uses which represent a potential risk for contamination of the property.
- 2. Review of available public information and environmental records to identify site and area facilities, conditions, activities and substances of use of environmental concern that have been recorded by federal, State and local agencies.
- Site reconnaissance of the property to identify conditions which indicate the presence or potential presence of hazardous substances and contamination.
- 4. Interviews with owners, operators and persons familiar with the site and area to identify conditions and operations of environmental

The Phase I Environmental Site Assessment will conclude that either (a) further inquiry into the environmental status of a property is not needed and appropriate inquiry has been performed or (b) further inquiry is needed to appropriately assess the environmental status of the property.

NON-CERCLA/SARA LIABILITIES:

There are risks associated with the environmental condition of a property which are not a potential CERCLA/SARA liability and are not subject to incurrence of response costs under CERCLA. Due to the frequency of occurrence, the scope of the Phase I Environmental Site Assessment has been expanded to include the identification of petroleum liabilities and friable asbestos. No other assessment of non-CERCLA/SARA liabilities has been performed unless specifically identified in the report narrative.

ASBESTOS:

Where apparent, damaged and/or friable SACM has been identified; however, a complete visual inspection and records review for SACM was not performed as a part of this assessment. As a result, this facility may contain other SACM which is not identified in this report.

SACM is identified as a potential environmental concern when the observable condition (i.e., exposed, damaged and/or friable) suggests the release of debris and/or fibers under normal facility operations. If the SACM actually contains asbestos, the release of debris and/or fibers could pose an asbestos-exposure hazard. In order to determine if the SACM contains asbestos, the SACM must be sampled and analyzed.

Should any asbestos-containing material (ACM) at this facility be disturbed through abatement, removal, maintenance, renovation, demolition, etc., the handling and disposal of the ACM is subject to applicable state and federal regulations. Also, no representations are made regarding previous disturbance and/or removal of ACM at this facility.

OPERATIONAL CONCERNS:

Although beyond the scope of the routine environmental site assessment, operational concerns may be identified. Operational concerns are not considered to be liabilities which should impact real estate or mortgage loan transactions. Rather, operational concerns are listed for informational purposes, and it is recommended that they be addressed for compliance with existing regulations and/or to minimize the potential for future environmental liabilities. Since identification of operational concerns is incidental to the purpose of this assessment, correction of these items may not necessarily result in full compliance with all applicable environmental regulations.

NOTES are used in the Assessment Summary either to identify special property conditions, or to identify and explain conditions which might characteristically be a potential environment characteristically be appeared and environmental matter the assessment inquiry has not established the reasonable presumption that an environmental liability does exist.

DATA QUALIFICATION:

Environmental site assessment conclusions are made based on the data available for the dates identified. The conclusions are subject to any state of facts which would be identified by up-dated data. No assurances are made as to the accuracy or completeness of data obtained from outside information sources. Also, it is possible that not all existing sites within the search radii specified in Section 2 of this report have been identified, due to factors such as urban density and potential insufficiencies in the databases.

SITE VISIT QUALIFICATION:

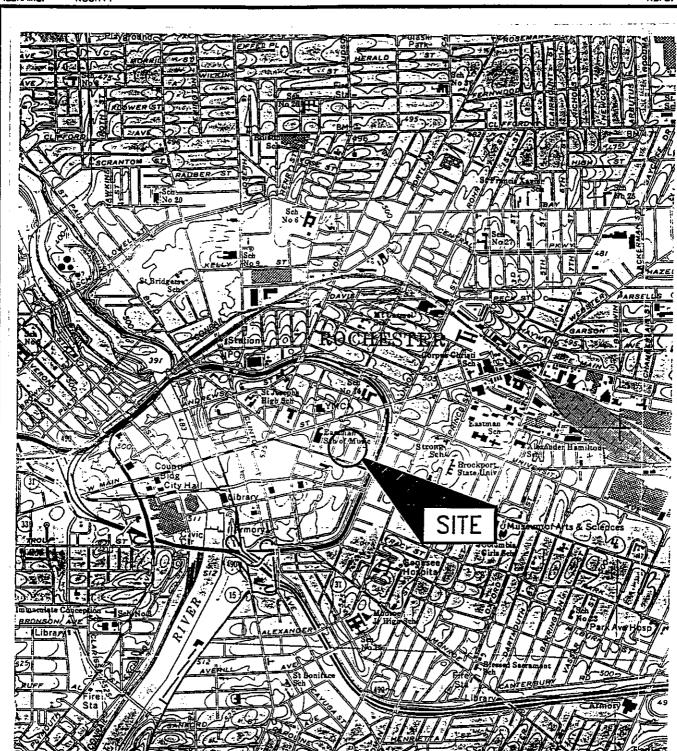
Where the site observations are limited to representative areas, or where facilities are inaccessible for observation, the environmental site assessment conclusions are subject to any statement of facts which access to those areas would reveal.

ABBREVIATIONS/ACRONYMS:

ASTM - American Society for Testing and Materials CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System EPA - (United States) Environmental Protection Agency ERNS - Emergency Response Notification System FOIL - Freedom Of Information Law LUST - Leaking Underground Storage Tank N/A - Not Applicable; Not Available NPL - National Priority List NYS - New York State NYSDEC - New York State Department of Environmental Conservation Bulk Storage

PBS - Petroleum Bulk Storage
RCRA - Resource Conservation and Recovery Act
SACM - Suspect Asbestos-Containing Material
SARA - Superfund Amendments and Reauthorization Act of 1986
TSD - Treatment, Storage and Disposal
UST - Underground Storage Tank

REF1: BORDER13 REF2: REF2 REF3: REF3



DRAWING PRODUCED FROM: ROCHESTER EAST, N.Y.

N4307.5-W7730/7.5 1971 PHOTOREVISED 1978

PROJECT NO.

0525E-95

FIGURE 1

SHEET 1 OF 1

PROJECT TITLE
200 EAST AVENUE
62-64 SCIO STREET
ROCHESTER, NEW YORK

PHASE I ASSESSMENT

DRAWING TITLE PROJECT LOCUS MAP

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS ROCHESTER, NEW YORK DATE
4/13/95
DRAWN BY

SCALE

1" = 2000'

APPENDIX A

APPENDIX B

APPENDIX C

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APPROVED:

Superintendent of Buildings

the provisions of the Rochester and Code, whether stal-This APPROVAL does not relieve the agent, applicant, archifect, builder, engineer, or owner hom complying with any of ed, implied, or omitted in these plans and specifications. John F. Bauerschmidt 120 Woodbing Ave.

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APPENDIX D

ENGINEERS ENVIRONMEN

235 West Central Street, Natick, MA 01760

May 21, 1993

CONFIDENTIAL

Ms. Debra Thorndike Fleet Management & Recovery 245 Summer Street Boston, MA 02209

Investigation of Former Hallman Chevrolet Properties Re:

Rochester, New York

Dear Ms. Thorndike:

Rizzo Associates, Inc. is pleased to submit this Preliminary Site Assessment Update/ Limited Subsurface Investigation report for the four properties formerly operated by Hallman Chevrolet in the area of 200 East Avenue in Rochester, New York (the Site). This investigation was conducted to evaluate the Site for evidence of releases of oil or hazardous materials. The update investigation included a review of the Site history, a Site visit, and a review of local and regulatory agency files. However, this investigation was conducted in 11 days to meet the necessary deadline, and some information sources were unable to respond to our requests for information. The subsurface investigation consisted of advancing soil borings, installing monitoring wells, collecting soil and groundwater samples, and surveying water table elevations. This work updates and supplements findings presented in Phase I Environmental Liability Assessment Hallman Chevrolet Ltd. Property report prepared by Fred C. Hart Associates dated June 12, 1989. The findings of our investigation are summarized in the attached report.

We appreciate the opportunity to provide these services to you. Please contact us if you have any questions concerning this report.

Very truly yours,

Kenneth B. Jacoes

Project Geologist

Richard J. Hughto, Ph.D., P.E.

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RIZZO A SSOCIATES, INC.

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EXECUTIVE SUMMARY

This report presents the results of Rizzo Associates investigation of the former Hallman Chevrolet properties located in the area of 200 East Avenue in Rochester, New York (the Site). The investigation was conducted to look for evidence of releases of oil or hazardous material into the soil or groundwater at the Site. The street addresses and Hallman Chevrolet's former uses for the four properties considered in this investigation are as follows:

- 200 East Avenue Main showroom and auto servicing garage
- 24 Winthrop Street Vehicle finishing building
- 15-17 Pitkin Street Truck service and body shop
- 62-64 Scio Street Parts warehouse

The Site consists of 4 noncontiguous lots with a combined area of 3.9 acres. Each of the lots is occupied by a building as indicated above. All of the parcels except for the parts warehouse at 62-64 Scio Street contain parking areas. The buildings were constructed between 1910 and 1935. The 200 East Avenue parcel has been occupied by automobile dealerships since 1912 (by Hallman Chevrolet since the 1930s), and the other parcels were acquired by Hallman and occupied from the 1930s to 1990 when the Site was vacated. Other commercial ventures have since rented space in portions of the Site.

Two issues of environmental concern were identified in a preliminary environmental assessment of the Site conducted by Fred C.Hart Associates, Inc. in 1989. First, the report identified nine underground storage tanks (USTs) at the Site. The former contents of the tanks include gasoline, heating oil, motor oil, and waste oil. Three of the tanks were located beneath buildings and had been abandoned by filling with concrete. The rest were reportedly out of service. Rizzo Associates identified a tenth UST, a heating oil tank beneath the west end of the 24 Winthrop Street building, during our inspection of the Site. The second identified environmental issue was that waste petroleum naphtha has been generated at the body shop building and was reportedly collected in drums in a metal shed built on a concrete slab north of the body shop building.

A subsurface investigation was conducted to test the soil and groundwater on the Site near the identified potential sources. The investigation consisted of advancing seven soil borings, installing six monitoring wells, collecting soil and groundwater samples for laboratory analysis, and surveying water table elevations in the monitoring wells.

The results of this investigation indicate that there have been significant releases from USTs at two locations on the Site; the southeast corner of the 200 East Avenue parcel and the west side of the 24 Winthrop Street parcel. The release on the 200 East Avenue parcel appears to be a gasoline release from either the existing UST at that location or an older, previously removed UST. The release at 24 Winthrop Street appears to

RIZZO A SSOCIATES, INC.

contain dissolved gasoline constituents from the gasoline UST at that location, and also includes heating oil, presumably from the heating oil UST located beneath the west Site of the 24 Winthrop Street building.

Two of the USTs on the Site were located beneath buildings and one was located beneath a lot covered with junk cars; therefore, the borings and monitoring wells intended to investigate the soil and groundwater near these USTs were installed downgradient from the USTs as near as was feasible. These borings and monitoring wells would presumably have detected large scale releases from the USTs. While no such large scale contamination was detected, smaller scale contamination could exist nearer the tanks and would not have been detected.

No soil or groundwater assessment was possible near the UST located beneath the parts warehouse at 62-64 Scio Street. The warehouse building completely fills the land surface of the lot leaving no access for a drill rig. While it is possible that soil or groundwater contamination is located beneath the parts warehouse building, it is considered unlikely that any action will be required to investigate the location because it is inaccessible and because the UST has been filled with concrete.

No waste petroleum naphtha was detected in soil samples collected from beneath the drum storage shed beside the body shop building; however, soil or groundwater contamination may exist beneath the garage portions of the Site buildings or in the vicinity of the USTs or hydraulic lifts located beneath the buildings. Unknown hydrocarbon was detected in a monitoring well installed adjacent to the garage portion of the main building and may be an indication of such contamination. The absence of significant contamination in wells further downgradient from the garage buildings may indicate that if such contamination exists it is not heavily impacting the groundwater downgradient from the two largest buildings. However, if in the future the existing buildings are torn down, expenses may be incurred dealing with some amount of contaminated soil beneath the buildings.

1.0 INTRODUCTION

This report presents the results of Rizzo Associates investigation of the former Hallman Chevrolet properties located in the area of 200 East Avenue in Rochester, New York (the Site). The investigation was conducted to look for evidence of releases of oil or hazardous materials into the soil or groundwater at the Site. The street addresses and Hallman Chevrolet's former uses for the four properties considered in this investigation are as follows:

- 200 East Avenue Main showroom and auto servicing garage
- 24 Winthrop Street Vehicle finishing building
- 15-17 Pitkin Street Truck service and body shop
- 62-64 Scio Street Parts warehouse

The Site location is shown in Figure 1, and a Site Plan is shown in Figure 2.

The Site consists of 4 noncontiguous lots with a combined area of 3.9 acres. Each of the lots is occupied by a building as indicated above. The buildings were constructed between 1910 and 1935. The 200 East Avenue parcel has been occupied by automobile dealerships since 1912 (by Hallman Chevrolet since the 1930s), and the other parcels were acquired by Hallman and occupied from the 1930s to 1990 when the Site was vacated. Other commercial ventures have since rented space in portions of the Site.

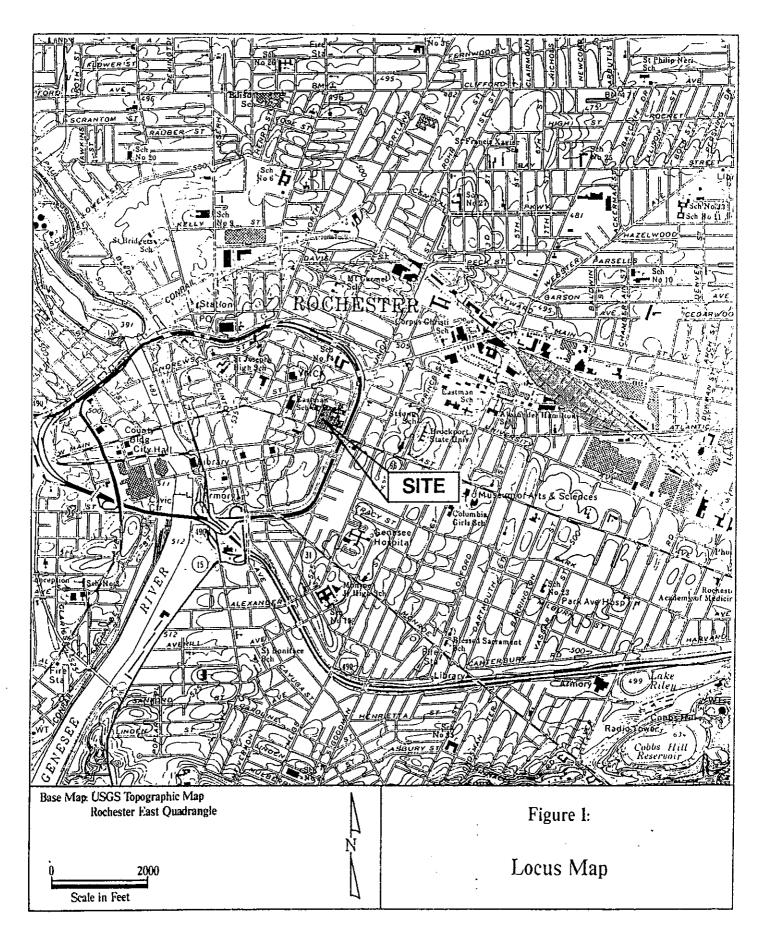
1.1 PREVIOUS INVESTIGATIONS

The Site was the subject of an environmental investigation in 1989 conducted by Fred C. Hart Associates, Inc. (Hart) of Albany, New York. Hart conducted a Phase I investigation, which consisted of historical research and Site reconnaissance. The subsurface investigation portion of Rizzo Associates investigation was planned based on the potential contamination areas identified in the Hart report.

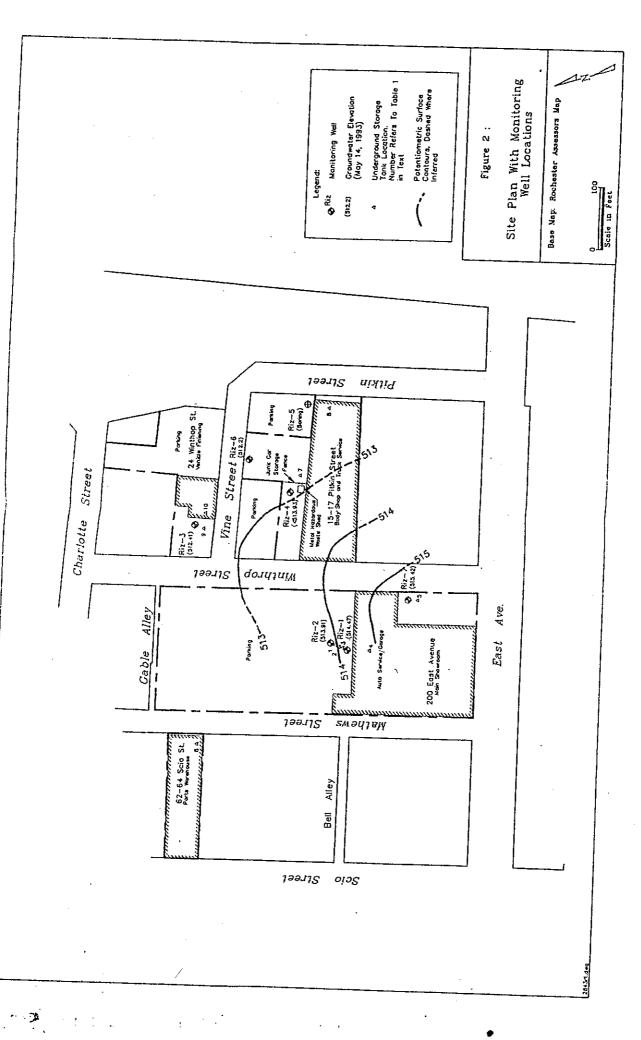
1.2 SIGNIFICANT FINDINGS OF PREVIOUS INVESTIGATIONS

The following issues of environmental concern were identified in the above-referenced Hart report:

- Nine underground storage tanks (USTs) are located at the Site. Three of the tanks are located beneath buildings and have been abandoned by filling with concrete. The rest of the USTs are out of service. The former contents of the tanks include gasoline, heating oil, motor oil, and waste oil.
- Waste petroleum naphtha has been generated at the body shop building and was reportedly collected in drums in a metal shed built on a concrete slab north of the body shop building.



010		1	*9	Vehicle Preparation	**	*7	Truck Service and Body Shop	***	Parts Warehouse		**	**4	#3	#2	*1	Main Building	Tank Designation		
Heating oil	Gasoline		Gasoline		(Waste oil)	Waste oil		(Heating oil)		(Gasoline/waste oil)	(Gasolinc)	(Waste oil)	Motor oil	Motor oil	Motor oil		Contents () Indicates Former Contents		
Unknown	4,000				1,000	1,000		1,000		2,000	2,000	1,000	1,000	1,000	1,000		Size (gallons)		
Abandoned	Abandoned, empty		Removed 1986		Concrete filled	Abandoned		Concrete filled		Recently converted to waste oil storage	Removed 1987	Concrete filled	Abandoned	Abandoned	Abandoned		Current Status	UNDERGROUNI	
Probably installed 1920 when building was constructed	Installed 1986		Unknown		Probably installed 1935 during construction of building	Installed 1987		Probably installed 1910 during construction of building		Installed 1987	Unknown		Unknown	Unknown	Unknown		Age	UNDERGROUND STORAGE TANK INFORMATION	TABLE 1
Steel?	Unknown		Steel?		Steel?	Unknown		Steel?		Fiberglass	Steel		Steel?	Steel?	Steel?		Construction	ON	
No testing available	No testing available	contamination observed when tank was removed	Fire marshal reported no	The state of the s	Failed Tank Test 1987	No testing available		No testing available		No testing available	Fire marshal reported no contamination observed when tank was removed	Tight 1987, test documents unavailable	Tight 1987	Tight 1987	Tight 1987		Tightness Testing Data		
Under building	Under parking lot		1		Under building	Under lot covered with junked cars		Under building		Under parking lot		Under floor of cashier's booth in building	Under parking lot	Under parking lot	Under parking lot		Tank Accessibility		



2.0 SITE RECONNAISSANCE

A Site reconnaissance was conducted on May 12, 1993 by Rizzo Associates personnel. Charlie Fornataro, former manager of maintenance for Hallman Chevrolet, accompanied us on the walkover and provided building access to the main showroom building. The body shop building is open to the public as a parking garage and was accessed; however, the vehicle preparation building and the warehouse building could not be accessed for interior inspection and were only viewed from the outside. The purpose of the visit was to look for surficial evidence of releases of oil or hazardous materials.

Conditions found at the Site generally matched the description of the Site in the Hart report and will not be described again in this report. Hallman Chevrolet no longer occupies the Site and other concerns are operating in parts of the Site. Most of the showroom building is vacant; however, a few individuals are using space in the garage building to do automotive repairs. The bottom floor of 15-17 Pitkin Street is used as a parking garage, and the upper floor is occupied by Brewster Auto and Marine for auto body repair and servicing. The 24 Winthrop Street parcel is apparently used by Genesee Hospital for storage and maintenance of their fleet of vehicles. The use of the parts warehouse at 60-62 Scio Street since the departure of Hallman Chevrolet is not known; however, the Hallman signs on the building have not been replaced.

A summary of the available UST information is presented in Table 1. Three issues were noted during Rizzo Associates inspection, which were not discussed in the Hart report. First, a fill pipe labeled "oil" and a vent pipe were noted protruding from the west wall of the vehicle preparation building at 24 Winthrop Street. The fill pipe was opened and had a strong oil odor. The fill pipe showed no indication of being concrete filled as has been the case with the other heating oil tanks on the Site when the heating system they supplied was converted to natural gas. The orientation of the pipes indicate that the tank is beneath the building. The building does not have a basement and, therefore, the tank can be assumed to be underground beneath the building.

The second environmental issue is an aboveground storage tank, approximately 275 gallons in size, in the small garage extension at the northwest corner of the showroom building. The tank was observed through the window of a locked door and could not be inspected closely; however, there was no evidence of spills around the tank. The contents of the tank are unknown. Third, in-ground hydraulic lifts were observed in the garage portion of the showroom building and in the body shop building.

The file of UST and hazardous waste records formerly maintained by Hallman Chevrolet was obtained by Rizzo Associates from Charles Fornataro. The file was reviewed; however, little useful information was obtained from the file. Manifests in the file confirmed that waste petroleum distillates and waste motor oil had been hauled off of the Site. Invoices in the file confirmed that tightness tests had been performed and that USTs were filled with concrete, as indicated in Table 1; however, many of the references to tanks in the documents did not specify the address or location of the tank at issue.

3.0 LOCAL RESEARCH

Interviews with local officials and reviews of local records were conducted to update similar research conducted by Hart for their 1989 report on the Site. Unfortunately, the process for obtaining public information from government offices in New York generally involves filing a Freedom of Information Act request to the office and processing these requests takes a minimum of one week. Therefore, most of the offices contacted have not been able to respond with records within the 11 day time frame of this project. The local sources of information included the Monroe County Health Department Division of Public Water Supply and Division of Toxic Controls and Spills, Monroe County Engineering Department, Monroe County Historian, City of Rochester Environmental Services, Tax Assessor, and fire department. Property dimension information was obtained from the Tax Assessor's Office and several local groundwater geology reports for the Rochester area were obtained at the Rochester Public Library.

3.1 HISTORICAL MAP RESEARCH

Sanborn Fire Insurance maps of the Site were obtained through Environmental Risk Information and Imaging Services of Alexandria Virginia. Sanborn maps are detailed, large scale maps produced for fire insurance purposes from the late 1800s until the 1970s showing buildings, storage tanks, and land uses. The maps obtained for the Site were dated 1892, 1912, 1938, 1950, and 1971.

The 1892 map shows all four parts of the Site occupied by residences except for the west side of the 200 East Avenue parcel, which is occupied by a carpenters shop. In 1912 the 200 East Avenue parcel had been redeveloped as the Mandery Motor Car Company showroom and garage, while the other three parts of the Site remained residential.

On the 1938 map, the Site was shown in the same general configuration as it is currently. 200 East Avenue was in its current configuration except that the parking area north of the building was still occupied by residences and a filling station was shown in the southeast corner of the 200 East Avenue property. Two gas tanks were shown in the garage portion of the showroom building, near Winthrop Street. The warehouse at 60-62 Scio Street had been constructed and was being used as an auto parts warehouse. The building at 24 Winthrop Street was constructed but was listed as vacant, and the building at 15 Pitkin Street had been constructed and was labeled auto sales and service.

The 1950 map shows the Site generally unchanged from 1938 with the exception of the addition of four gasoline tanks in the parking area on the southeast corner of the 200 East Avenue parcel. The 1971 map shows the Site and surroundings in their present configuration. The gasoline tanks in the southeast corner of the 200 East Avenue parcel are not shown, and the residences on the north part of 200 East Avenue and adjacent to 24 Winthrop and 15-17 Pitkin were replaced by parking. In addition, the residential areas to the east of Pitkin Street have been replaced by the "Inner Loop" highway.

4.0 STATE AND FEDERAL FILE REVIEW

State and federal records of reported use, storage, or releases of oil or hazardous material in the vicinity of the Site were searched and compiled by Environmental Risk Information and Imaging Services of Alexandria, Virginia. The search was conducted to a 1 mile radius and included the *National Priorities List*, CERCLIS List, RCRIS large and small quantity hazardous waste generators list, Emergency Response Notification System, U.S. EPA Civil Enforcement Docket, and the following New York State documents: Inactive Hazardous Waste Disposal Sites List, Leaking Storage Tank Report, Chemical Bulk Storage Report, Hazardous Waste Manifest Report, Petroleum Bulk Storage Report, and Spills List Report.

The Site and surrounding properties were not listed on the New York State Hazardous Waste Disposal Sites List. The New York State Leaking Storage Tank report records a leaking tank incident at 200 East Avenue, Hallman Chevrolet, in November 1986. The report states that a tank tightness test in November 1986 detected a leak in a gasoline tank. The cleanup date of the incident is listed as January 30, 1987. The Leaking Storage Tank report also lists discovery of a leaking gasoline tank at E. G. Snyder, 86 Scio Street on August 20, 1991. No cleanup completion is listed; however, 86 Scio Street is hydrologically downgradient from the Site and is not likely to impact the Site.

Small quantity hazardous waste generators in the vicinity of the Site are listed as Woltings Collision Service, 7 Pitkin Street and the Hallman Chevrolet Body Shop, 12 Winthrop Street (the address of the back of 15-17 Pitkin Street). In addition, the New York Hazardous Waste Manifest Report lists Hallman Chevrolet; however, this list does not provide any details of what wastes were manifested or when.

5.0 SUBSURFACE INVESTIGATION

Based on the number and age of the USTs on the Site and the generation of paint wastes in the body shop building a subsurface investigation of the Site was undertaken. The purpose for the subsurface investigation was to look for potential contamination in the areas of concern identified during the historical review of the Site. The subsurface investigation consisted of advancing seven soil borings on the Site and completing six of them as groundwater monitoring wells. Groundwater from the monitoring wells and soil from the borings were sampled for laboratory analysis. Surface soil samples were also collected. The elevations of groundwater in the monitoring wells were measured to evaluate the groundwater flow direction on the Site.

5.1 SOIL BORING AND MONITORING WELL INSTALLATION

Seven soil borings were advanced on the Site for monitoring well installation on May 13 and 14, 1993 by Pennsylvania Drilling, Inc. of Rochester, New York. Soil boring and monitoring well construction were conducted under the direction of Rizzo Associates personnel following the standard protocols outlined in Appendix B. The borings were advanced using an Acker AD-2 truck-mounted drill rig with 4.25-inch-inside-diameter hollow-stem augers. Boring logs and monitoring well construction diagrams for the wells are included in Appendix C. The locations of the monitoring wells are shown on Figure 2.

Monitoring well locations were selected to address specific areas of potential contamination on the Site. Well locations were selected based on the assumption that groundwater flow generally mimics the slope of surface topography on the Site and would flow to the north or northeast. RIZ-1 was installed beside the north wall of the automobile maintenance portion of the main showroom building to evaluate the groundwater downgradient from tank No. 4 and from the garage work area. RIZ-2 was installed north of the three motor oil USTs (No. 1, No. 2, and No. 3 on Figure 2). RIZ-3 was installed north of tanks No. 9 and No. 10 near the vehicle finishing building (24 Winthrop Street). RIZ-4 was installed north of the metal shed beside the body shop building where waste petroleum naphtha was accumulated for disposal. RIZ-5 was a soil boring not completed as a monitoring well because of bedrock refusal above the water table. RIZ-5 was advanced at the northeast corner of the body shop building, as near to tank No. 8 as was feasible. RIZ-6 was advanced north of the waste oil tank along the north side of the body shop building; however, because of the junk cars in the lot, the boring was 85 feet from the tank. RIZ-7 was installed 12 feet north of tank No. 5 located southeast of the showroom building.

Soil samples were collected from the auger flights from 0 to 2 feet below grade, and then continuously with a splitspoon from five feet below grade to the bottom of each boring. The soil samples were field screened for VOCs using a photoionization detector (PID). The samples were placed in jars and the headspace over each sample was screened using an HNu Model PI-101 PID using the standard procedure described in Appendix B. The HNu was equipped with a 10.2 eV lamp and was calibrated to an isobutylene standard at Rizzo Associates office. The HNu responds to the presence of VOCs with ionization potentials less than 10.2 eV. Concentrations are displayed in analog form in parts per million (ppm). Most priority pollutant VOCs are ionized at this potential and will generate a response on the HNu; however, the sensitivity of the instrument to VOCs other than the calibration gas varies. Positive HNu screening responses indicate that VOCs are likely to be present in the sample.

Positive PID responses are shown in Table 2. No significant positive responses (greater than 2 ppm) were detected in soil samples collected from above the water table;

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however, significant responses were obtained from samples collected at and below the water table in borings RIZ-3 and RIZ-7.

TABLE 2 PID RESPONSES FROM SOIL SAMPLES (ppm)											
Sample Depth	RIZ-1	RIZ-2	RIZ-3	RIZ-4	RIZ-5	RIZ-6	RIZ-7				
0-2	1.5	0.2	0.0	0.0	0.0	0.0	0.0				
5-7	1.0	0.0	0.0	0.0	0.2	0.0	0.1				
7-9	0.5	0.4	No sample	0.5	0.4	0.0	170				
9-11	No	0.2	35	0.0		No sample	290				
11-13	recovery		45			No sample					

Bottom of boring

The soil samples were also used to characterize the subsurface sediments in the vicinity of the borings. The surficial material at each of the borings was either sand and gravel fill material or asphalt overlying fill material. The surficial fill layer generally extended to a depth of 2 to 3 feet with the exception of RIZ-3, which was drilled through the filled basement of a house. The fill was typically gray in color and contained coarse to fine sand, angular gravel, and traces of bricks, metal, coal, and ceramic tiles. Beneath the fill layer, reddish fine- to medium-grained sand with silt and round to angular gravel was encountered. With increasing depth from approximately 4 to 7 feet the amount of gray and red fine- to medium-grained dolomite fragments increased in the samples.

The bedrock surface beneath the Site was encountered at about 8 to 9 feet; however, the bedrock was weathered and in some of the borings could be augered through for a small distance. Borings RIZ-3 and RIZ-6 were drilled 4 and 5 feet, respectively, into weathered bedrock. When drilling through this material the hollow stemmed augers cored through competent rock horizons resulting in 1- to 2-inch thick plugs of the rock inside the augers. Between the competent horizons the borings penetrated reddish fine sand with silt.

Each boring was completed as a monitoring well except for RIZ-5. Monitoring wells were constructed of 2-inch-inside-diameter polyvinyl chloride (PVC) schedule 40 slotted well screen and solid riser. Filter sand was placed in the annular space around the screen to approximately one foot above the screen/riser connection. Approximately one foot of bentonite pellets was placed over the sand pack in each of the wells to restrict the percolation of surface water into the well screen. Native materials were backfilled around the riser pipe, and a gasketed iron road box closed with 9/16-inch

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hex-nuts was cemented flush to the ground over each well. The well pipes are fitted with padlocked expansion plugs.

5.2 COLLECTION OF SOIL SAMPLES FOR LABORATORY ANALYSIS

Two soil samples were collected from the Site for laboratory analysis during soil boring advancement on May 14, 1993 and a third surficial soil sample was collected from beside the metal storage shed north of the body shop building on May 14, 1993. The samples were collected according to the procedures in Appendix B. The samples were placed in bottles, labeled, and stored on ice for shipment via Federal Express to Alpha Analytical Labs in Westborough, Massachusetts.

One sample of water saturated soil was collected from 10 feet below grade in boring RIZ-4 when auger refusal was encountered at the level of the observed water table and it was uncertain whether a monitoring well set in the boring would be in the water table. When no water entered well RIZ-4 the soil sample (sample number FR-SS-RZ4-10FT) was submitted to the lab to be analyzed for Petroleum Scan by Gas Chromatograph including naphtha. A second soil sample was collected from the bottom of boring RIZ-5 when solid auger refusal on bedrock was encountered at 8 feet below grade. The sample was collected in lieu of a groundwater sample when solid bedrock refusal was encountered prior to reaching the water table. The sample was given sample number FR-SS-RZ5-8FT and was submitted to the laboratory to be analyzed for petroleum scan, including naphtha, by gas chromatograph and VOCs by EPA Method 8260.

One near surface soil sample was collected from near the metal storage shed beside the body shop building, 15-17 Pitkin Street. The soil sample was collected from 6 inches to 1 foot below grade in a hole dug north of the shed, next to the low side of the concrete slab underlying the shed. The sample was collected from the location where an overflow of liquid from the bermed concrete floor of the shed would reach the soil. The sample was given sample number FR-SS-SHED-107 and was submitted to the laboratory to be analyzed for VOCs by EPA Method 8260 and for petroleum scan, including naphtha by gas chromatograph.

5.3 SOIL SAMPLE ANALYSIS RESULTS

Laboratory Certificates of Analysis for the soil sample analyses are included in Appendix D. None of the targeted compounds were detected in the analyses of the soil samples.

5.4 GROUNDWATER SAMPLE COLLECTION

The monitoring wells on-site were sampled by Rizzo Associates personnel on May 14 1993. The wells were purged and sampled according to the standard procedures in Appendix B. Droplets of gold colored oil and a moderate oil odor were observed on

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the water from monitoring well RIZ-3, and a slight sheen was observed on the water from monitoring wells RIZ-1 and RIZ-7. The groundwater recharge to all of the monitoring wells was very slow and had a high silt content. RIZ-4 was dry on the sampling date.

Groundwater samples from each monitoring well were analyzed in the field for specific conductance and pH; the results of these analyses are given in Table 3. The pH measurements were made using pH paper. The pH values are within the range normally found in groundwater. The specific conductance values in some monitoring wells is elevated, probably as the result of road deicing salt.

TABLE 3											
RESULTS OF FI	RESULTS OF FIELD MEASUREMENTS OF SPECIFIC CONDUCTANCE AND PH										
Well Number	Well Number Specific Conductance (µmhos/cm) pH										
RIZ-1	950	7									
RIZ-2 RIZ-3	1,100 2,900	7 7									
RIZ-6	1,350	7									
RIZ-7	2,100 €	7									

The samples were placed in appropriate glassware and transported on ice to Alpha Analytical Labs on the date of collection. Samples from each well were submitted for analyses for VOCs by EPA Method 8260 and petroleum scan, including naphtha by gas chromatograph. Groundwater from monitoring wells RIZ-3 and RIZ-6 were submitted to be analyzed for soluble 13 priority pollutant metals plus barium.

5.5 GROUNDWATER ANALYSIS RESULTS

The positive laboratory analysis results from the groundwater samples are presented in Table 4 along with applicable water quality standards and guidelines for comparison. Complete Laboratory Certificates of Analysis are in Appendix D.

The analysis results identify two significant areas where hydrocarbons are present in the groundwater. Dissolved gasoline constituents and heating oil were detected in the groundwater near RIZ-3. Dissolved gasoline constituents, mineral spirits, and unknown hydrocarbon were detected in the hydrocarbon scan of the groundwater from RIZ-7. Unknown hydrocarbon was also detected in the water from RIZ-1. Alpha Analytical Labs was contacted regarding the nature of the unknown hydrocarbon. Jim Roth, Laboratory Manager, gave a preliminary indication that the unknown hydrocarbon could be some type of oil, which has been weathered and degraded over time; however, he is reviewing the analysis before offering a final opinion.

	MPLES		Standard or Trip Blank Guideline					CS CS CS CS CS CS		ž	S EX			1	1 BB		1.0	1.82
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	<u>ς</u> .		•RZ1-101 9303958-04 RIZ-1			Q.	2!	22		Q	욷	£	£	£	370		-	1
			Sample I.D.: Laboratory I.D.: Location:	Constituent	Volatile Organics (µg/L)	Benzene	Toluene	Zylenes Xylenes	Hydrocarbon Scan (mg/L)	Mineral Spirits	Gasoline	Fuel Oil #2/Diesel	Motor Oil	Naphtha	Unknown Hydrocarbon	Dissolved Metals (mg/L)	Barium	INICKE

The prefix FR-GW- was dropped from the beginning of all of the sample numbers to save space ND None detected

ND None detected

NO analyzed

NE Not established

NE Not state Groundwater Quality Standard

New York State Groundwater Quality Standard

5.6 GROUNDWATER FLOW DIRECTION

The locations and elevations of the well casings were surveyed by Herman J. Klingenberger, P.C. Land Surveyors of Rochester, New York on May 17, 1993. The elevation survey was conducted relative to the city of Rochester Elevation Datum. Depths to groundwater in the monitoring wells were measured on May 14, 1993 using an electronic water level probe.

Groundwater elevations from the May 14 measurements were calculated by subtracting the depth between groundwater and the top of the casing from the surveyed elevation of the casing. The casing elevation, measured distance from casing to PVC measuring point, depth to groundwater from the PVC measuring point, and groundwater elevation data are listed in Table 5.

······		TABLE 5									
GROUNDWATER ELEVATION DATA											
	Road Box Elevation*	Road Box - PVC (feet)	Depth to Groundwater from PVC (fect)	Groundwater Elevation*							
RIZ-1	522.60	0.26	7.87	514.47							
RIZ-2	522.61	0.45	8.25	513.91							
RIZ-3	520.19	0.50	7.28	512.41							
RIZ-4	523.28	0.48	> 8.83	< 513.93							
RIZ-5			no well								
RIZ-6	520.14	0.68	7.25	512.21							
RIZ-7	522.72	0.30	7.00	515.42							

Elevations relative to city of Rochester elevation datum

The results of the groundwater elevation survey are presented graphically as potentiometric surface contours on Figure 2. The potentiometric surface indicates that groundwater flow at the Site is northerly on the western portion of the Site and northeasterly on the eastern portion of the Site.

6.0 GROUNDWATER GEOLOGY OF SITE

The geology of the Site, based on soil borings and literature reviews consists of a relatively thin layer of overburden material 10 feet or less thick overlying Lockport Formation dolomite. The overburden includes a surficial fill layer, a thin layer of glacial till, and a layer of weathered bedrock. According to Water Resources in the Rochester Area, New York, I. G. Grossman and L.B. Yarger, USGS Geological Circular 246, published 1953, the area of the Site as being underlain by the Lockport Dolomite. The

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Lockport is described as a dark, fairly coarse grained rock with cavities, joints, and enlarged bedding planes.

Based on the geology of the Lockport Dolomite, the possibility exists that contaminated groundwater could flow into the bedrock; however, the potentiometric surface data currently available for the Site, although limited, show no indication of significant flow into the bedrock. The existence of such caverns or voids acting as a groundwater conduit would presumably dewater the overburden. However, the low gradient and flatness of the potentiometric surface at the Site and the consistent occurrence of the water table at the bedrock/overburden interface are interpreted to indicate that there are no significant caverns or other voids providing a conduit for groundwater flow into the Lockport from the Site.

Groundwater flow in the overburden on the Site is expected to be very slow. The grain size distribution in the overburden sediments from silt to medium sand is generally associated with low permeabilities. The low hydraulic gradient on the Site and absence of unpaved areas for precipitation to recharge the groundwater will contribute to slow groundwater flow. The assumption of low permeability in the overburden was supported by very slow recharge to the monitoring wells when they were purged for sampling.

Groundwater flow on the eastern portion of the Site appears to be more easterly than on the western portion of the Site. This is interpreted to reflect the presence of the "Inner Loop" highway 40 feet east of the Site. In this area the highway is in a 10- to 15-foot deep underpass where it travels beneath East Avenue. Discharge of groundwater into drainage associated with the underpass appears to be depressing the water table on the eastern portion of the Site. This lowering may be the reason that the water table was only inches above the bedrock surface in RIZ-4 and was beneath the bedrock surface in borings RIZ-5 and RIZ-6.

7.0 CONCLUSIONS

The results of this investigation indicate that there have been significant releases from USTs at two locations on the Site, the southeast corner of the 200 East Avenue parcel and the west side of the 24 Winthrop Street. The release on the 200 East Avenue parcel appears to be a gasoline release from either the existing UST at that location or an older, previously removed, UST. The release at 24 Winthrop appears to contain dissolved gasoline constituents from the gasoline UST at that location and also contains heating oil, presumably from the heating oil UST located beneath the west side of the 24 Winthrop Street Building.

Two of the USTs on the Site were located beneath buildings (UST Nos. 4 and 8) and one was located beneath a lot covered with junk cars (UST No. 7); therefore, the borings and monitoring wells intended to investigate the soil and groundwater near these USTs

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were installed downgradient from the USTs as near as was feasible. These borings and monitoring wells would presumably have detected large scale releases from the USTs. While no such large scale contamination was detected, smaller scale contamination could exist nearer the tanks and would not have been detected. In addition, the localized deflection of groundwater flow to the east by the "Loop Road" underpass meant that boring RIZ-5 was not directly downgradient of UST No. 8.

No soil or groundwater assessment was possible near UST No. 6, located beneath the parts warehouse at 62-64 Scio Street. The warehouse building completely fills the land surface of the lot leaving no access for a drill rig. While it is possible that soil or groundwater contamination is located beneath the parts warehouse building, it is considered unlikely that any action will be required to investigate the location because of the obstruction caused by the Site building and because the UST has been filled with concrete.

No waste petroleum naphtha was detected in soil samples collected from beneath the drum storage shed beside the body shop building; however, soil or groundwater contamination may exist beneath the garage portions of the buildings or in the vicinity of the USTs or hydraulic lifts located beneath the buildings. The unknown hydrocarbon detected in RIZ-1 may be an indication of such contamination; however, the absence of significant contamination in wells RIZ-2 and RIZ-6 indicate that if such contamination exists it is not heavily impacting the groundwater downgradient from the two largest buildings. However, if in the future the existing buildings are torn down, expenses may be incurred dealing with some amount of contaminated soil beneath the buildings.

8.0 LIMITATIONS

This report is subject to the limitations outlined in Appendix A. This study and report have been prepared on behalf of and for the exclusive use of Fleet Management & Recovery solely for use in an environmental evaluation of the Site. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of Rizzo Associates. However, Rizzo Associates acknowledges and agrees that, subject to the terms and conditions of our contract provided in Appendix A, the report may be conveyed to the client's attorney, lender, title insurer, regulatory agencies, and potential purchasers associated with the proximate purchase or refinancing of the Site by our client. Rizzo Associates would be pleased to discuss the conditions of dissemination of the report to additional parties associated with the transaction. The report has been prepared in accordance with the Terms and Conditions set forth in our contract dated May 10, 1993. No other warranty, express or implied, is made.

9.0 REFERENCES

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- New York State Department of Environmental Conservation, Hazardous Waste Manifest Report. From ERIIS computer database search dated May 17, 1993.
- New York State Department of Environmental Conservation, Petroleum Bulk Storage Report. From ERIIS computer database search dated May 17, 1993.
- New York State Department of Environmental Conservation, Spills List Report. From ERIIS computer database search dated May 17, 1993.

APPENDIX A

- 1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this report was carried out in accordance with the Terms and Conditions in our contract.
- 2. In preparing this report, Rizzo Associates has relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of State and/or local agencies available to Rizzo Associates at the time of the site assessment. Although there may have been some degree of overlap in the information provided by these various sources, Rizzo Associates did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.
- 3. Observations were made of the Site and of structures on the Site as indicated within the report. Where access to portions of the Site or to structures on the Site was unavailable or limited, Rizzo Associates renders no opinion as to the presence of hazardous materials or oil, or to the presence of indirect evidence relating to hazardous material or oil, in that portion of the Site or structure. In addition, Rizzo Associates renders no opinion as to the presence of hazardous material or oil, or the presence of indirect evidence relating to hazardous material or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces.
- 4. Rizzo Associates did not perform testing or analyses to determine the presence or concentration of asbestos at the Site or in the environment at the Site.
- 5. The purpose of this report is to assess the physical characteristics of the subject Site with respect to the presence in the environment of hazardous material or oil. No specific attempt was made to check on the compliance of present or past owners or operators of the Site with federal, state, or local laws and regulations, environmental or otherwise.
- 6. The conclusions and recommendations contained in this report are based in part, where noted, upon the data obtained from a limited number of soil samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

- New York State Department of Environmental Conservation, Inactive Hazardous Waste Disposal Sites List, dated April 1, 1992. From ERIIS computer database search dated May 17, 1993.
- Phase I Environmental Liability Assessment, Hallman Chevrolet Ltd. Property, Rochester, New York, prepared by Fred C. Hart Associates, Inc., Albany, New York. June 12, 1989.
- Sanborn Fire Insurance maps, dated 1892, 1912, 1938, 1950, and 1971.
- United States Environmental Protection Agency. CERCLIS List. From ERIIS computer database search dated May 17, 1993.
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- United States Environmental Protection Agency. Resource Conservation and Recovery
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- 7. Any water level readings made in test pits, borings, and/or observation wells were made at the times and under the conditions stated on the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.
- 8. Except as noted within the text of the report, no quantitative laboratory testing was performed as part of the site assessment. Where such analyses have been conducted by an outside laboratory, Rizzo Associates has relied upon the data provided and has not conducted an independent evaluation of the reliability of these data.
- 9. The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. As indicated within the report, some of these data may be preliminary "screening" level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.
- 10. Chemical analyses have been performed for specific constituents during the course of this site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the Site.

STANDARD OPERATING PROTOCOL FOR DECONTAMINATING SAMPLING EQUIPMENT

Whenever possible, sampling equipment will be dedicated to each sampling location or disposable equipment will be used. When this is not possible, field decontamination of the equipment will occur prior to the collection of samples for chemical analysis. The method of choice for decontamination is that which most fully removes site contaminants from the sampling equipment with the least interference to the ultimate chemical analysis. Do not use fluids that have been stored in plastic bottles to decontaminate field equipment. Deionized water and methanol used for decontamination should be stored in nalgene or teflon bottles.

Equipment used to collect samples for chemical analysis will be decontaminated as follows:

- 1. Wash equipment with a nonphosphate detergent solution (e.g., Alconox) and a brush.
- 2. Rinse thoroughly with tap water.
- 3. Rinse with reagent grade methanol.
- 4. Rinse the equipment thoroughly with deionized water.
- 5. Equipment that is stored or transported will be kept in a dedicated plastic bag or wrapped in aluminum foil to prevent contamination prior to use.
- 6. When collecting water samples, rinse the equipment three times with the media being sampled before collecting the sample.

Steam cleaning is another acceptable technique for field decontamination.

Decontamination procedures will be recorded in the field book or on the field report form. These entries will include the date, time, location, personnel, equipment, and specific procedures used for the decontamination of field equipment and the source of all fluids, including water, used in the procedure. Deviations from the standard protocols will also be noted in the field log.

Waste water and methanol solutions generated during decontamination procedures will be discharged on-site, provided that the pH is between 2 and 12.

STANDARD OPERATING PROTOCOL FOR COMPLETING SOIL BORINGS AND MONITORING WELL BORINGS IN UNCONSOLIDATED SURFICIAL DEPOSITS

- 1. All drilling is inspected continuously by a staff geologist or inspector. The geologist or inspector is familiar with the particular drilling program, and is responsible for ensuring that established procedures are followed. The geologist or inspector has the authority to modify the program and/or procedures when warranted by unanticipated field conditions.
- 2. The geologist or inspector is responsible for maintaining field notes and for keeping a well log independent of the driller.
- 3. All drilling equipment is steam-cleaned prior to each use. Steam cleaning is performed on the augers and/or casing, drilling rods, samplers, auger forks, lifting hooks, and other equipment needed for establishing the well. The working end of the drill rig is steam-cleaned, and the rig is generally inspected by the geologist or inspector for evidence of leaks (i.e., gasoline or diesel fuel and hydraulic fluid). Finally, well construction materials, including casing, screens, protective risers, and/or road boxes, are also steam-cleaned prior to use.
- 4. Soil samples are collected at five-foot intervals unless otherwise specified, and/or at changes in strata, utilizing a clean split-spoon sampler. These soil samples are used for characterizing the physical nature of the subsurface sediments and may be collected for laboratory analyses. Similarly, spoon samples may be screened in the field for contamination utilizing appropriate field analytical devices.
- 5. Sediments collected from the sampler or brought to the surface by the drilling process are left on-site, unless there are specific instructions to the contrary. Sediments will be screened using a photoionization detector (PID) or a flame ionization detector (FID), and the results of that screening will be used to determine the disposal method for the soil. Soils exhibiting detector responses of greater then 10 ppm will be placed in drums or will be stockpiled on and covered with polyethylene sheeting. Soils exhibiting responses of less than 10 ppm will be placed in an unlined stockpile on the site.
- 6. When installing a groundwater monitoring well, the well screen is set at a depth whereby it intercepts the surface of the water table, unless otherwise specified. The screen is set to extend above the highest anticipated groundwater levels to a maximum of within two feet of the land surface. The annular space between the wall of the bore hole and the screen is then packed with clean silica sand to a level one foot above the screen (to allow for settling), and then with a minimum one-foot bentonite seal. The method of backfilling the bore hole above the bentonite seal will be left to the discretion of the site geologist or inspector. If

the bore hole creates the potential for migration of contaminants into previously uncontaminated deposits, the bore hole will be filled with a portland cement and bentonite slurry. If migration of contaminants is not a concern, then the well will be backfilled with the drill cuttings if detector responses are less than 10 ppm, or with clean backfill material if detector responses are greater than 10 ppm. The final one foot is filled with cement, into which is set a protective riser with locking cap or a road box.

- 7. 8.
- Data and Information Management

Project milestone

Project milestone requiring performance evaluation

UFI shall be utilized on an as needed basis, as determined by the Department.

4.0 STAFFING PLAN

Management and primary technical staff that will be assigned to this Work Assignment. are listed below.

Rizzo Associates Engineering, P.C. Personnel:

Vice President, NSPE Grade VIII Richard J. Hughto

Senior Project Manager, NSPE Grade VII Nancy C. Roberts Peylina Chu Senior Project Engineer, NSPE Grade V Senior Project Engineer, NSPE Grade VI James D. Doherty

Ann M. Roseberry Project Scientist, NSPE Grade V Senior Technician, NSPE Grade II Deborah A. Canty

Upstate Freshwater Institute Personnel:

Dr. Steven W. Effler Director of Research, NSPE Grade

The expected level of effort from the staff listed above is specified in the budget. Dr. Hughto shall be responsible for overall project quality control and will provide technical oversight and review of all project deliverables. Ms. Roberts will provide project management and cost tracking, quality assurance/quality control coordination and technical oversight. Ms. Chu will oversee research relating to mercury contamination and remediation, coordinate activities with the Department and UFI, and assist in the preparation and review of deliverables. Mr. Doherty and Ms. Roseberry will assist in technical research efforts. Ms. Canty will assist in preparation of deliverables and maintenance of project records, including monthly Cost Control and Project Summary Reports. Dr. Effler and UFI staff will provide technical advice to the Department on an as needed basis. Additional support staff from the team firms will be assigned as needed.

5.0 SUBCONTRACTS

STANDARD OPERATING PROTOCOL FOR SAMPLING MONITORING WELLS

DISCUSSION

To obtain a representative sample of groundwater, it must be understood that the water within the well casing and in close proximity to the well is generally not representative of the groundwater quality at that sampling site. Therefore, the well will be pumped or bailed until it is thoroughly flushed of standing water and contains water from the aquifer. Wells may be purged and sampled with a pump from the ground surface, with a submersible pump or with a bailer, depending on the specific needs of the sampling program. Bailers are generally preferred for collecting samples where volatile stripping is of concern. Pumps are useful for purging large volumes of water from deep wells or when a sample from a discrete depth below the water surface is desired. Refer to DEP Policy #WSC-310-91 to chose the appropriate method for purging and sampling a well and operate sampling equipment according to manufacturer's directions.

PROCEDURES FOR PURGING AND SAMPLING

1. Using clean, noncontaminating equipment (i.e., an electronic level indicator [avoid indicating paste]), determine and record in the field logbook the water level in the well, then calculate the fluid volume in the casing.

The volume of water in the well can be calculated using the following equation:

$$v = (\pi r^2 h)/c$$

v = one well volume of water (gallons)

 $\pi = 3.14$

r = the radius of the well or one half of the diameter (inches)

h=the height of the water column in the well (inches)

c= 231 cubic inches per gallon; constant to convert cubic inches to gallons

- 2. Use a pump or bailer to begin flushing the well. Periodically during the purging of the well, measure and record the pH, temperature, and specific conductivity of the water being removed.
- 3. Avoid contamination and do not allow sampling equipment or the bailer line to contact the ground while sampling.
- 4. Continue purging the well until the following is achieved:
 - a. a minimum of three casing volumes have been removed from the well, and pH, temperature, and conductivity have stabilized; or
 - b. five well volumes have been removed; or

c. the well is evacuated to dryness

Three times the well volume (gallons) in a 2-inch-diameter well is approximately one half the height of the water column measured in feet.

- 5. After water pH, temperature, and specific conductance have stabilized, allow the water level to return to a sufficient level to collect a complete sample and proceed with the sample collection as described below.
- 6. Select sample bottles and preservative as required by the analysis. Sample bottles containing preservative may be obtained from the laboratory, or samples may be preserved in the field. Samples for metals analysis that require field filtering will be collected in a transfer vessel and then filtered into a preserved container.
- 7. When transferring the sample in the bailer to the sample container, tip the bailer to allow a slow discharge from the bailer top to flow gently down the side of the sample bottle with minimum entry turbulence.
- 8. When collecting a sample with a pump, the flow rate of the pump should be low so as to minimize disturbing the sample.
- 9. In order to compare analytical data for a given well over time, the same purging and sampling method should be used consistently at a given well.
- 10. Check that a teflon liner is present in the cap, if required. Secure the cap tightly.
- 11. Label the sample bottle with an appropriate label and waterproof ink. Record the sample number, location, well purging information, the temperature, pH, specific conductivity, and deviations from protocol and relevant observations, such as colors, odors, or sheens, in the field logbook. Complete the chain of custody. Samples will be stored in a cooler until they are delivered to the laboratory.
- 12. Discard disposable bailers after use in one well. If reusable bailers are used, clean and store each bailer according to the Standard Operating Protocol for Decontaminating Sampling Equipment.
- Tubing used with a pump may be discarded after each well or cleaned by pumping the decontamination fluids through the tubing according to the Standard Operating Procedure for Decontaminating Field Equipment.

ADAPTED FROM:

Standard References for Monitoring Wells, The Massachusetts Department of Environmental Protection #WSC-310-91.

STANDARD OPERATING PROTOCOL FOR JAR HEADSPACE SCREENING

The following procedures will be used to screen soil samples for volatile organic compounds with a portable photoionization detector (PID) or a flame ionization detector (FID).

- 1. Half-fill a clean glass 8-ounce jar with the sample to be analyzed. Quickly cover the open top with a sheet of clean aluminum foil and apply the screw cap to tightly seal the jar.
- 2. Vigorously shake the jar for 10 seconds both at the beginning and end of the headspace development period. Allow the jar to stand 10 minutes for headspace development. When ambient temperatures are below 32°F (0°C), allow the samples to stand in a heated vehicle or building.
- 3. After the headspace development period, remove screw lid to expose the foil seal. Puncture the foil seal with an instrument sampling probe, to a point about one-half of the headspace depth. Do not allow water droplets or soil particulates to touch the instrument probe.
- 4. Observe the instrument response and record the highest meter response as the jar headspace concentration. The maximum response should occur from two to five seconds after the probe is inserted into the jar. The meter response may be erratic when the concentration of organic vapor is high or if there is excessive moisture in the sample. The experience and judgement of the instrument operator must be used to determine the validity of the headspace measurement.
- 5. Benzene or an equivalent compound will be used to calibrate the field screening instrument. Jar headspace sample results will be reported as "total organic vapors" in ppm (v/v). Instruments will be operated, maintained, and calibrated in accordance with the manufacturer's specifications. A calibration and maintenance log is kept at Rizzo Associates' office for each instrument. The daily calibration data are transcribed to the field log for each day that the instrument is used. Some samples may be collected and analyzed in duplicate to measure sample variability.

STANDARD OPERATING PROTOCOL FOR SOIL SAMPLING WITH A SPADE AND SCOOP

DISCUSSION

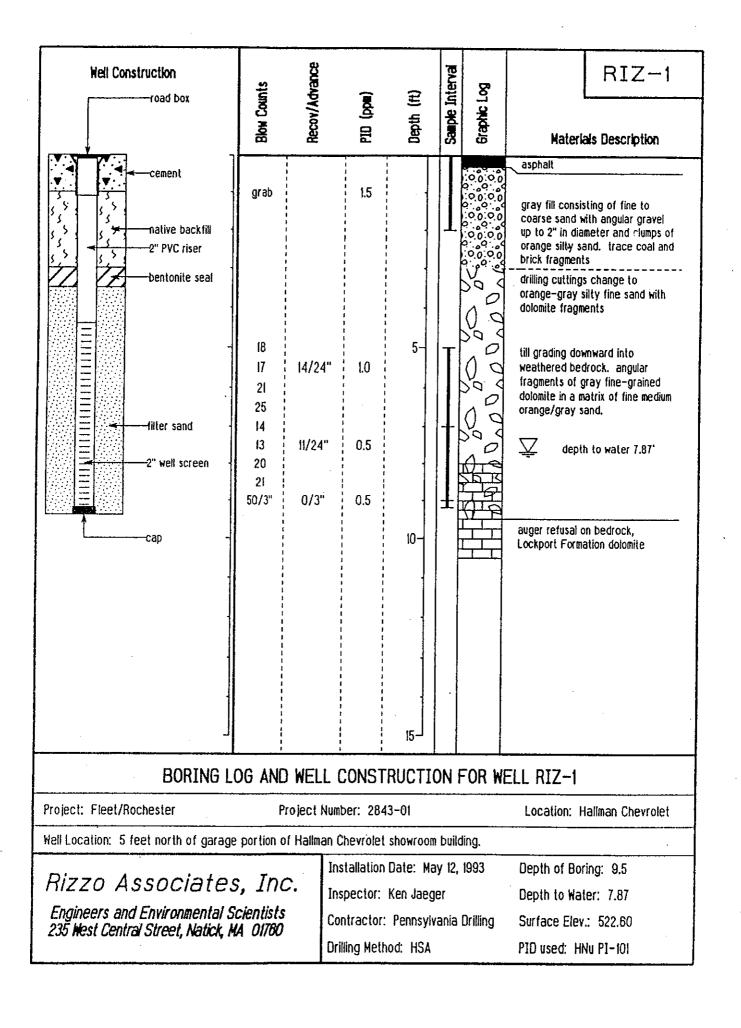
The simplest, most direct method of collecting soil samples is with a spade and scoop. Remove the top cover of soil to the required depth with a lawn or garden spade and then use a smaller stainless steel scoop to collect the sample.

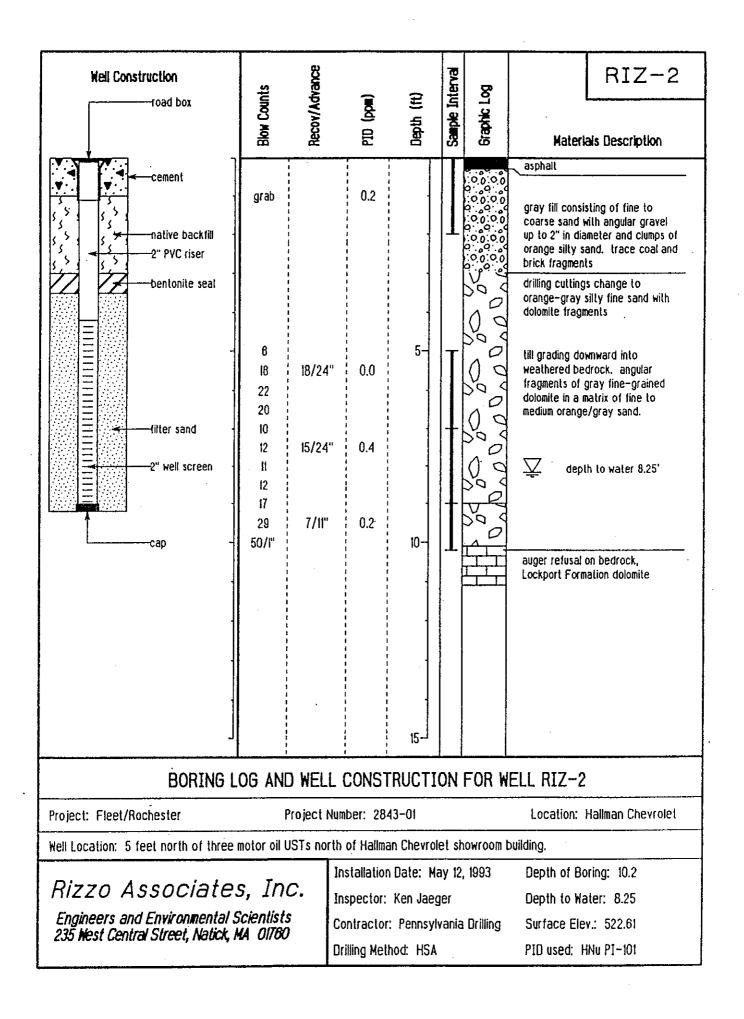
USES

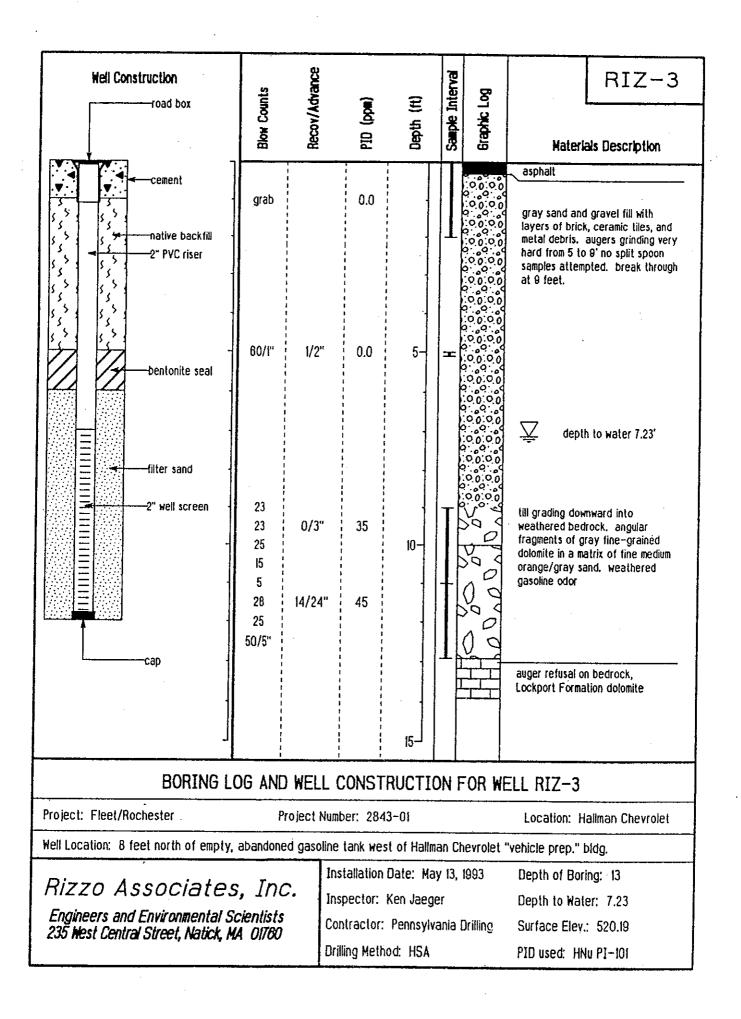
This method can be used in most soil types but is limited to sampling near the surface. Samples from depths greater than 50 cm are extremely labor intensive in most soil types. Very accurate, representative samples can be collected with this procedure. Use a flat, pointed mason trowel to cut a block of the desired soil when undisturbed profiles are required. A stainless steel scoop or lab spoon can be used in most other applications. Avoid the use of devices plated with chrome or other materials that may contaminate samples for laboratory analysis.

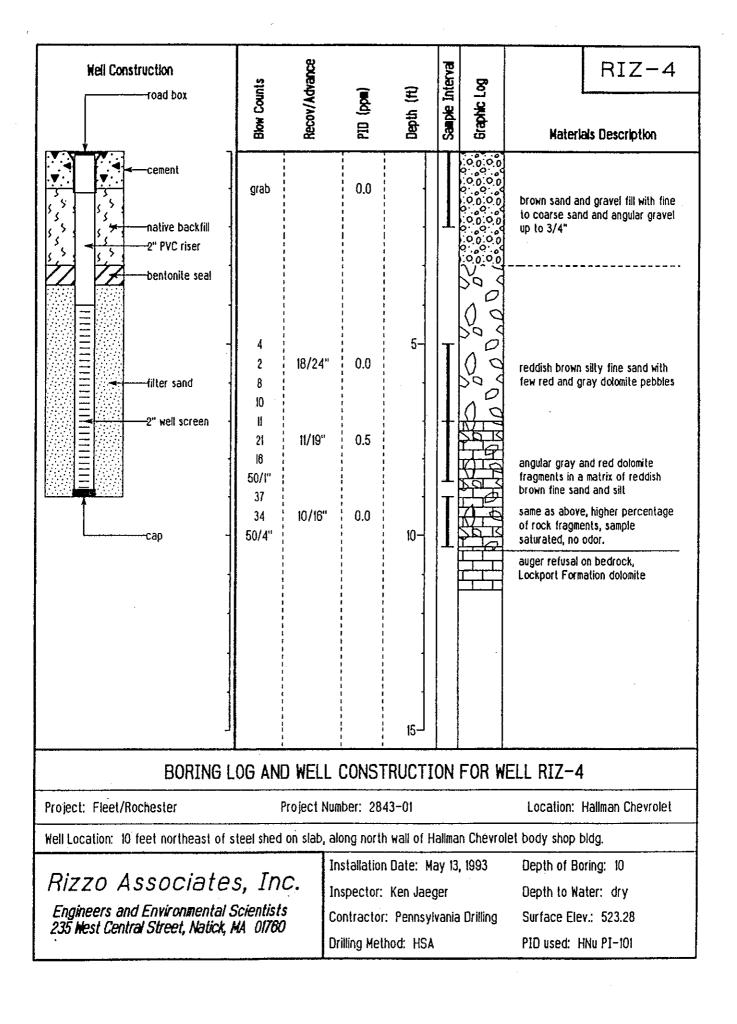
PROCEDURES FOR USE

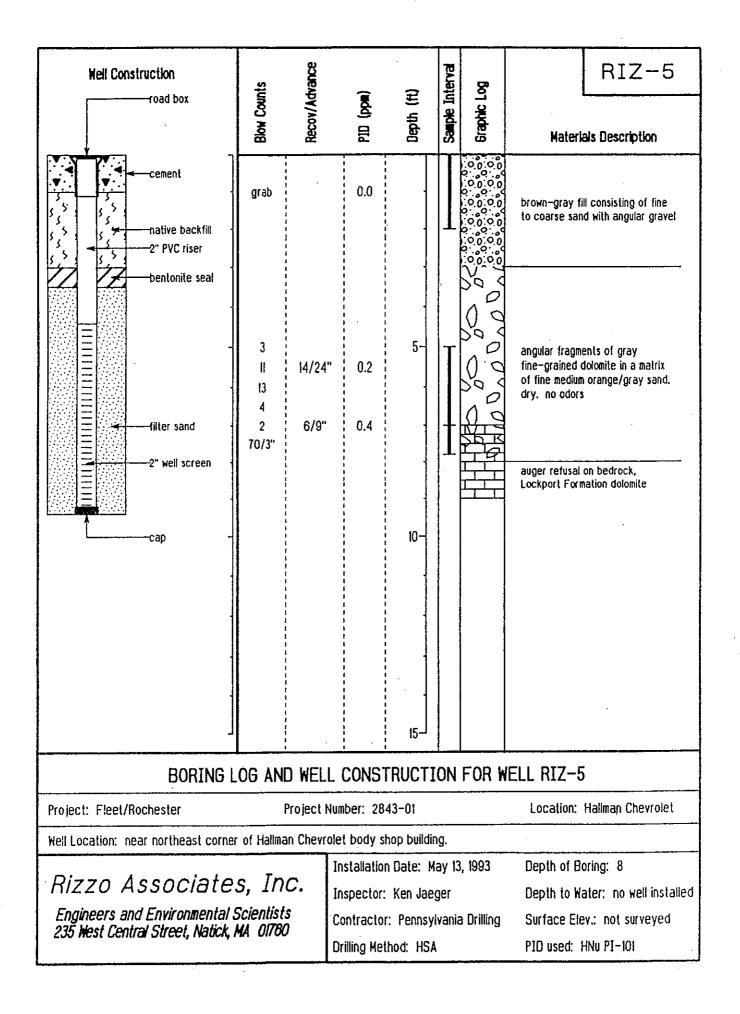
- 1. Prior to initiating any work, the Field Technician and the Project Manager will review the Health and Safety Plan developed for the specific site activities. The indicated measures of the Plan should be enacted prior to initiation of the sampling activities. Concerns not addressed in the Health and Safety Plan document are to be brought immediately to the attention of the Health and Safety Officer.
- 2. Carefully remove the top layer of soil to the desired sample depth with a shovel or spade.
- 3. Use a stainless steel scoop or trowel to remove and discard the layer of soil that was in contact with the shovel.
- 4. Collect the sample and transfer it to an appropriate sample bottle with a stainless steel spoon or equivalent.
- 5. Check that a teflon liner is present in the cap, if required. Secure the cap tightly.
- 6. Label the sample jar and document the sample location, depth and field conditions in the field log. Complete the chain-of-custody. Store samples for laboratory analysis in a cooler.

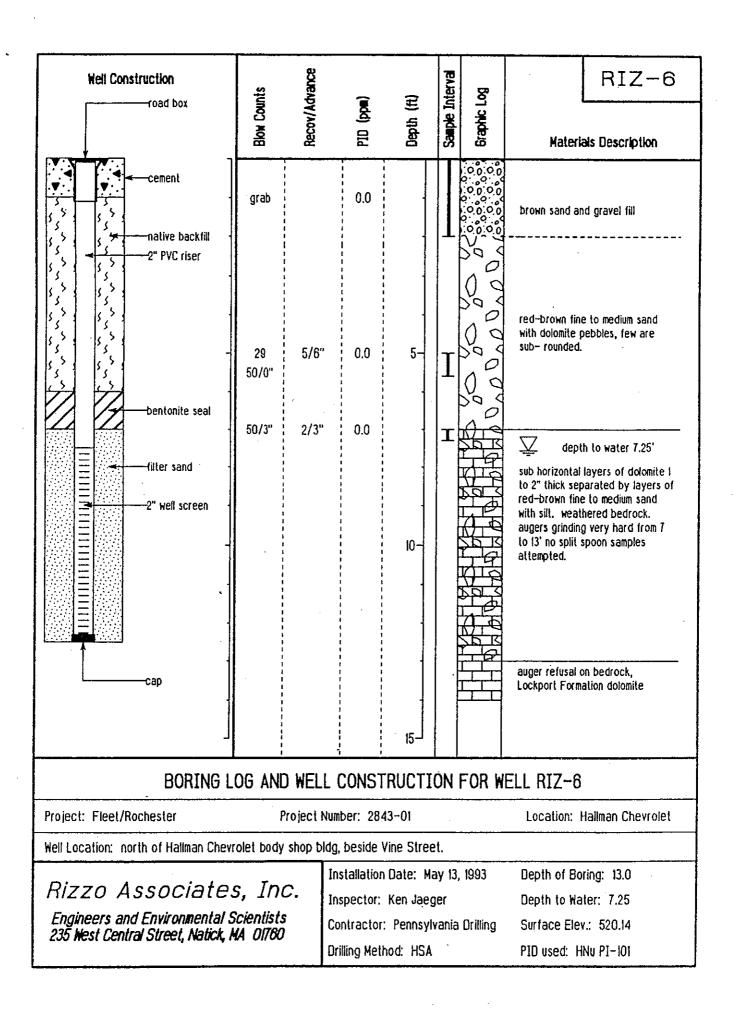


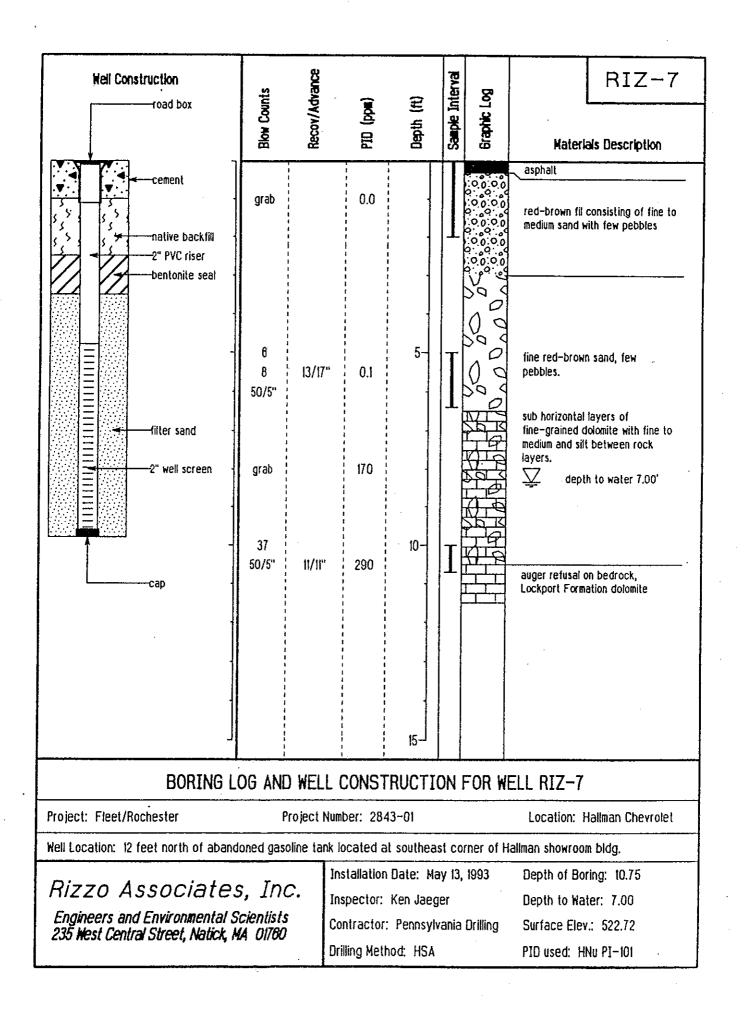












ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive Westborough, Massachusetts 01581-1019 (508) 898-9220

. MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Rizzo Associates Laboratory Job Number: L9303958

Address: 235 West Central Street Invoice Number: 52383

Natick, MA 01760 Date Received: 17-MAY-93

Attn: Ken Jaeger Date Reported: 18-MAY-93

Project Number: 2843-01 Delivery Method: Fed ex

Site: Fleet

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9303958-01	FR-SS-RZ4-10FT	Rochester
L9303958-02	FR-SS-RZ5-8FT	Rochester
L9303958-03	FR-SS-SHED-107	Rochester
L9303958-04	FR-GW-RZ1-101	Rochester
L9303958-05	FR-GW-RZ2-102	Rochester
L9303958-06	FR-GW-RZ3-103	Rochester
L9303958-07	FR-GW-RZ6-104	Rochester
L9303958-08	FR-GW-RZ7-105	Rochester
L9303958-09	FR-GW-RZ71-106	Rochester
L9303958-10	TRIP BLANK	Rochester

Authorized by:

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-01

FR-SS-RZ4-10FT

Date Received: 17-MAY-93

Sample Matrix:

SOIL

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Solids, Total	80.	ે -	0.10	3	2540B	18-May
Hydrocarbon Scan GC 8100	Modified			1	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/kg	10.			
Gasoline	ND	mg/kg	10.			
Fuel Oil #2/Diesel	ND	mg/kg	10.			
Fuel Oil #4	ND	mg/kg	10.			
Fuel Oil #6	ND	mg/kg	10.			
Motor Oil	ND	mg/kg	10.			
Kerosene	ND	mg/kg	10.			

Comments: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-02

FR-SS-RZ5-8FT

Date Received: 17-MAY-93

Sample Matrix:

SOIL

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Glass, 1 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Solids, Total	86.	ક	0.10	3	2540B	18-May
Volatile Organics by GC/MS		· · · · · · · · · · · · · · · · · · ·	,	1	8260	18-MAY
Methylene chloride	ND	ug/kg	25.			
1,1-Dichloroethane	ND	ug/kg	7.5			
Chloroform	ND	ug/kg	7.5			
Carbon tetrachloride	ND	ug/kg	5.0			
1,2-Dichloropropane	ND	ug/kg	18.			
Dibromochloromethane	ND	ug/kg	5.0			
1,1,2-Trichloroethane	ND	ug/kg	7.5			
2-Chloroethylvinyl ether	ND	ug/kg	50.		÷	
Tetrachloroethene	ND	ug/kg	7.5			
Chlorobenzene	ND	ug/kg	. 18.			
Trichlorofluoromethane	ND	ug/kg	25.			
1,2-Dichloroethane	ND	ug/kg	7.5			
1,1,1-Trichloroethane	ND	ug/kg	5.0			
Bromodichloromethane	ND	ug/kg	5.0			
trans-1,3-Dichloropropene	ND	ug/kg	7.5			
cis-1,3-Dichloropropene	ND	ug/kg	5.0			
Bromoform	ND	ug/kg	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0			
Benzene	ND	ug/kg	5.0			
Toluene	ND	ug/kg	7.5			
Ethylbenzene	ND	ug/kg ug/kg	5.0			•
Chloromethane	ND	ug/kg ug/kg	50.			
Bromomethane	ND	ug/kg ug/kg	10.			
Vinyl chloride	ND	ug/kg ug/kg	18.			
Chloroethane	ND	ug/kg	10.			
1,1-Dichloroethene	ND	ug/kg ug/kg	7.5			
trans-1,2-Dichloroethene	ND	ug/kg	7.5			
Trichloroethene	ND	ug/kg	5.0			
1,2-Dichlorobenzene	ND	ug/kg	50.			
1,3-Dichlorobenzene	ND	ug/kg	50.			
1,4-Dichlorobenzene	ND	ug/kg	50.		•	
Methyl tert butyl ether	ND	ug/kg	50.			
Xylenes	ND	ug/kg	5.0			
-	ND	ug/kg ug/kg	5.0			
cis-1,2-Dichloroethene						,
Dibromomethane	ND	ug/kg	50.			*

Comments: * Complete list of References found in Addendum I

ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9303958-02

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	18-MAY
1,4-Dichlorobutane	ND	ug/kg	50.			•
Iodomethane	ND	ug/kg	50.			
1,2,3-Trichloropropane	ND	ug/kg	50.			
Styrene	ND	ug/kg	5.0			
Dichlorodifluoromethane	ND	ug/kg	50.			
Acetone	ND	ug/kg	50.			,
Carbon disulfide	ND	ug/kg	50.			
2-Butanone	ND	ug/kg	23.			
Vinyl acetate	ND	ug/kg	50.			
4-Methyl-2-pentanone	ND	ug/kg	50.			
2-Hexanone	ND	ug/kg	50.			
Ethyl methacrylate	ND	ug/kg	50.			
Acrolein	ND	ug/kg	130			
Acrylonitrile	ND	ug/kg	50.			
SURROGATE RECOVERY						÷
1,2-Dichloroethane-d4	98.0	8				
Toluene-d8	98.0	8				
4-Bromofluorobenzene	95.0	¥				
Hydrocarbon Scan GC 8100 Mc	dified			1	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/kg	50.			
Gasoline	ND	mg/kg	50.			
Fuel Oil #2/Diesel	ND	mg/kg	50.			
Fuel Oil #4	ND	mg/kg	50.			•
Fuel Oil #6	ND	mg/kg	50.			
Motor Oil	ND	mg/kg	50.			
Kerosene	ND	mg/kg	50.			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-03

FR-SS-SHED-107

Date Received: 17-MAY-93

Sample Matrix:

SOIL

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Solids, Total	89.	¥	0.10	3	2540B	18-May
Volatile Organics by GC/MS				1 .	8260	18-MAY
Methylene chloride ·	ND	ug/kg	25.			
l,1-Dichloroethane	ND	ug/kg	7.5			
Chloroform	MD	ug/kg	7.5			
Carbon tetrachloride	ND	ug/kg	5.0 _.			
1,2-Dichloropropane	ND	ug/kg	18.			•
Dibromochloromethane	ND	ug/kg	5.0			
1,1,2-Trichloroethane	ND	ug/kg	7.5			
2-Chloroethylvinyl ether	ND	ug/kg	50.			
Tetrachloroethene	ND	ug/kg	7.5			
Chlorobenzene	ND	ug/kg	18.			
Trichlorofluoromethane	ND	ug/kg	25.			
1,2-Dichloroethane	ND	ug/kg	7.5			
1,1,1-Trichloroethane	ND	ug/kg	5.0			
Bromodichloromethane	ND	ug/kg	5.0			
trans-1,3-Dichloropropene	ND	ug/kg	7.5			
cis-1,3-Dichloropropene	ND	ug/kg	5.0			
Bromoform	ND .	ug/kg	5.0		•	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0			
Benzene	ND	ug/kg	5.0			
Toluene	ND	ug/kg	7.5			
Ethylbenzene	ND	ug/kg	5.0			
Chloromethane	ND	ug/kg	50.			
Bromomethane	ND	ug/kg	10.		•	-
Vinyl chloride	ND	ug/kg	18.			
Chloroethane	ND	ug/kg	10.		•	
1,1-Dichloroethene	ND	ug/kg	7.5			
trans-1,2-Dichloroethene	ND	ug/kg	7.5			
Trichloroethene	ND	ug/kg	5.0			
1,2-Dichlorobenzene	ND	ug/kg	50.			•
1,3-Dichlorobenzene	ND	ug/kg	50.			. '
1,4-Dichlorobenzene	ND	ug/kg	50.			
Methyl tert butyl ether	ŊD	ug/kg	50.			
Xylenes	ND	ug/kg	5.0			
cis-1,2-Dichloroethene	ND	ug/kg	5.0			
Dibromomethane	ND	ug/kg	50.			

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	18-MAY
1,4-Dichlorobutane	ND	ug/kg	50.			
Iodomethane	ND	ug/kg	50.			
1,2,3-Trichloropropane	ND	ug/kg	50.			
Styrene	ND	ug/kg	5.0			
Dichlorodifluoromethane	ND	ug/kg	50.			
Acetone	ND	úg/kg	50.			
Carbon disulfide	ND	ug/kg	. 50.			
2-Butanone	ND .	ug/kg	23.			
Vinyl acetate	ND.	ug/kg	50.			
4-Methyl-2-pentanone	ND	ug/kg	50.			
2-Hexanone	ND	ug/kg	50.			
Ethyl methacrylate	ND	ug/kg	50.			
Acrolein	ND	ug/kg	130			
Acrylonitrile	ND	ug/kg	50.			
SURROGATE RECOVERY						
1,2-Dichloroethane-d4	90.0	*				
Toluene-d8	99.0	*				
4-Bromofluorobenzene	85.0	ક				
Hydrocarbon Scan GC 8100 Mc	dified			1	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/kg	50.			
Gasoline	ND	mg/kg	50.			
Fuel Oil #2/Diesel	ND	mg/kg	50.			
Fuel Oil #4	ND	mg/kg	50.			
Fuel Oil #6	ND	mg/kg	50.			
Motor Oil	ND	mg/kg	50.			
Kerosene	ND	mg/kg	50.			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-04

FR-GW-RZ1-101

Date Received: 17-MAY-93

Sample Matrix:

LIQUID

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Amber Glass, 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS			*	1	8260	18-MAY
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	, MD	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			·
1,1,2-Trichloroethane	ND	ug/l	1.5			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Tetrachloroethene	ND	ug/l	1.5			
Chlorobenzene	ND	ug/l	3.5			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.5			
1,1,1-Trichloroethane	ND	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.5			
cis-1,3-Dichloropropene	ND	ug/l	1.0		2	
Bromoform	ND	ug/l	1.0			
1,1,2,2-Tetrachloroethane	ND	ug/1	1.0			
Benzene	ND	ug/l	1.0			•
Toluene	ND	ug/l	1.5			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	10.			
Bromomethane	ND	ug/l	2.0			
Vinyl chloride	ND	ug/1	3.5			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.5			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Frichloroethene	ND	ug/l	1.0			
l,2-Dichlorobenzene	ND	ug/l	10.			
1,3-Dichlorobenzene	ND	ug/l	10.			
l,4-Dichlorobenzene	ND	ug/l	10.			
Methyl tert butyl ether	ND	ug/l	10.			
(ylenes	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
,4-Dichlorobutane	ND	ug/1	10,			,
Iodomethane	ND	ug/l	10.			

PARAMETER	RESULT	UNITS	RDL	REF	METHOD ·	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	18-MAY
1,2,3-Trichloropropane	ND	ug/l	10.	•		
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
Acetone	ND	ug/l	10.			
Carbon disulfide	ND	ug/l	10.		·	
2-Butanone	ND	ug/l	4.5			
Vinyl acetate	ND	ug/l	10.			
4-Methyl-2-pentanone	ND	ug/l	10.			
2-Hexanone	ND	ug/l	10.			•
Ethyl methacrylate	ND	ug/l	10.			
Acrolein	ND	ug/l	25.			
Acrylonitrile	ND	ug/l	10.			
SURROGATE RECOVERY						
1,2-Dichloroethane-d4	107.	કૃ				
Toluene-d8	92.0	윻				
4-Bromofluorobenzene	98.0	f				
Hydrocarbon Scan GC 8100 Mod	lified	1		1	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/l	1.0			
Gasoline	ND	mg/l	1.0			
Fuel Oil #2/Diesel	ND	mg/l	1.0			
Fuel Oil #4	ND	mg/l	1.0			•
Fuel Oil #6	ND	mg/l	1.0			
Motor Oil	ND	mg/l	1.0			
Kerosene	ND	mg/l	1.0			•
Unknown Hydrocarbon	370	mg/l	1.0			
Naphtha	ND	mg/l	1.0			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-05

FR-GW-RZ2-102

Date Received: 17-MAY-93

Sample Matrix:

LIQUID

Date Reported: 18-MAY-93

Condition of Sample: Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Amber Glass, 2 Vial

trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
1,1-Dichloroethane Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane ND 2-Chloroethylvinyl ether Tetrachloroethene ND Chlorobenzene ND Trichlorofluoromethane ND 1,2-Dichloroethane ND 1,1-Trichloroethane ND 1,1,1-Trichloroethane ND Erans-1,3-Dichloropropene ND Cis-1,3-Dichloropropene ND Romoform ND 1,1,2,2-Tetrachloroethane ND Ethylbenzene ND Chloromethane ND Chloromethane ND Chloromethane ND Toluene ND Chloroethane ND Trichloroethene ND Trichlorobenzene ND ND Methyl tert butyl ether ND Methyl tert butyl ether			1	8260	17-MAY
Chloroform Carbon tetrachloride 1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane 2-Chloroethylvinyl ether Tetrachloroethene ND Chlorobenzene ND Trichlorofluoromethane 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND Trans-1,3-Dichloropropene ND Romoform ND ND ND Romoform ND ND Chloromethane ND Cis-1,3-Dichloropropene ND Cis-1,3-Dichloropropene ND Cis-1,3-Dichloropropene ND Cis-1,3-Dichloropropene ND Cis-1,3-Dichloropropene ND Cis-1,3-Dichloropropene ND Chloromethane ND Toluene ND Toluene ND Toluene ND Chloromethane ND Chloromethane ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichlorobenzene ND	ug/l	5.0			
Carbon tetrachloride ND 1,2-Dichloropropane ND Dibromochloromethane ND 1,1,2-Trichloroethane ND 2-Chloroethylvinyl ether ND Tetrachloroethene ND Chlorobenzene ND Trichloroethane ND 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Enzene ND Toluene ND Ethylbenzene ND Chloromethane ND Chloroethane ND Trichloroethene ND Trichlorobenzene ND 1,3-Dichlorobenzene ND Methyl tert butyl ether ND Methyl tert ND	ug/l	1.5			
1,2-Dichloropropane Dibromochloromethane 1,1,2-Trichloroethane 2-Chloroethylvinyl ether ND Tetrachloroethene Chlorobenzene ND Trichlorofluoromethane ND 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND 1,1,1-Trichloroethane ND Erans-1,3-Dichloropropene ND	ug/l	1.5			
Dibromochloromethane 1,1,2-Trichloroethane 2-Chloroethylvinyl ether Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND 1,1,1-Trichloroethane ND Erans-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Ethylbenzene ND Chloromethane ND Chloromethane ND Chloroethane ND Toluene Toluene Toluene Toluene Toluene Toluoroethane ND Chloromethane ND Toluoroethane ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichlorobenzene ND ND ND Tolchlorobenzene ND ND Tolchlorobenzene ND Tolchlorobenzene ND Tolchlorobenzene ND Methyl tert butyl ether ND MD MD METHYL ST ND MD MD MD MD MD MD MD MD MD	ug/l	1.0			
1,1,2-Trichloroethane 2-Chloroethylvinyl ether Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane 1,1,1-Trichloroethane Bromodichloromethane Trians-1,3-Dichloropropene Cis-1,3-Dichloropropene Bromoform ND 1,1,2,2-Tetrachloroethane ND Ethylbenzene Toluene Ethylbenzene Chloromethane ND Chloromethane ND Toluene ND Toluene ND Toluene ND Trichloroethene ND Trichlorobenzene ND	ug/l	3.5			
2-Chloroethylvinyl ether Tetrachloroethene Chlorobenzene Trichlorofluoromethane 1,2-Dichloroethane 1,1,1-Trichloroethane Bromodichloromethane Trians-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Enzene ND Toluene Ethylbenzene Chloromethane ND Chloromethane ND Chloroethane ND Toluene ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichlorobenzene ND	ug/l	1.0			
Tetrachloroethene ND Chlorobenzene ND Trichlorofluoromethane ND 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Chloroethane ND Trichloroethene ND 1,1-Dichloroethene ND Trichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.5			
Chlorobenzene ND Trichlorofluoromethane ND 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Enzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Chloroethane ND Trichloroethene ND 1,1-Dichloroethene ND Trichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	10.			
Trichlorofluoromethane ND 1,2-Dichloroethane ND 1,1,1-Trichloroethane ND Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Winyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.5			
1,2-Dichloroethane ND 1,1,1-Trichloroethane ND Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Chloroethane ND Toluene ND Trichloroethene ND Trichloroethene ND Trichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	3.5			
1,1,1-Trichloroethane Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Enzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Chlorodethane ND Chloroethane ND 1,1-Dichloroethene ND 1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND ND ND Methyl tert butyl ether	ug/l	5.0			
Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Chlorodethane ND Chloroethane ND Tiplichloroethene ND Tiplichloroethene ND Trichloroethene ND Tiplichlorobenzene ND 1,2-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.5			
Bromodichloromethane ND trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Chlorodethane ND Chloroethane ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.0			
trans-1,3-Dichloropropene ND cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.0			
cis-1,3-Dichloropropene ND Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Winyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.5			
Bromoform ND 1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.0			
1,1,2,2-Tetrachloroethane ND Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.0			
Benzene ND Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/1	1.0			
Toluene ND Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/1	1.0			
Ethylbenzene ND Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.5			
Chloromethane ND Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/1	1.0			
Bromomethane ND Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/1 ug/1	10.			
Vinyl chloride ND Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	2.0			
Chloroethane ND 1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l ug/l	3.5			
1,1-Dichloroethene ND trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l ug/l				
trans-1,2-Dichloroethene ND Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/1 ug/1	2.0			
Trichloroethene ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/1 ug/l	1.5 1.5			
1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND					
1,3-Dichlorobenzene ND 1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l	1.0 10.			
1,4-Dichlorobenzene ND Methyl tert butyl ether ND	ug/l ug/l	10.			
Methyl tert butyl ether ND					
	ug/l ug/l	10. 10.			
varence No	ug/1 ug/l	1.0			
cis-1,2-Dichloroethene ND	ug/l	1.0			
·		10.			
	ug/l ug/l				
1,4-Dichlorobutane ND Iodomethane ND	ug/i ug/i	10. 10.			

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	17-MAY
1,2,3-Trichloropropane	ND	ug/l	10.			
Styrene .	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
Acetone	ND	ug/l	10.			
Carbon disulfide	ND	ug/l	10.			
2-Butanone	ND	ug/l	4.5			
Vinyl acetate	ND	ug/l	10.			
4-Methyl-2-pentanone	ND	ug/l	10.			
2-Hexanone	ND	ug/l	10.			
Ethyl methacrylate	ND	ug/l	10.			
Acrolein	ND	ug/l	25.			
Acrylonitrile	ND	ug/1	10.			
SURROGATE RECOVERY						
1,2-Dichloroethane-d4	91.0	ક				
Toluene-d8	89.0	¥				
4-Bromofluorobenzene	91.0	ક				
Hydrocarbon Scan GC 8100 Mc	odified			· 1	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/l	2.0			
Gasoline	ND	mg/l	2.0			
Fuel Oil #2/Diesel	ND	mg/l	2.0			
Fuel Oil #4	ND	mg/l	2.0			
Fuel Oil #6	ND	mg/l	2.0			
Motor Oil	ND	mg/l	2.0			
Kerosene	ND	mg/l	2.0			
Naphtha	ND	mg/l	2.0			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-06

FR-GW-RZ3-103

Date Received: 17-MAY-93

Sample Matrix:

LIQUID

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep:

Field Filtered

Number & Type of Containers: 1 Amber Glass, 2 Vial, 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Dissolved Metals				1.	3005/3050	· · · · · · · · · · · · · · · · · · ·
Antimony, Dissolved	ND	mg/l	0.05	1.	6010	17-May 18-May
Arsenic, Dissolved	ND	mg/l	0.005	1	7060	17-May 17-May
Barium, Dissolved	0.21	mg/l	0.01	1	6010	17-May 18-May
Beryllium, Dissolved	ND	mg/l	0.005	1	6010	17-May 18-May
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	17-May 18-May
Chromium, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May
Copper, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May
Lead, Dissolved	ND	mg/l	0.05	1	6010	17-May 18-May
Mercury, Dissolved	ND	mg/l	. 0.0005	1	7470/7471	17-May 17-May
Nickel, Dissolved	ND	mg/l	0.025	1	6010	17-May 18-May
Selenium, Dissolved	ND	mg/l	0.005	1	7740	17-May 17-May
Silver, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May
Thallium, Dissolved	ND	mg/l	0.005	1	7841	17-May 17-May
Zinc, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May

Laboratory Sample Number: L9303958-06

PARAMETER .	RESULT	UNITS	RDL	REF	METHOD		TES ANALYSIS
Volatile Organics by GC/MS				1	8260		18-MAY
Methylene chloride	ND	ug/l	500				
1,1-Dichloroethane	ND	ug/l	150				
Chloroform	ND	ug/l	150				
Carbon tetrachloride	ND .	ug/1	100				
1,2-Dichloropropane	ND	ug/l	350				
Dibromochloromethane	ND	ug/1	100				
1,1,2-Trichloroethane	ND	ug/l	150				
2-Chloroethylvinyl ether	ND	ug/l	1000				
Tetrachloroethene	ND	ug/l	150				
Chlorobenzene	ND	ug/l	350.				
Trichlorofluoromethane	ND	ug/l	500				
1,2-Dichloroethane	ND	ug/l	150				
1,1,1-Trichloroethane	ND	ug/l	100				
Bromodichloromethane	ND	ug/l	100				
trans-1,3-Dichloropropene	ND	ug/l	150				
cis-1,3-Dichloropropene	ND	ug/l	100		•		
Bromoform	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/1	100			•	
Benzene	1500	ug/1	100				
Toluene	1500	ug/l	150				
Ethylbenzene	2800	ug/l	100				
Chloromethane	ND	ug/1	1000				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	350				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	150				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/1	100				
1,2-Dichlorobenzene	ND	ug/l	1000				
1,3-Dichlorobenzene	ND	ug/l	1000				
1,4-Dichlorobenzene	ND	ug/1	1000				
Methyl tert butyl ether	ND	ug/l	1000				
Kylenes	19000	ug/l	1000			-	
cis-1,2-Dichloroethene	ND						
Dibromomethane	ND	ug/l	100				
1,4-Dichlorobutane		ug/l	1000				
Iodomethane	ND ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	1000				
Dichlorodifluoromethane	ND	ug/l	100				
Acetone	ND	ug/1	1000			-	
Carbon disulfide	ND	ug/1	1000				
disullide !-Butanone	ND	ug/1	1000				
inyl acetate	ND	ug/1	450				
-Methyl-2-pentanone	ND	ug/l	1000				
:-Methy1-2-pentanone :-Hexanone	ND	ug/1	1000				•
	ND	ug/l	1000				
thyl methacrylate	ND	ug/l	1000				-
crolein	ND	ug/l	2500				

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	S continued			. 1	8260	18-MAY
Acrylonitrile	ND	ug/l	1000			
SURROGATE RECOVERY						
1,2-Dichloroethane-d4	98.0	¥.			•	
Toluene-d8	98.0	ક				
4-Bromofluorobenzene	101.	ક				
Hydrocarbon Scan GC 8100 N	Modified			· · · ·	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/l	10.			
Gasoline	ND	mg/l	10.			
Fuel Oil #2/Diesel	240	mg/l	10.			
Fuel Oil #4	ND	mg/l	10.			
Fuel Oil #6	ND	mg/l	10.			
Motor Oil	ND	mg/l	10.			
Kerosene	ND	mg/l	10.			
Naphtha	ND	ma/1	10.			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-07

FR-GW-RZ6-104

Date Received: 17-MAY-93

Sample Matrix:

LIQUID

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 1 Amber Glass, 2 Vial, 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Dissolved Metals				1	3005/3050	
Antimony, Dissolved	ND	mg/l	0.05	1	6010	17-May 18-May
Arsenic, Dissolved	ND	mg/l	0.005	1	7060	17-May 17-May
Barium, Dissolved	0.06	mg/l	0.01	1	6010	17-May 18-May
Beryllium, Dissolved	ND	mg/l	0.005	1	6010	17-May 18-May
Cadmium, Dissolved	NTD	mg/l	0.005	1	6010	17-May 18-May
Chromium, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May
Copper, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May
Lead, Dissolved	ND	mg/l	0.05	1	6010	17-May 18-May
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	17-May 17-May
Nickel, Dissolved	0.040	mg/l	0.025	1	6010	17-May 18-May
Selenium, Dissolved	ND	mg/l	0.005	1	7740	17-May 17-May
Silver, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May
Thallium, Dissolved	ND	mg/l	0.005	ı	7841	17-May 17-May
Zinc, Dissolved	ND	mg/l	0.01	1	6010	17-May 18-May

Laboratory Sample Number: L9303958-07

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES
					PREP ANALYSIS
Volatile Organics by GC/MS			•	1 8260	18-MAY
Methylene chloride	ND	ug/l	5.0		
1,1-Dichloroethane	ИD	ug/l	1.5		
Chloroform	ND	ug/l	1.5		
Carbon tetrachloride	ND	ug/l	1.0		
1,2-Dichloropropane	ND	ug/l	3.5		
Dibromochloromethane	ND	ug/l	1.0		
1,1,2-Trichloroethane	ND	ug/l	1.5		
2-Chloroethylvinyl ether	ND	ug/l	10.		
Tetrachloroethene	ND	ug/l	1.5		
Chlorobenzene	ND	ug/l	3.5		
Trichlorofluoromethane	ND	ug/l	5.0	- ,	
1,2-Dichloroethane	ND	ug/l	1.5	•	
1,1,1-Trichloroethane	ND	ug/l	1.0		
Bromodichloromethane	ND	ug/l	1.0		•
trans-1,3-Dichloropropene	ND	ug/1	1.5		
cis-1,3-Dichloropropene	ND	ug/1	1.0		
Bromoform	ND	ug/l	1.0		
1,1,2,2-Tetrachloroethane	ND	ug/1	1.0		
Benzene	ND	ug/l	1.0		
Toluene	ND	ug/l	1.5		
Ethylbenzene	ND	ug/l	1.0		
Chloromethane	ND	ug/l	10.		
Bromomethane	ND	ug/l	2.0		
Vinyl chloride	ND	ug/l	3.5		
Chloroethane	ND	ug/l	2.0		•
1,1-Dichloroethene	ND	ug/l	1.5		
trans-1,2-Dichloroethene	ND	ug/l			
Trichloroethene			1.5		
1,2-Dichlorobenzene	ND	ug/1	1.0		
1,3-Dichlorobenzene	ND	ug/l	10.		
	ND	ug/l	10.		
1,4-Dichlorobenzene	ND	ug/l	10.		
Methyl tert butyl ether	ND	ug/l	10.		
Kylenes	1.8	ug/l	1.0		
cis-1,2-Dichloroethene	ND	ug/l	1.0		
Dibromomethane	ND	ug/l	10.		
1,4-Dichlorobutane	MD	ug/l	10.		
Iodomethane	ND	. ug/l	10.		
1,2,3-Trichloropropane Styrene	ND	ug/l	10.		
Dichlorodifluoromethane	ND	ug/l	1.0		
Acetone	ND	ug/l	10.		
Carbon disulfide	ND	ug/l	10.		
R-Butanone	ND ND	ug/l	10.		
	ND	ug/l	4.5		
inyl acetate	ND	ug/1	10.		
-Methyl-2-pentanone	ND	ug/1	10.		
-Hexanone	ND	ug/l	10.		•
thyl methacrylate	ND	ug/l	10.		
crolein	ND	ug/l	25.		

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued	, i.e.		1	8260	18-MAY
Acrylonitrile	ND	ug/l	10.			·
SURROGATE RECOVERY			٠		-	
1,2-Dichloroethane-d4 Toluene-d8	95.0 95.0	8 8				
4-Bromofluorobenzene	101.	*				
Hydrocarbon Scan GC 8100 Mc	odified		the bare of	1	8100M	17-May 18-MAY
Mineral Spirits	ND	mg/l	1.0			
Gasoline	ND	mg/l	1.0			
Fuel Oil #2/Diesel	ND	mg/l	1.0			
Fuel Oil #4	ND	mg/l	1.0			
Fuel Oil #6	ND	mg/l	1.0			
Motor Oil	ND	mg/l	1.0			
Kerosene	ND	mg/l	1.0		•	
Naphtha	ND	mg/l	1.0			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-08

Date Received: 17-MAY-93

Sample Matrix:

FR-GW-RZ7-105 LIQUID

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep: None

Number & Type of Containers: 1 Amber Glass, 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS				1 "	8260	17-MAY
Methylene chloride	ND	ug/l	2500			
1,1-Dichloroethane	ND	ug/l	750			
Chloroform	ND	ug/l	750			
Carbon tetrachloride	ND	ug/l	500			
1,2-Dichloropropane	ND	ug/l	1800			
Dibromochloromethane	ND	ug/l	500			
1,1,2-Trichloroethane	ND	ug/l	750			
2-Chloroethylvinyl ether	ND	ug/l	5000			
Tetrachloroethene	ND	ug/l	750			
Chlorobenzene	ND	ug/l	1800			
Trichlorofluoromethane	ND	ug/l	2500			
1,2-Dichloroethane	ND	ug/l	750			
1,1,1-Trichloroethane	ND	ug/l	500			
Bromodichloromethane	ND	ug/l	500			
trans-1,3-Dichloropropene	ND	ug/l	750			
cis-1,3-Dichloropropene	ND	ug/l	500			
Bromoform	ND	ug/l	500			
1,1,2,2-Tetrachloroethane	ND	ug/l	500			
Benzene	640	ug/l	500			
Toluene	4900	ug/l	750			
Ethylbenzene	4500	ug/l	500			
Chloromethane	ND	ug/l	5000			
Bromomethane	ND	ug/l	1000			
Vinyl chloride	ND	ug/l	1800			
Chloroethane	ND	ug/l	1000			
l,1-Dichloroethene	ND	ug/l	750			
rans-1,2-Dichloroethene	ND	ug/l	750			
Prichloroethene	ND	ug/l	500			
1,2-Dichlorobenzene	ND	ug/l	5000			
1,3-Dichlorobenzene	ND	ug/l	5000			•
1,4-Dichlorobenzene	ND	ug/l	5000			
Methyl tert butyl ether	ND	ug/l	5000			
(ylenes	23000	ug/l	500			
cis-1,2-Dichloroethene	ND	ug/l	500			
Dibromomethane	ND	ug/l	5000			
,4-Dichlorobutane	ND.	ug/l	5000			
odomethane	ND	ug/l	5000			•

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	17-MAY
1,2,3-Trichloropropane	ND	ug/l	5000			
Styrene	ND	ug/l	500			
Dichlorodifluoromethane	ND	ug/l	5000			
Acetone	ND	ug/l	5000			,
Carbon disulfide	ND	ug/l	5000			
2-Butanone	ND	ug/l	2300			
Vinyl acetate	ND	ug/l	5000			
4-Methyl-2-pentanone	ND	ug/l	5000			
2-Hexanone	ND	ug/1	5000			
Ethyl methacrylate	ND	ug/l	5000			
Acrolein	ND	ug/l	13000			
Acrylonitrile	ND	ug/l	5000			
SURROGATE RECOVERY		•				
1,2-Dichloroethane-d4	103.	*				
Toluene-d8	91.0	*				
4-Bromofluorobenzene	101.	*		•		
Hydrocarbon Scan GC 8100 Mc	dified	effer vertiger		1.	8100M	17-May 18-MAY
Mineral Spirits	220	mg/l	5.0			
Gasoline	ND	mg/l	5.0			
Fuel Oil #2/Diesel	ND	mg/l	5.0			
Fuel Oil #4	ND	mg/l	5.0			
Fuel Oil #6	ND	mg/l	5.0			
Motor Oil	ND	mg/l	5.0			
Kerosene	ND	mg/l	5.0			
Unknown Hydrocarbon	84.	mg/l	5.0			
Naphtha	ND	mg/l	5.0			

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-09

FR-GW-RZ71-106

Date Received: 17-MAY-93

Sample Matrix:

LIQUID

Date Reported: 18-MAY-93

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DA	TES
						PREP	ANALYSIS
Volatile Organics by GC/MS				1	8260		18-MAY
Methylene chloride	ND	ug/l	2500				
1,1-Dichloroethane	ND	ug/l	750				
Chloroform	ND	ug/l	750				
Carbon tetrachloride	ND	ug/1	500				
1,2-Dichloropropane	ND	ug/l	1800				
Dibromochloromethane	· ND	ug/l	500				
1,1,2-Trichloroethane	ND	ug/l	750				
2-Chloroethylvinyl ether	ND	ug/l	5000				
Tetrachloroethene	ND	ug/l	750				
Chlorobenzene	ND	ug/1	1800				
Frichlorofluoromethane	ND	ug/l	2500				
1,2-Dichloroethane	ND	ug/l	750				
1,1,1-Trichloroethane	ND	ug/1	500				-
Bromodichloromethane	ND	ug/l	50 0				
trans-1,3-Dichloropropene	ND	ug/l	750				
cis-1,3-Dichloropropene	ND	ug/l	500				
Bromoform	ND	ug/l	500				
1,1,2,2-Tetrachloroethane	ND	ug/1	500				
Benzene	790	ug/l	500				
Coluene	7700	ug/l	750				
Sthylbenzene	8200	ug/l	500		•		
Chloromethane	ND	ug/l	500 <u>.</u> 5000				
Bromomethane	ND	ug/l	1000				
Vinyl chloride	ND	ug/l ug/l	1800				
Chloroethane	ND	ug/l ug/l					
,1-Dichloroethene	ND	ug/l ug/l	1000 750				
rans-1,2-Dichloroethene	ND	ug/1 ug/l	750 750			-	
richloroethene	ND	ug/1	500				
,2-Dichlorobenzene	ND	ug/l	5000				
.3-Dichlorobenzene	ND	ug/1	5000				
.,4-Dichlorobenzene	ND	ug/l	5000				
ethyl tert butyl ether	ND	ug/l	5000				
ylenes	41000	ug/l	500				
is-1,2-Dichloroethene	ND	ug/l	500				
ibromomethane	ND	ug/l	5000				
,4-Dichlorobutane	ND	ug/l	5000				
odomethane	ND	ug/l ug/l	5000				

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	18-MAY
1,2,3-Trichloropropane	ND	ug/l	5000			
Styrene	ND	ug/1	500			
Dichlorodifluoromethane	ND	ug/l	5000			
Acetone	ND	ug/l	5000			
Carbon disulfide	ND	ug/l	5000			
2-Butanone	ND	ug/l	2300			
Vinyl acetate	ND	ug/1	5000			
4-Methyl-2-pentanone	ND	ug/l	5000			
2-Hexanone	ND	ug/l	5000			
Ethyl methacrylate	ND	ug/l	5000			
Acrolein	ND	ug/l	13000			
Acrylonitrile	ND	ug/l	5000			
SURROGATE RECOVERY						
1,2-Dichloroethane-d4	92.0	¥				
Toluene-d8	101.	. *				
4-Bromofluorobenzene	98.0	¥	•			•

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9303958-10

Date Received: 17-MAY-93

TRIP BLANK Sample Matrix:

WATER

Date Reported: 18-MAY-93

Condition of Sample:

Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial

Volatile Organics by GC/MS Methylene chloride 1,1-Dichloroethane		<u>. </u>						
Methylene chloride		-				 .		
			hard L	. 1	L	8260		18-MAY
1 1-Dichloroothano	ND	ug/l	5.0					
i, i - Micuroroe cuane	ND	ug/l	1.5					
Chloroform	ND	ug/1	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/1	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Prichlorofluoromethane	ND ·	ug/l	5.0					
1,2-Dichloroethane	ND	ug/1	1.5					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND.	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
Bromoform	ND	ug/1	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/1	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	3.5					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
crans-1,2-Dichloroethene	ND	ug/l	1.5					
Frichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND.	ug/1 ug/1	10.					
1,2-Dichlorobenzene	ND	ug/l	10.					
1,4-Dichlorobenzene	ND	ug/l	10.					
Methyl tert butyl ether	ND	ug/l	10.					
(vlenes	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.				~-	

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC/MS	continued			1	8260	18-MAY
1,2,3-Trichloropropane	ND	ug/l	10.			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
Acetone	ND	ug/l	10.			
Carbon disulfide	ND	ug/l	10.			
2-Butanone	ND	ug/l	4.5			•
Vinyl acetate	ND	ug/l	10.			
4-Methyl-2-pentanone	ND	ug/l	10.			
2-Hexanone	ND	ug/l	10.			
Ethyl methacrylate	ND	ug/l	10.			
Acrolein	ND	ug/1	25.		•	
Acrylonitrile	ND	ug/l	10.			
SURROGATE RECOVERY						
1,2-Dichloroethane-d4	95.0	ş				
Toluene-d8	98.0	¥			•	
4-Bromofluorobenzene	96.0	*				

ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE DUPLICATE ANALYSIS

Laboratory Job Number: L9303958

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Parameter	Value 1	Value 2	RPD	Units
Dissolved Metals	DUPLICAT	E for sample	e(s) 06-07	
Mercury, Dissolved	ND	ND	NC	mg/l

CHAIN OF C CORD

Rizzo Associates, Inc. 235 West Central Street Natick, MA 01760 (508) 651-3401 (508) 651-1189 (FAX)

Rizzo Project Number: 28/13-01
Rizzo Project Name: Fleet / Roches | Samplers (signatures)

RUSHII

Lab: Alphy
Lab ID #:

Send report to: KEN TAESER

Turnaround Time: Z day Treside:

	-	Trp bonk	7 + BZ71-104	RZ7-105	RZ6-107	RZ3-103	R22-102	FR-GW-821-101	FR-55-91ED-107	FR.55-RZ5-8F	1-R-55- RZ4-10 FT	 	Rizzo Sample No. 1745
												Depth	Sample
												Sample Location	Comple Complete
			-					,	5/14	=	15/13	Date	Sample
						-						Time	Sample Collected
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Relinguished by:

Received by: FED EX

Time: # 4:00