SEAR·BROWN

ARCHITECTURE
ENGINEERING
PLANNING
CONSTRUCTION

85 Metro Park
Rochester, NY 14623
585.475.1440 phone
585.272.1814 fax
www.searbrown.com

August 22, 2002

Mr. Mark Meyer
Meyers Campers
3338 State Road
Caledonia, New York 14423

RE: Phase II Environmental Site Assessment **18119.01**
Proposed Meyers Campers Sales and Service Facility
Village of Churchville, New York

Dear Mr. Meyer:

Sear-Brown is pleased to submit this Phase II Environmental Site Assessment (ESA) report for the above referenced property (subject property).

Project Background

In July 2002, Sear-Brown completed a Phase I ESA of three (3) parcels of land, totaling 34.66± acres, located on the northwestern corner of the intersection of South Main Street (NYS Route 36) and Sanford Road North in the Village of Churchville, Monroe County, New York. The Phase I ESA revealed no recognized environmental conditions associated with the subject property except for the following:

- Sear-Brown reviewed the Village of Churchville's files associated with the Gabriele Parcel. The Village's files contained several sets of building plans regarding the original building on the Gabriele Parcel, as well as subsequent additions to the building. A Utility and Landscape Plan prepared by MRB Engineering, Architecture, and Surveying P.C. and dated August 5, 1986 indicated that one (1) 500-gallon gasoline underground storage tank (UST) and one (1) 500-gallon waste oil UST were proposed to be installed near the northwestern corner of the of the original main building (minus subsequent additions). According to Mr. Matt Kells, of the Rochester Auto Collection who has been associated with the subject property since 1998, to the best of his knowledge, no USTs have been maintained on the Gabriele Parcel. No additional documentation regarding the historic or current presence of USTs on the subject property was obtained by, or made available to, Sear-Brown during the Phase I ESA.

- Staining of the asphalt parking lot and the exterior surface of the west side of the main building was observed. This area of staining was apparently associated with a former storage shed that housed a waste oil above ground storage tank (AST). All that remained of this former storage shed at the time of the Sear-Brown property visit was an apparent concrete foundation. Circular and rectangular depressions in the asphalt were also observed along the western side of the main building, in the same general area where used solvent drum storage had been noted in a previous Phase I ESA.

- Village of Churchville file information associated with the Gabriele Parcel indicated that a gasoline AST on the Gabriele Parcel might have been in violation of the New York State Building and Fire Prevention Code in 1994. A Boundary and Topographic Survey Map, produced by Sear-Brown and dated September 25, 1998, indicated that a "metal frame with gas tank" was located outside adjacent to the western side of the main building.

- Solid waste disposal, including construction and demolition (C&D) debris and a 275-gallon AST, was observed behind the small, wood-frame storage building on the northwestern portion of the Gabriele Parcel. The AST appeared to be empty and no spills, stains, or odors were observed in its vicinity.

- The Gabriele Parcel, 111 South Main Street, appears on the United States Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) database (EPA Facility I.D. No. NYD986992527) as Churchville Ford, Inc. The RCRA database indicates that the Churchville Ford, Inc. facility was a conditionally exempt (small quantity) generator of hazardous waste. The presence of this former automobile dealership on this listing only identifies, for regulatory purposes, that the facility generates or generated hazardous waste. It does not infer that contamination problems do or do not exist at this facility.

Based upon the findings of the Phase I ESA, Sear-Brown made the following recommendations:

- Based upon the Village of Churchville's file information suggesting the potential presence of waste oil and gasoline USTs near the northwestern corner of the of the original main building, it was recommended that a subsurface investigation be performed in this area of the subject property.

- It was recommended that the current owners of the Gabriele Parcel make arrangements for the contents of the oil/water separator to be removed and properly disposed. In addition, the oil/water separator should be inspected for evidence of defects that may have lead to a sub-surface release.

- In order to determine if historic outdoor petroleum and chemical storage activities adjacent to the western side of the main building have impacted the subsurface, it was recommended that a subsurface investigation be performed in this area. In addition, if staining of the asphalt surface exists in the former air compressor storage shed, as reported in Entrix's Preliminary ESA report, it was recommended that a subsurface investigation be performed in this area.

- It was recommended that the solid waste, including the 275-gallon AST, observed behind the small, wood-frame storage building on the northwestern portion of the Gabriele Parcel be removed and properly disposed off-site. If impacts (spills, odors, staining, etc.) were observed beneath the 275-gallon AST following removal, a subsurface investigation of this area was also recommended.

- Given the current lack of operations on the subject property that would warrant continued registration of the Gabriele Parcel with the EPA as a RCRA small quantity generator, it was recommended that the EPA be notified regarding this change in on-site activities.

Scope of Work

Based upon the findings and recommendations of the July 2002 Phase I ESA, Sear-Brown subsequently conducted the Phase II ESA on the subject property during August 2002. The following sections of this report outline the scope of work completed and the findings of the Phase II ESA.

Geophysical Survey

A geophysical survey was recommended in the June 21, 2002 proposal to assist in the location of potential underground storage tanks as depicted on an August 5, 1986 Utility and Landscape Plan. The survey was completed on July 30, 2002 and focused on a 40 x 170 ft., asphalt-paved area on the north side of the building.

A reference grid was installed over the survey area to facilitate data acquisition along lines spaced 3 feet apart. The grid was oriented parallel to the north side of the building and grid north was taken as the direction perpendicular to the north wall.

A GEONICS EM61 High Sensitivity Metal Detector and solid state data logger were used to survey the shallow subsurface (0 to 11 feet) environment for the presence of metallic or metal-containing objects. The EM61 is a portable time-domain electromagnetic (EM) unit. The device detects both ferrous and nonferrous metals. The EM61 is sensitive enough to detect a single 55-gallon drum at a depth of over 10 feet, yet is relatively insensitive to nearby above-grade sources of interference such as fences, buildings and power lines. It can be pulled around as a trailer with an odometer mounted on the axle to trigger the data logger or it can be carried by the operator via a shoulder harness.

The EM61 generates a primary EM field at a rate of 150 pulses per second. After each transmitted pulse, the transmitter turns off and the induced EM field is allowed to decay. The receivers are then turned on, measuring the strength of this decayed secondary EM field between each pulse. Because

EM fields decay much more rapidly in normal soils than in metals, the EM61 instrument is relatively insensitive to terrain conductivities and is highly sensitive to metals.

The unit is configured to digitally collect a data point at 0.62-foot intervals along lines spaced 3 feet apart. Data recorded during the survey were stored on a digital data logger and archived to a laptop computer.

Data were subsequently processed using GEOSOFT software and plotted as profile lines, gridded, filtered and color-contoured (Figure 1). The color bar to the right of the map indicates the colors associated with the measured values. Areas suspected to be free of buried metals are shown as blue shades. All areas exhibiting a response greater than background (0 to 15 mVolts) likely contain buried metals. These areas are depicted in shades of light green through purple in Figure 1. The full geophysical report is provided in Appendix A.

Survey Findings

There are no anomalies in the geophysical data that are interpreted to represent either the gasoline UST or the waste oil UST depicted on the August 5, 1986 Utility and Landscape Plan. A north-south-trending linear anomaly observed in the western portion of the survey area is likely associated with a storm sewer line that is connected to the catch basin as depicted on Figure 1. Surface related interference depicted along the eastern end of the building wall was caused by a transformer (xfmr).

Soil Boring/Well Installation Program

Sear-Brown conducted a two-day soil boring and groundwater monitoring well installation program to evaluate potential subsurface impacts in the vicinity of the suspected UST area, the stained asphalt area on the west side of the building exterior, the former and current locations of the gasoline AST, in the service area of the main building near the former locations of two parts washers, the oil-water separator and the degreasing solvent and current waste coolant drum locations.

The two-day Earthprobe® program involved the installation of 14 small diameter soil borings and four temporary groundwater monitoring wells. Boring and well locations are shown in Figure 2. Soil boring logs are provided in Appendix B.

Four borings were installed inside the building in the vicinity of former parts washer locations, the oil water separator and a degreasing solvent storage area. Interior borings were drilled to a minimum depth of approximately 4 ft. bgs. Boring GP-6 was drilled adjacent to the oil-water separator and was extended to 8 feet deep due to the apparent presence of petroleum impacts (dark staining, odor). GP-8 was drilled at a former parts washer location and was also advanced to 8 feet because of an apparent solvent odor in the first 4 foot sample sleeve.

The remaining 10 borings were installed outside the building. With the exception of GP-11, GP-13 and GP-14, exterior borings were drilled to a depth of 12 feet. GP-11 was installed in the vicinity of the empty gasoline AST and was terminated at 8 feet below ground surface, because no readily apparent impacts were observed. GP-13 was installed on the south side of the building downgradient of the waste oil AST, the solvent storage area, and the used antifreeze storage area, and was terminated at 8 feet. This boring was completed with a shallow well screened across the 2-6' depth range where petroleum impacts were observed. GP-14 was installed adjacent to the compressor shed and was terminated at a 4 foot depth, because no readily apparent impacts were observed.

All borings were drilled with a direct push, Earthprobe® rig and sampling tools. The Earthprobe® equipment was decontaminated prior to use and between borehole locations. The decontamination process involved an Alconox and potable water wash followed by a potable water rinse.

Continuous samples were collected at each of the soil boring locations. Each soil sample was screened with a calibrated photoionization detector (PID) for the presence of volatile organic vapors. Specifically, portions of the soil sample were collected and placed in individual sealed containers. The volatile organic vapors that accumulated within the headspace of the containers were screened for volatile organic vapors using the PID. A summary of PID readings is provided in Table 1. PID readings and/or odors indicative of impacts (noted on soil boring logs in Appendix B) were recorded in borings GP-1, GP-3, GP-6 and GP-10. Lower PID readings and/or odors potentially suggestive of impacts were noted in borings GP-8, GP-9 and GP-13.

At boring locations where no readily apparent evidence of potential impacts was observed, cuttings were returned to the boreholes at the time of their completion. Asphalt was repaired with tamped, cold patch asphalt. Concrete was also patched, but was not sealed. At boring locations where evidence of potential impacts was observed, the drill cuttings and decontamination water were contained and stored on-site in secured 55-gallon drums and the holes were either completed with a groundwater monitoring well or grouted to ground surface.

Based upon field observations (i.e., high PID headspace readings, staining, odors), seven (7) soil samples were submitted to a New York State Department of Health (NYSDOH) certified laboratory for analytical testing. With the exception of the samples from borings GP-8 and GP-9 that were installed at the former parts washer locations, soil samples were analyzed for Target Compound List (TCL) and Spill Technology and Remediation Series (STARS), volatile organic compounds (VOCs) using EPA Method 8260, STARS semi-volatile organic base-neutral compounds (SVBNs) plus Tentatively Identifiable Compounds (TICs) using EPA method 8270, and glycols using EPA Method 8015. The samples from borings GP-8 and GP-9 were analyzed for TCL and STARS VOCs only. A summary of soil samples submitted for analytical testing is provided in Table 2.

Because groundwater was encountered within 5 feet of ground surface and evidence of impacts was observed in some soil borings, Sear-Brown selected four (4) specific soil boring locations for the installation of small diameter, temporary, groundwater monitoring wells. The borings that were completed with temporary monitoring wells are GP-1 (former waste oil AST area), GP-3 (used solvent storage area), GP-6 (oil-water separator) and GP-13 (downgradient of used antifreeze storage area, waste solvent storage area, and former waste oil AST). A summary of well completion details is provided in Table 3. The groundwater monitoring wells were constructed of 1-inch diameter, schedule-40 PVC with 0.010-inch slot well screens.

Following installation of the monitoring wells, a limited survey was performed to provide location and elevation data for each well relative to an assumed datum. The purpose of the survey was to attempt to determine the groundwater flow directions beneath the subject property.

Water level data from measurements made on August 12, 2002 and August 15, 2002 are presented in Table 4. With the exception of the data from well MW-13, the measurements from both dates suggest that groundwater flows roughly to the south, a direction that is consistent with site topography. The data from MW-13 suggest an anomalously high watertable elevation that would result in groundwater flowing back toward the building from the MW-13 location. Our best professional judgement is that the water level in MW-13 reflects the inflow of perched stormwater seepage from the base of the parking lot pavement. This perched stormwater is likely to produce the higher static water level and, thus, the water level measurements from this well do not reflect the true water table elevation. Our best estimate is that groundwater flows generally to the south.

At the time that water level measurements were being recorded, checks were also made for the presence of free-floating petroleum product using an oil-water interface probe. The presence of approximately 0.3 - 0.5 feet of petroleum (apparently waste motor oil) was present in well MW-1. This well is located in the former waste oil AST area. It should be noted, however, that given the narrow one inch diameter of the well, "wicking" may be occurring resulting in an exaggeration of the thickness of the product layer. Conversely, heavier petroleum products often take longer periods of time to accumulate in wells due to their viscosity.

Prior to the collection of groundwater samples, the monitoring wells were developed utilizing a peristaltic Geopump. The wells were developed in an effort to cleanse them of suspended sediments so that turbidities are reduced to the maximum extent practicable. General water quality field parameters (i.e. pH, specific conductance and temperature) were monitored during development of all wells except MW-1 that contained the floating petroleum product. The field parameter data are summarized in Table 5. The wells were both developed and sampled on August 12, 2002.

Groundwater samples were analyzed for TCL/STARS VOCs using EPA Method 8260, SVBNs plus TICs using EPA Method 8270, and glycols using EPA Method 8015. A summary of the groundwater samples submitted for analytical testing is provided in Table 6.

Because evidence of potential impacts was observed at each of the monitoring well locations, purge water was contained and stored on-site in secured 55-gallon drums. Due to the observation of impacts in some borings and wells, these drums will likely require special handling and disposal procedures. The costs to drum, sample, analyze, transport and dispose of these materials were not included as part of our proposed services but will be performed as additional services if requested.

Status of drums

Soil and Groundwater Findings

The analytical results for soil and groundwater samples are presented in Tables 7 - 9 and discussed below. The most significant data have been used to generate contour plots of contaminant plumes (Figures 3-7). The laboratory reports for the soil and groundwater samples are provided in Appendix C.

Soil Analytical Results

VOC and SVBN analytical results for soil samples are summarized in Tables 7 and 8. Volatile organic compounds related to petroleum products and degreasing solvents were present in samples from borings GP-1, GP-3, GP-6, GP-10 and GP-13. The concentrations of one or more compounds reported by the laboratory exceed the respective NYSDEC Allowable Soil Concentrations in all samples except for the sample from GP-9. Total concentrations of detectable chlorinated VOCs related to solvents are contoured in Figure 3. Total concentrations of petroleum-related VOCs are contoured in Figure 4. These contour plots, as well as Figures 5 and 6 presented later in this report, should be considered tentative because they are based on limited data sets. Specifically, the contaminants found at MW-6 may not be continuous with those found near the southwest corner of the building (GP-1, GP-3, GP-10 and GP-13). Nonetheless, both contour plots suggest similar plume geometrics for the solvent and petroleum-derived VOCs. The highest concentrations are located in borings near the southwest corner of the building, but VOCs were also found to reside beneath the floor of the building in GP-6. These findings indicate that there are residual impacts to on-site soils from the former waste oil AST, the former solvent storage area, and the oil-water separator that currently remains in-place in the service area. Additional investigation is necessary to define the vertical and lateral extent of the VOC impacts documented by existing soil analytical results.

One or more STARS-list SVBNs were detected in the soil samples from borings GP-1, GP-10 and GP-13 at concentrations that exceed allowable soil concentrations. GP-1 was installed in the former waste oil AST area. GP-10 and GP-13 are located downgradient of the former waste oil AST. Thus, the SVBNs appear to be related to a petroleum plume emanating from that single source location.

Additional investigation is necessary to define the vertical and lateral extent of the SVBN impacts documented by existing soil analytical results.

Petroleum-related TICs were present in all soil samples analyzed except the sample from GP-13. In the soil sample from boring GP-1, the sum total concentration of the TICs is 29,740 micrograms per kilogram (ug/kg) or parts per billion (ppb). This finding signifies a probable source area beneath the former waste oil AST. The TICs found in the soil sample from GP-6 also indicate a secondary source beneath the floor of the service area.

No glycols were reported above detection limits in any of the soil samples analyzed. Consequently, there are no impacts related to spillage of waste coolant documented by the soil sampling program.

Groundwater Analytical Results

Analytical results for VOCs in groundwater samples are summarized in Table 9. One or more volatile organic compounds related to petroleum products and/or degreasing solvents were reported at concentrations that exceed the respective NYSDEC Class GA groundwater standards in all four wells installed and sampled. Total chlorinated VOCs in groundwater are contoured in Figure 5. Total petroleum-related VOCs are contoured in Figure 6. The highest concentrations of chlorinated VOCs were detected in well MW-3 that is located in the former solvent storage area. The highest levels of petroleum-related VOCs were in well MW-1 that also contained the 0.3 – 0.5 foot thick layer of free petroleum product on the water table. Concentrations of one solvent-related VOC and one petroleum-related VOC were present at concentrations that slightly exceeded standards in MW-13 (presumed to be downgradient of the waste oil AST and solvent storage area). Three VOCs related to solvents were present at levels that exceeded standards in MW-6 that is installed adjacent to the oil-water separator. These findings confirm that there are residual impacts to on-site groundwater from the former waste oil AST, the former solvent storage area, and the oil-water separator that remains in-place in the service area. Additional investigation is necessary to define the vertical and lateral extent of the VOC impacts to groundwater documented by existing analytical results.

One STARS-list SVBN, Naphthalene, was detected in the sample from well MW-1. Five petroleum-related TICs were also present at low concentrations. MW-1 was installed in the former waste oil AST area. Relative to the VOCs, the SVBN results do not reflect significant additional impacts to groundwater that will require further characterization.

No glycols were reported above detection limits in any of the groundwater samples analyzed. Consequently, there are no impacts related to spillage of waste coolant documented by the groundwater sampling program.

Conclusions and Recommendations

Sear-Brown completed a Phase II ESA on the subject property during August 2002. The Phase II ESA included a geophysical survey of suspected UST locations and a soil and groundwater sampling program in areas of concern identified by Sear-Brown's July 2002 Phase I Environmental Site Assessment (ESA). These areas of concern include the suspected UST area, the stained asphalt area on the west side of the building exterior, the former and current locations of the gasoline AST, the former locations of two parts washers in the service area of the main building, the oil-water separator and the degreasing solvent and current waste coolant drum locations.

The findings of the Phase II ESA are summarized below:

- There are no anomalies in the geophysical data that are interpreted to represent USTs.
- Volatile organic compounds related to petroleum products and degreasing solvents were reported to be present in soil samples from borings GP-1, GP-3, GP-6, GP-10 and GP-13 at concentrations that exceed the respective NYSDEC Allowable Soil Concentrations. Additional investigation is necessary to define the vertical and lateral extent of the VOC impacts to soil documented by existing analytical results.
- One or more STARS-list SVOCs were detected in the soil samples from borings GP-1, GP-10 and GP-13 at concentrations that exceed allowable soil concentrations. Additional investigation is necessary to define the vertical and lateral extent of the SVBN impacts to soil documented by existing analytical results.
- At the time that water level measurements were being recorded approximately 0.3 – 0.5 feet of petroleum (apparently waste motor oil) was present in well GP-1. This well is located in the former waste oil AST area.
- One or more volatile organic compounds related to petroleum products and/or degreasing solvents were reported in all four wells installed and sampled (MW-1, MW-3, MW-6 and MW-13) at concentrations that exceed their respective NYSDEC Class GA groundwater standards. Additional investigation is necessary to define the vertical and lateral extent of the VOC impacts to groundwater documented by existing groundwater analytical results.

SEAR·BROWN

Based upon the above findings, Sear-Brown's opinion is that the property owner has a legal obligation to report the findings to the NYSDEC. Following consultation with the NYSDEC, additional investigation will be needed to define the vertical and lateral extent of impacts. Sear-Brown recommends the following scope of supplemental Phase II investigation:

1. Complete the four existing temporary monitoring wells as permanent installations in order to provide for higher quality control on water level measurements and future analytical data;

2. Complete the permanent well at the MW-1 location using a larger-diameter well so that it can be used to more accurately evaluate the thickness of the product layer, and if needed it can also be used as a petroleum product recovery well;

3. Install additional soil borings and permanent groundwater monitoring wells in order to provide data on the geometry of the northern, eastern and western VOC plume boundaries emanating from the MW-1/MW-3 area;

4. Install additional borings monitoring wells in a ring around GP-6/MW-6 to further define the extent of impacts from the oil-water separator.

Prior to commencement of the Supplemental Phase II Investigation, it is recommended that the contents of the oil water separator and the associated trench drain be removed, characterized and properly disposed off-site.

We appreciate the opportunity to have performed this Phase II Investigation. Should you have any questions or require further information, I would welcome your calls at 475-1440.

Very truly yours,

Michael P. Storonsky
Senior Associate

cc: Wayne DeHond, Esq.

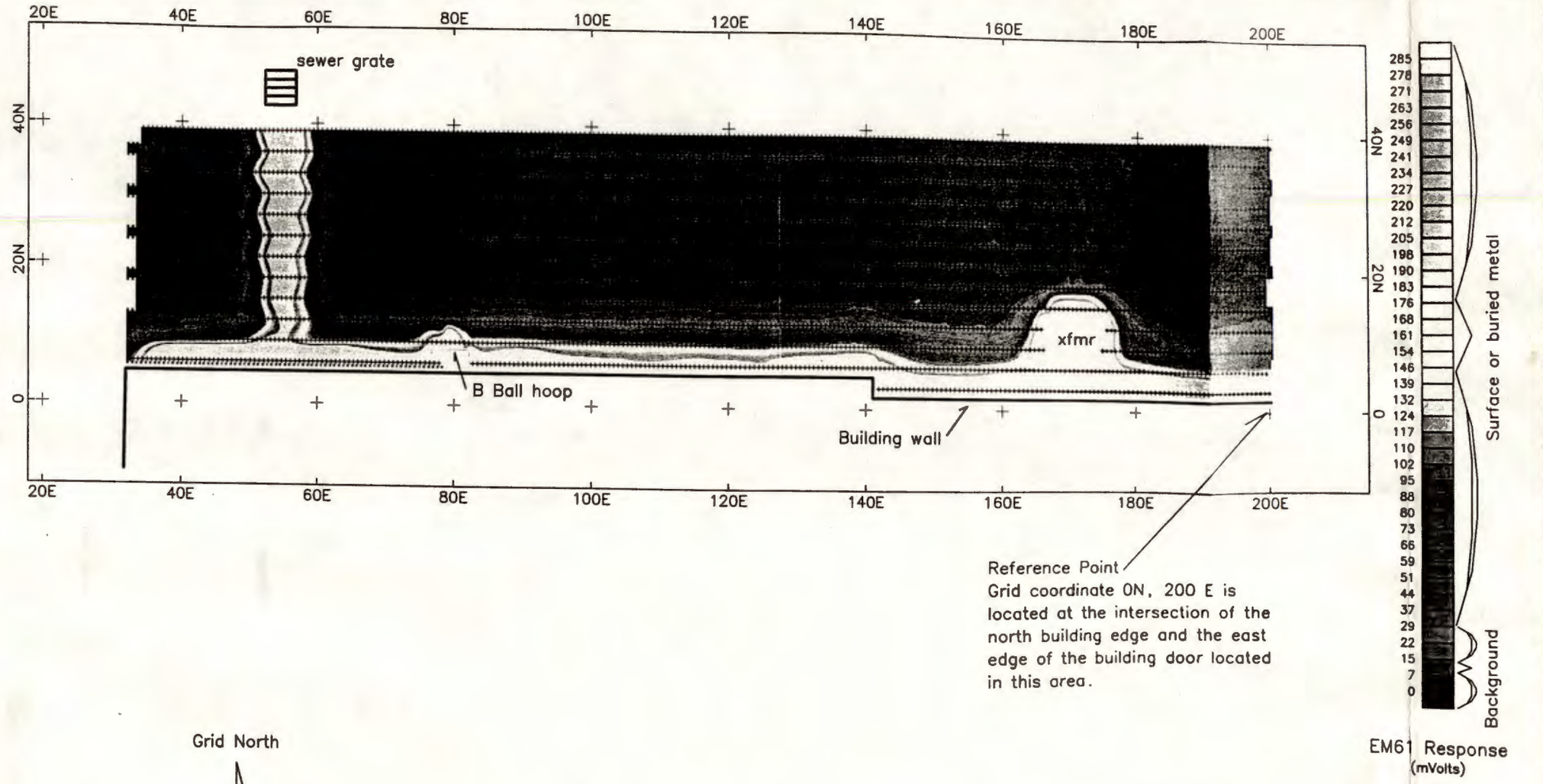
Attachments

Figures

Figure 1: Geophysical Survey Results
Figure 2: Site Plan

Tables

Appendices



Grid North

Scale 1:180

10 0 10 20 30

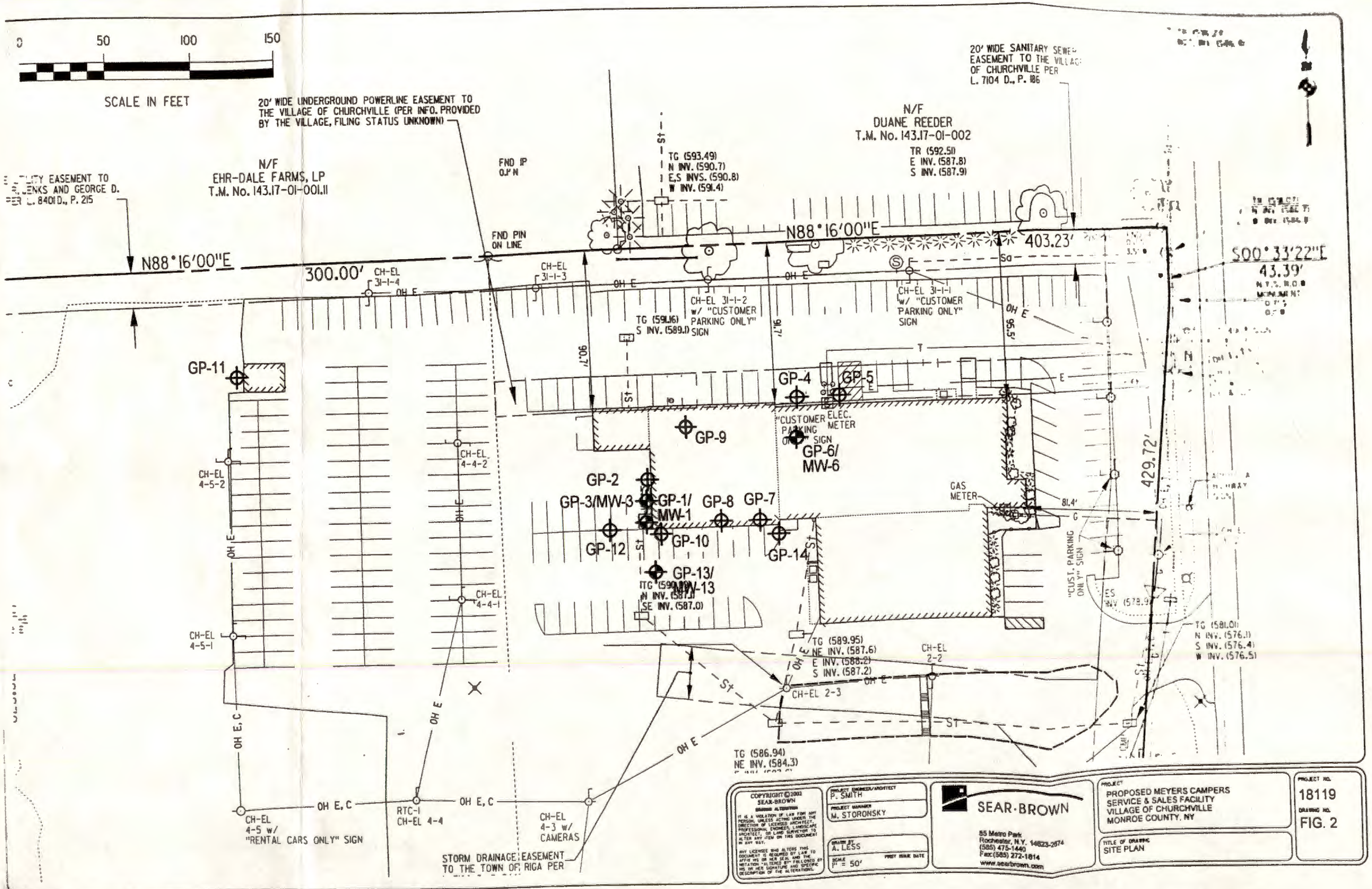
(feet)

Figure 1

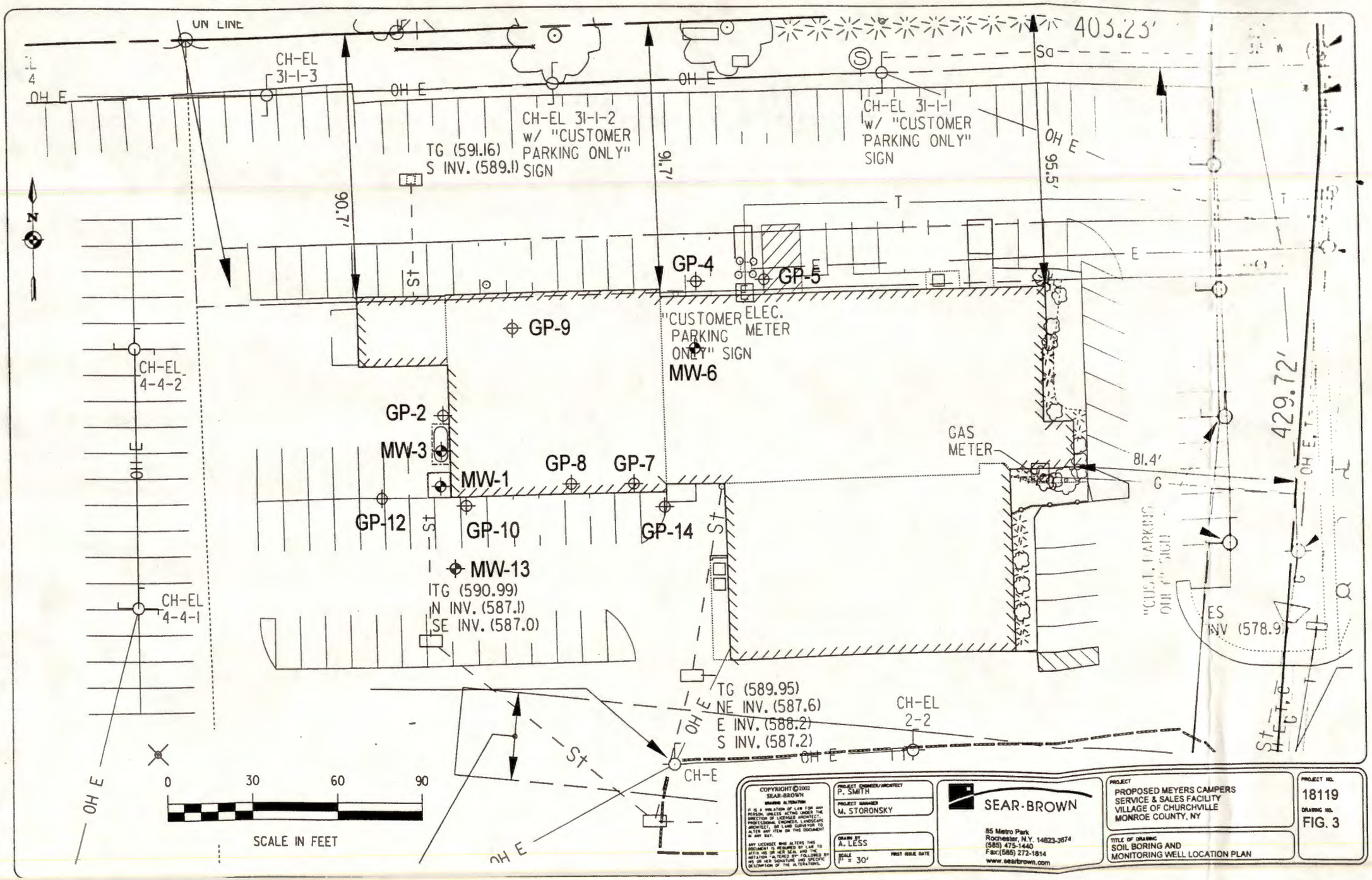
Geophysical Survey Results
Color Contours of EM61 Data
(mVolts)

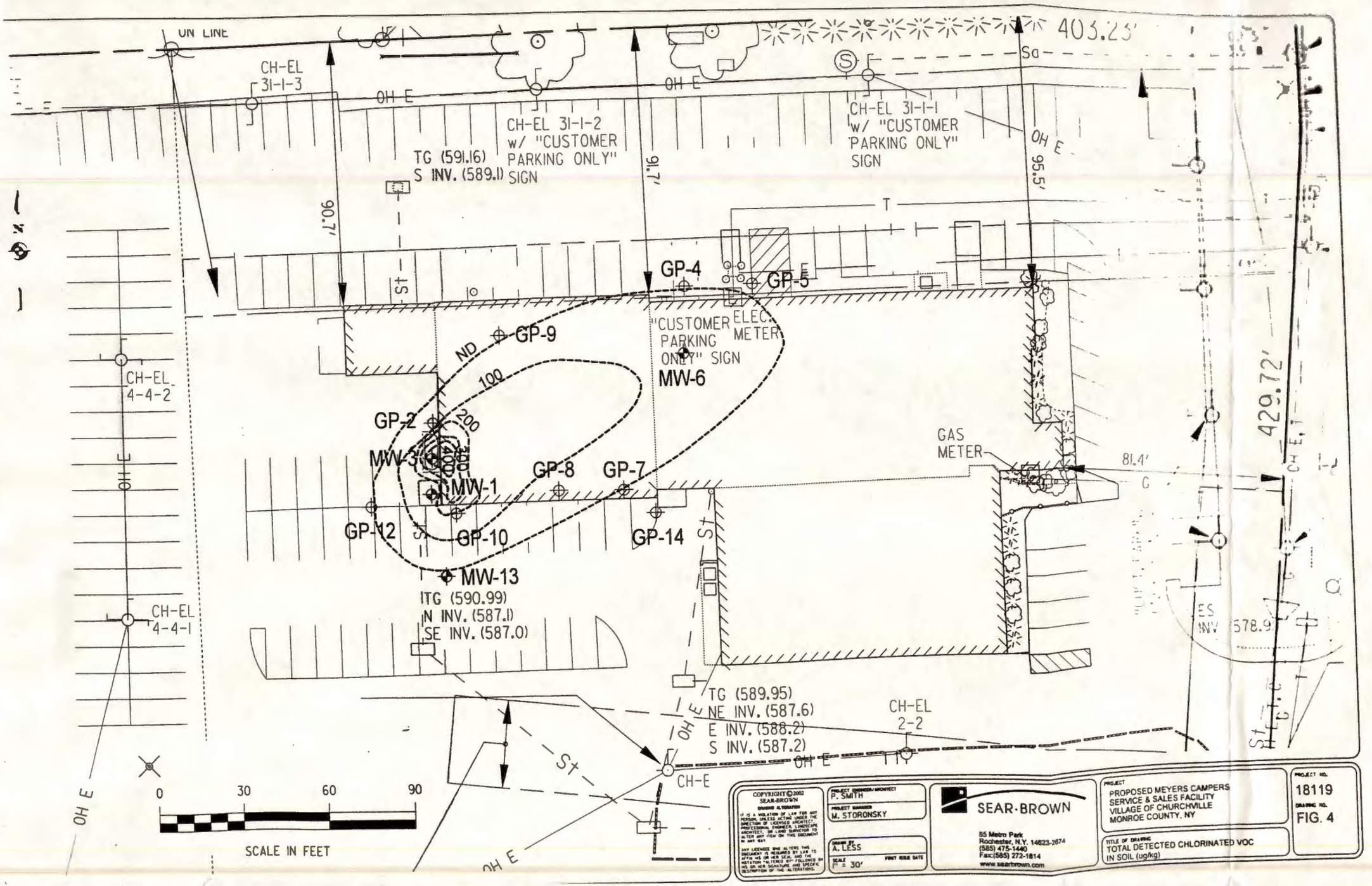
Proposed Meyers Campers
Sales and Service Facility
Village of Churchville, NY
The Sear Brown Group

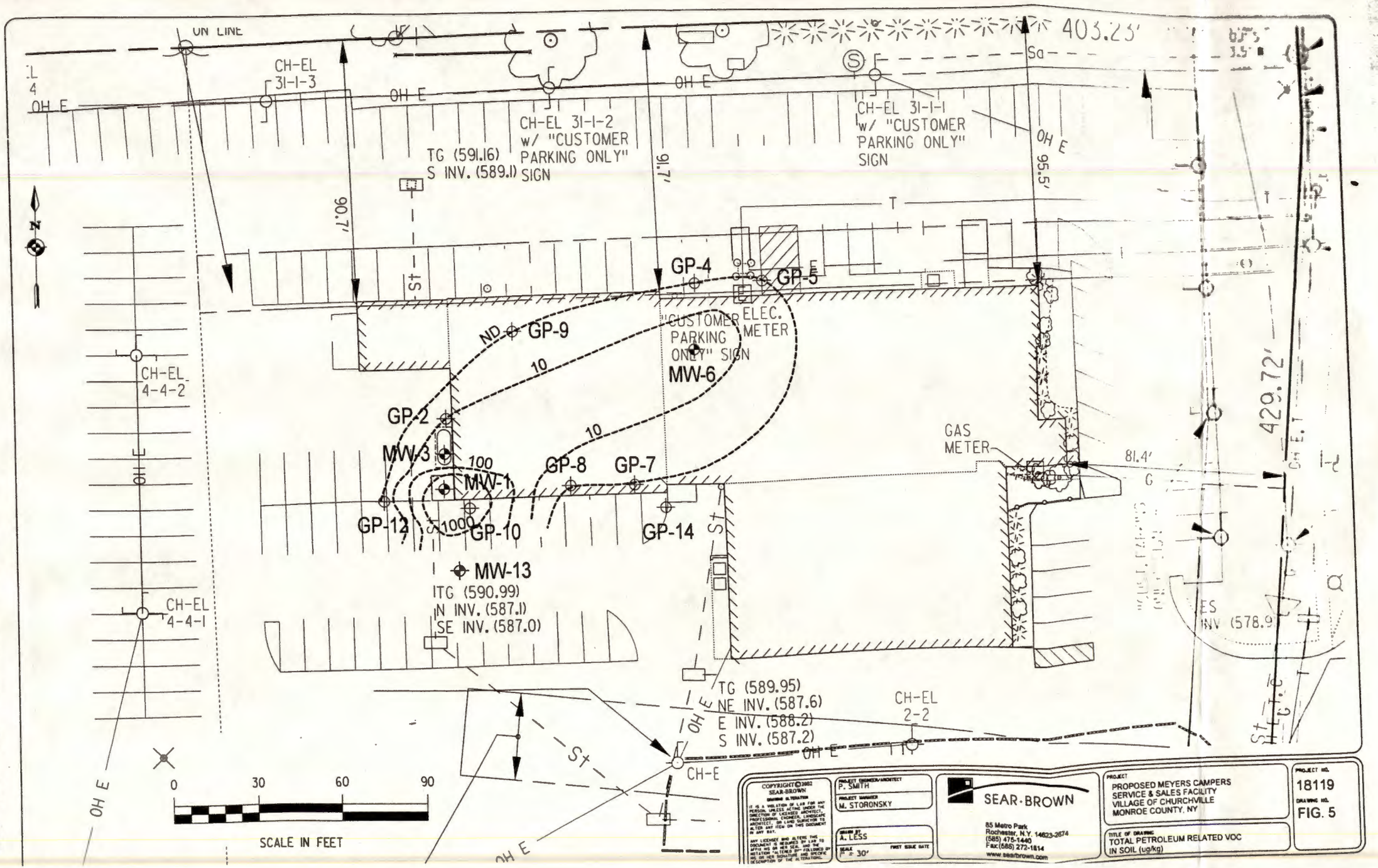
Geomatrix



0 50 100 150
SCALE IN FEET
20' WIDE UNDERGROUND POWERLINE EASEMENT TO THE VILLAGE OF CHURCHVILLE (PER INFO. PROVIDED BY THE VILLAGE, FILING STATUS UNKNOWN)
N/F EHR-DALE FARMS, LP T.M. No. 143.17-01-001.11
N/F DUANE REEDER T.M. No. 143.17-01-002
20' WIDE SANITARY SEWER EASEMENT TO THE VILLAGE OF CHURCHVILLE PER L. 7104 D., P. 186
FND IP
FND PIN ON LINE
TG (593.49) N INV. (590.7) E,S INVS. (590.8) W INV. (591.4)
TR (592.51) E INV. (587.8) S INV. (587.9)
N88°16'00"E
300.00'
403.23'
S00°33'22"E
43.39'
429.72'
CH-EL 31-1-4
CH-EL 31-1-3
CH-EL 31-1-2 w/ "CUSTOMER PARKING ONLY" SIGN
CH-EL 31-1-1 w/ "CUSTOMER PARKING ONLY" SIGN
TG (591.16) S INV. (589.1)
90.7'
91.7'
95.5'
81.4'
GP-11
GP-4
GP-5
ELEC. METER
"CUSTOMER PARKING ONLY" SIGN
GP-9
GP-6/ MW-6
GP-2
GP-3/MW-3
GP-1/ MW-1
GP-8
GP-7
GP-12
GP-10
GP-14
GP-13/ MW-13
GAS METER
"CUST. PARKING ONLY" SIGN
CH-EL 4-4-2
CH-EL 4-5-2
CH-EL 4-4-1
CH-EL 4-5-1
TG (590.10) N INV. (587.1) SE INV. (587.0)
TG (589.95) NE INV. (587.6) E INV. (588.2) S INV. (587.2)
CH-EL 2-2
CH-EL 2-3
TG (581.01) N INV. (576.1) S INV. (576.4) W INV. (576.5)
TG (586.94) NE INV. (584.3)
CH-EL 4-5 w/ "RENTAL CARS ONLY" SIGN
RTC-1 CH-EL 4-4
CH-EL 4-3 w/ CAMERAS
STORM DRAINAGE EASEMENT TO THE TOWN OF RIGA PER
OH E
OH E, C
COPYRIGHT © 2002 SEAR-BROWN
PROJECT ENGINEER/ARCHITECT P. SMITH
PROJECT MANAGER M. STORONSKY
DRAWN BY A. LESS
SCALE 1" = 50'
SEAR-BROWN
85 Metro Park Rochester, N.Y. 14623-2674 (585) 475-1440 Fax:(585) 272-1814 www.searbrown.com
PROJECT PROPOSED MEYERS CAMPERS SERVICE & SALES FACILITY VILLAGE OF CHURCHVILLE MONROE COUNTY, NY
TITLE OF DRAWING SITE PLAN
PROJECT NO. 18119
DRAWING NO. FIG. 2


UN LINE
403.23'
CH-EL 31-1-3
OH E
CH-EL 31-1-2 w/ "CUSTOMER PARKING ONLY" SIGN
CH-EL 31-1-1 w/ "CUSTOMER PARKING ONLY" SIGN
TG (591.16)
S INV. (589.1)
90.7'
91.7'
95.5'
GP-4
GP-5
GP-9
"CUSTOMER PARKING ONLY" SIGN
ELEC. METER
MW-6
CH-EL 4-4-2
GP-2
MW-3
MW-1
GP-8
GP-7
GAS METER
81.4'
429.72'
GP-12
GP-10
GP-14
MW-13
ITG (590.99)
N INV. (587.1)
SE INV. (587.0)
CH-EL 4-4-1
TG (589.95)
NE INV. (587.6)
E INV. (588.2)
S INV. (587.2)
CH-EL 2-2
ES INV (578.9
0
30
60
90
SCALE IN FEET
COPYRIGHT ©2002 SEAR-BROWN
PROJECT ENGINEER/ARCHITECT P. SMITH
PROJECT MANAGER M. STORONSKY
DRAWN BY A. LESS
SCALE 1" = 30'
SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax:(585) 272-1814
www.searbrown.com
PROJECT
PROPOSED MEYERS CAMPERS SERVICE & SALES FACILITY
VILLAGE OF CHURCHVILLE
MONROE COUNTY, NY
TITLE OF DRAWING
SOIL BORING AND MONITORING WELL LOCATION PLAN
PROJECT NO. 18119
DRAWING NO. FIG. 3


UN LINE
CH-EL 31-1-3
OH E
CH-EL 31-1-2 w/ "CUSTOMER PARKING ONLY" SIGN
TG (591.16)
S INV. (589.1)
CH-EL 31-1-1 w/ "CUSTOMER PARKING ONLY" SIGN
403.23'
Sa
90.7'
91.7'
95.5'
T
St
GP-4
GP-5
GP-9
ND
100
200
GP-2
MW-3
MW-1
GP-8
GP-7
GP-12
GP-10
GP-14
MW-13
ITG (590.99)
N INV. (587.1)
SE INV. (587.0)
"CUSTOMER PARKING ONLY" SIGN
ELEC. METER
MW-6
GAS METER
81.4'
429.72'
CH-EL 4-4-2
CH-EL 4-4-1
CH-EL 2-2
TG (589.95)
NE INV. (587.6)
E INV. (588.2)
S INV. (587.2)
CH-E
ES INV 578.9
0
30
60
90
SCALE IN FEET
COPYRIGHT © 2002 SEAR-BROWN
PROJECT MANAGER/ARCHITECT P. SMITH
PROJECT ENGINEER M. STORONSKY
DRAWN BY A. LESS
SCALE 1" = 30'
FIRST ISSUE DATE
SEAR·BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax:(585) 272-1814
www.searbrown.com
PROJECT
PROPOSED MEYERS CAMPERS SERVICE & SALES FACILITY
VILLAGE OF CHURCHVILLE
MONROE COUNTY, NY
TITLE OF DRAWING
TOTAL DETECTED CHLORINATED VOC IN SOIL (ug/kg)
PROJECT NO.
18119
DRAWING NO.
FIG. 4



PROJECT ENGINEER/ARCHITECT: P. SMITH
PROJECT MANAGER: M. STORONSKY
DRAWN BY: A. LESS
SCALE: 1" = 30'
FIRST ISSUE DATE:

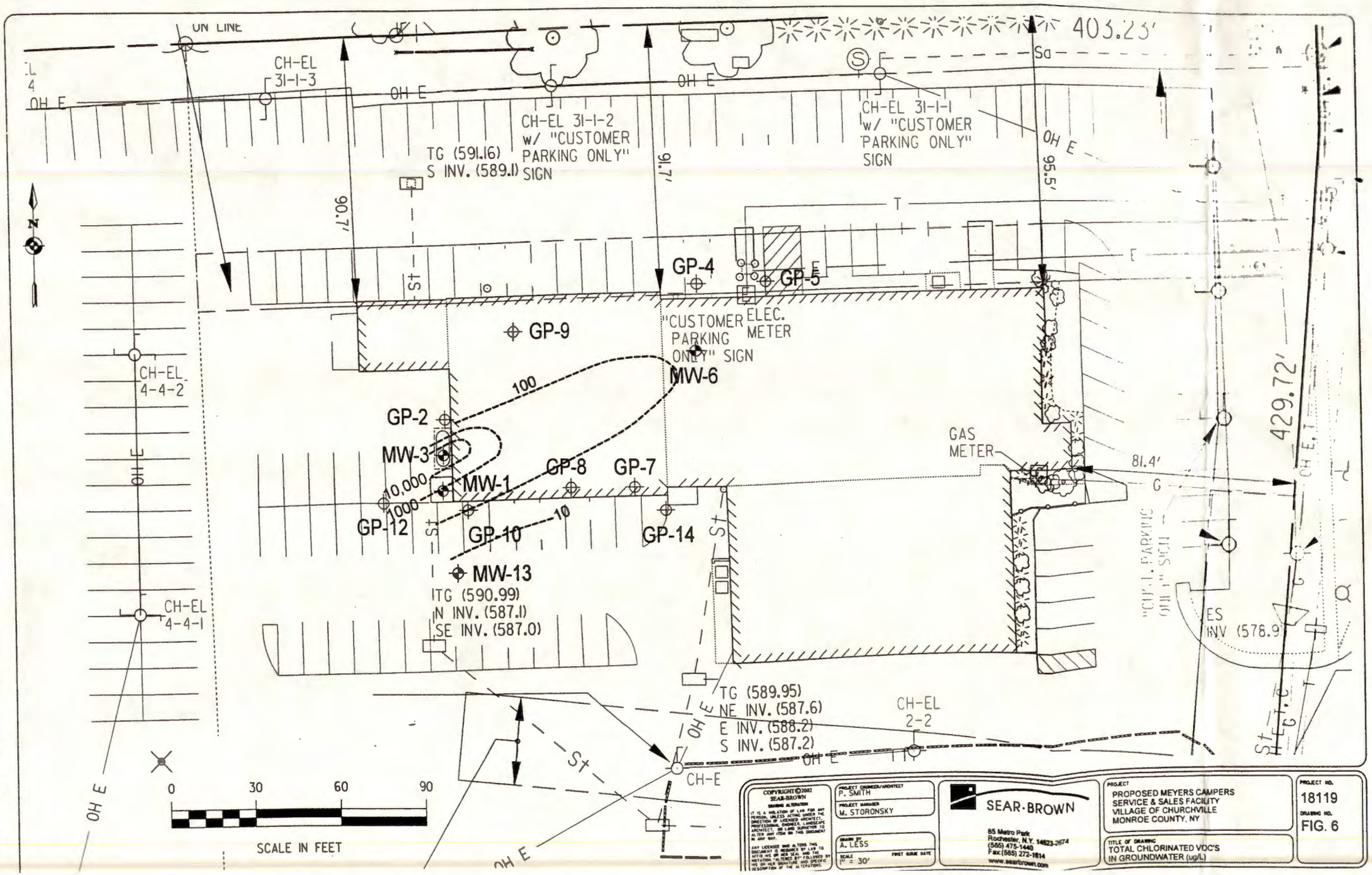
SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax:(585) 272-1814
www.searbrown.com

PROJECT: PROPOSED MEYERS CAMPERS SERVICE & SALES FACILITY VILLAGE OF CHURCHVILLE MONROE COUNTY, NY

PROJECT NO. 18119

DRAWING NO. FIG. 5

TITLE OF DRAWING: TOTAL PETROLEUM RELATED VOC IN SOIL (ug/kg)



PROJECT OWNER/ARCHITECT: P. SMITH
PROJECT MANAGER: M. STORONSKY
DRAWN BY: A. LESS
SCALE: 1" = 30'
FIRST ISSUE DATE:

SEAR-BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax: (585) 272-1814
www.searbrown.com

PROJECT: PROPOSED MEYERS CAMPERS SERVICE & SALES FACILITY VILLAGE OF CHURCHVILLE MONROE COUNTY, NY

TITLE OF DRAWING: TOTAL CHLORINATED VOC'S IN GROUNDWATER (ug/L)

PROJECT NO. 18119

DRAWING NO. FIG. 6

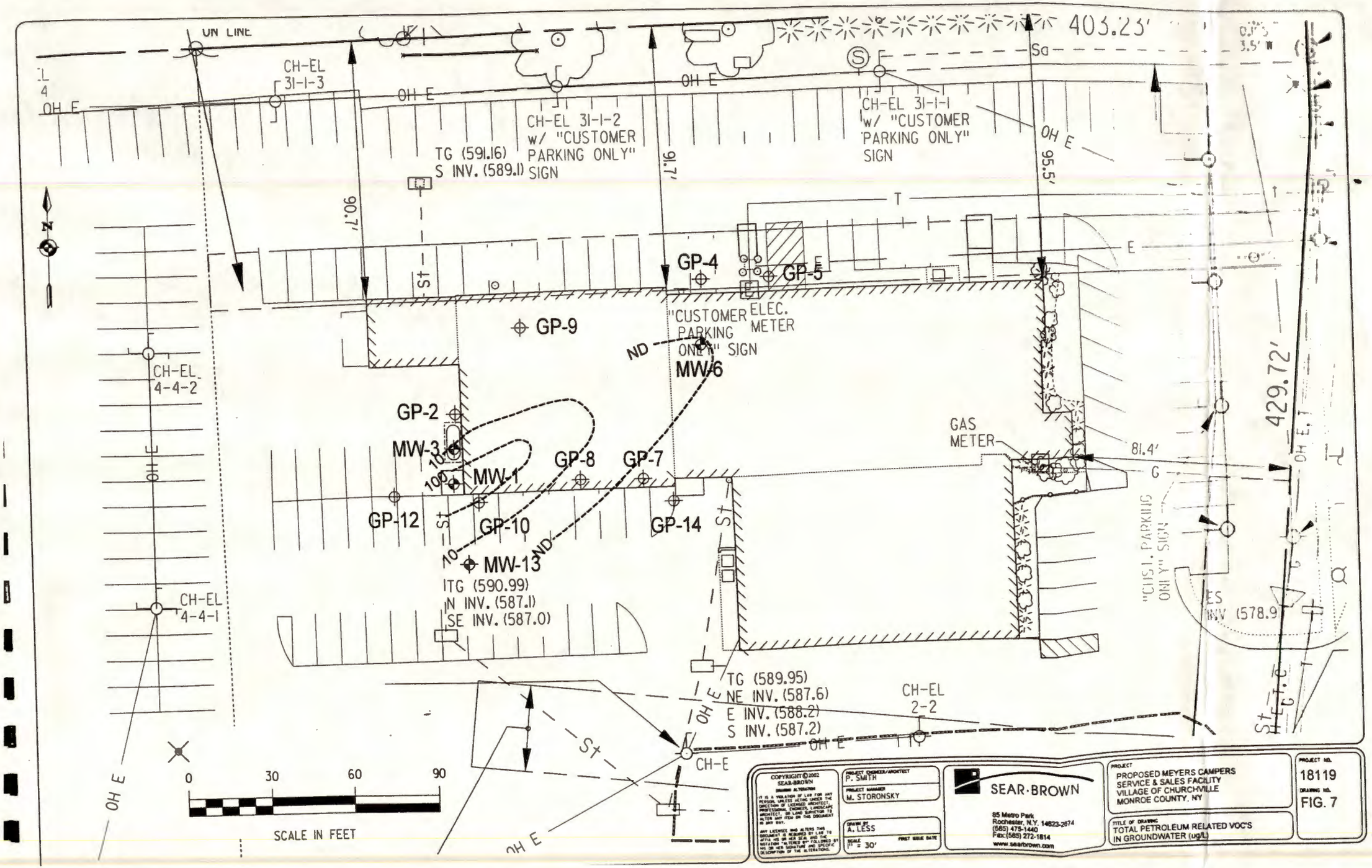

403.23'
CH-EL 31-1-3
CH-EL 31-1-2 w/ "CUSTOMER PARKING ONLY" SIGN
CH-EL 31-1-1 w/ "CUSTOMER PARKING ONLY" SIGN
TG (591.16)
S INV. (589.1)
90.7'
91.7'
95.5'
GP-4
GP-5
GP-9
"CUSTOMER PARKING ONLY" SIGN
ELEC. METER
MW-6
ND
CH-EL 4-4-2
GP-2
MW-3
MW-1
GP-8
GP-7
GP-12
GP-10
GP-14
MW-13
ITG (590.99)
N INV. (587.1)
SE INV. (587.0)
CH-EL 4-4-1
GAS METER
81.4'
429.72'
"CUST. PARKING ONLY" SIGN
ES INV (578.9
TG (589.95)
NE INV. (587.6)
E INV. (588.2)
S INV. (587.2)
CH-EL 2-2
CH-E
0
30
60
90
SCALE IN FEET
COPYRIGHT ©2002 SEAR-BROWN
P. SMITH
M. STORONSKY
A. LESS
SCALE 1" = 30'
SEAR·BROWN
85 Metro Park
Rochester, N.Y. 14623-2674
(585) 475-1440
Fax:(585) 272-1814
www.searbrown.com
PROPOSED MEYERS CAMPERS SERVICE & SALES FACILITY
VILLAGE OF CHURCHVILLE
MONROE COUNTY, NY
TOTAL PETROLEUM RELATED VOC'S IN GROUNDWATER (ug/L)
PROJECT NO. 18119
DRAWING NO. FIG. 7

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Proposed Meyers Campers Site
Churchville, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP-1	0-2	17.0	12.0	0.8
	2-4	4.2	1.8	1.0
	4-6	7.6	6.8	1.0
	6-8	3.0	2.6	1.0
	8-10	wet	wet	0.8
	10-12	1.4	1.4	0.8
GP-2	0-2	2.2	2.2	0.8
	2-4	2.6	2.6	0.8
	4-6	4.1	4.0	0.8
	6-8	1.2	1.0	0.8
	8-10	wet	wet	wet
	10-12	1.2	1.2	0.6
GP-3	0-2	5.0	3.2	0.2
	2-4	5.2	3.2	0.4
	4-6	60.0	32.0	0.4
	6-8	32.0	22.0	0.6
	8-10	40.0	16.0	0.4
	10-12	1.0	0.8	0.4
GP-4	0-2	1.4	1.2	0.4
	2-4	1.6	1.4	0.6
	4-6	2.2	2.0	0.6
	6-8	1.8	1.6	0.6
	8-10	1.6	1.0	0.4
	10-12	1.6	1.0	0.4
GP-5	0-2	1.6	0.8	0.4
	2-4	0.6	0.4	0.4
	4-6	1.2	1.2	0.4
	6-8	0.6	0.6	0.4
	8-10	wet	wet	wet
	10-12	1.6	1.4	0.4

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu Model 101 equipped with 10.2 eV lamp.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)

Proposed Meyers Campers Site
Churchville, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP-6 (round 1)	0-4	17.0	15.2	1.0
	4-6	4.0	3.2	1.0
	6-8	6.0	3.2	1.0
GP-6 (round 2)	0-4	5.2	2.8	1.0
	4-6	4.8	2.0	1.0
	6-8	8.0	3.2	0.4
GP-7	0-2	2.0	2.0	0.8
	2-4	1.6	1.6	0.8
GP-8	0-4	2.4	2.2	0.8
	4-6	2.2	2.0	0.8
	6-8	1.6	1.6	0.8
GP-9	0-2	2.2	2.2	0.8
	2-4	1.2	1.2	0.8
GP-10	0-2	9.2	7.2	0.8
	2-4	4.2	3.6	0.8
	4-6	38.0	26.0	0.8
	6-8	3.6	2.2	0.8
	8-10	wet	wet	wet
	10-12	wet	wet	wet
GP-11	0-4	1.2	1.2	0.8
	4-6	1.2	1.2	0.8
	6-8	1.4	1.0	0.8

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu Model 101 equipped with 10.2 eV lamp.

TABLE 1
SUMMARY OF PID HEADSPACE READINGS (ppm)
Proposed Meyers Campers Site
Churchville, NY

Borehole	Depth (ft. bgs)	PID Readings		
		Peak (ppm)	Sustained (ppm)	Background (ppm)
GP-12	0-2	0.0	0.0	0.0
	2-4	0.0	0.0	0.0
	4-6	0.0	0.0	0.0
	6-8	0.0	0.0	0.0
	8-10	0.0	0.0	0.0
	10-12	0.0	0.0	0.0
GP-13	0-2	0.0	0.0	0.0
	2-4	0.0	0.0	0.0
	4-6	0.0	0.0	0.0
	6-8	0.0	0.0	0.0
GP-14	0-2	0.0	0.0	0.0
	2-4	0.0	0.0	0.0

Notes:
1. ft. bgs = feet below ground surface.
2. ppm = parts per million.
3. PID data collected with Hnu Model 101 equipped with 10.2 eV lamp.

TABLE 2
SOIL SAMPLE SUMMARY
Proposed Meyers Campers Site
Churchville, NY

Sample ID	Location	Date	Depth (ft. bgs)	Parameters
GP1 / 0' - 2'	GP-1	08/07/02	0 - 2	TCL/STARS VOCs by EPA 8260 STARS B/N SVOCs + TICS by EPA 8270 Glycols by EPA 8015
GP3 / 4' - 6'	GP-3	08/07/02	4 - 6	TCL/STARS VOCs by EPA 8260 STARS B/N SVOCs + TICS by EPA 8270 Glycols by EPA 8015
GP6 / 0' - 4'	GP-6	08/07/02	0 - 4	TCL/STARS VOCs by EPA 8260 STARS B/N SVOCs + TICS by EPA 8270 Glycols by EPA 8015
GP8 / 0' - 4'	GP-8	08/08/02	0 - 4	TCL/STARS VOCs by EPA 8260
GP9 / 0' - 2'	GP-9	08/08/02	0 - 2	TCL/STARS VOCs by EPA 8260
GP10 / 4' - 6'	GP-10	08/08/02	4 - 6	TCL/STARS VOCs by EPA 8260 STARS B/N SVOCs + TICS by EPA 8270 Glycols by EPA 8015
GP13 / 4' - 5'	GP-13	08/08/02	4 - 5	TCL/STARS VOCs by EPA 8260 STARS B/N SVOCs + TICS by EPA 8270 Glycols by EPA 8015

Notes:
1. ft. bgs = feet below ground surface.

TABLE 3
WELL COMPLETION SUMMARY
Proposed Meyers Campers Site
Churchville, NY

Well	Reference Elevation	Stick Up (ft.)	Well Diameter (in.)	Bentonite Seal (ft. bgs)	Sandpack Interval (ft. bgs)	Screened Interval (ft. bgs)	Total Depth (ft. bgs)
GP-1	100.51	1.92	1	None	None	5 - 10	10
GP-3	101.17	1.58	1	None	None	1 - 11	11
GP-6	100.49	0.58	1	None	None	3 - 8	8
GP-13	101.8	2.90	1	None	None	2.5 - 7.5	7.5

Notes:
1. Reference elevation based upon [an assumed datum of 100.00 ft., "x" on finished floor, south side of overhead door, west side of garage.].
2. ft. bgs = feet below ground surface.

TABLE 4
WATER LEVEL SUMMARY
Proposed Meyers Campers Site
Churchville, NY

Well	Reference Elevation	August 12, 2002		August 15, 2002	
		Water Level (ft. btoc)	Water Level (elevation)	Water Level (ft. btoc)	Water Level (elevation)
MW-1	100.51	6.29 / 6.59 *	94.22 / 93.92 *	5.92 / 6.40 *	94.59 / 94.11 *
MW-3	101.17	6.21	94.96	6.28	94.89
MW-6	100.49	5.70	94.79	5.83	94.66
MW-13	101.80	5.94	95.86	5.88	95.92

Notes:
1. Reference elevation based upon an assumed datum of 100.00 ft., "x" chiseled on finished floor, south side of overhead door, west side of garage.
2. ft. btoc = feet below top of casing.
3. * = MW-1 measured ~ 0.5 ft. of floating product on water column.

TABLE 5
WELL DEVELOPMENT SUMMARY
Proposed Meyers Campers Site
Churchville, NY

Well	Date	Water Level (ft. btoc)	Volume Purged (gal)	pH (SU)	Conductivity (umhos/cm)	Temperature (°C)
MW-1	08/12/02	6.29	NA(6)	NA(6)	NA(6)	NA(6)
MW-3	08/12/02	6.21	0.32	6.32 6.60	1146 1190	24.0 23.1
MW-6	08/12/02	5.70	0.1	6.64 6.79	881 694	21.3 20.9
MW-13	08/12/02	5.94	0.16	6.37 6.69	1136 1186	26.9 29.2

Notes:
1. ft btoc = feet below top of casing.
2. gal = gallons.
3. SU = standard units.
4. umhos/cm = micromhos per centimeter.
5. (°C) = degrees Celcius.
6. NA = Not Avaliable. No measurements taken due to floating product.

TABLE 6
GROUNDWATER SAMPLE SUMMARY
Proposed Meyers Campers Site
Churchville, NY

Sample ID	Location	Date	Method	Parameters
MW-1	MW-1	08/12/02	8260 8270 8015	TCL/STARS VOCs STARS B/N SVOCs + TICS Glycols
MW-3	MW-3	08/12/02	8260 8270 8015	TCL/STARS VOCs STARS B/N SVOCs + TICS Glycols
MW-6	MW-6	08/12/02	8260 8270 8015	TCL/STARS VOCs STARS B/N SVOCs + TICS Glycols
MW-13	MW-13	08/12/02	8260 8270 8015	TCL/STARS VOCs STARS B/N SVOCs + TICS Glycols

Notes:

TABLE 7
SUMMARY OF DETECTED TCL and STARS LIST VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)
Proposed Meyers Camper Site
Churchville, NY

COMPOUNDS	Soil Samples							Allowable Soil Concentration [1,5]	Recommended Soil Cleanup Objectives [1,6,7]
	GP-1 0 - 2'	GP-3 4 - 6'	GP-6 0 - 4'	GP-8 0 - 4'	GP-9 0 - 2'	GP-10 4 - 6'	GP-13 4 - 5'		
Volatile Halocarbons									
cis-1,2-Dichloroethene	162	**250**	ND< 8.91	**7.53**	ND< 8.93	136	ND< 6.41	3[8]	300 [8]
Tetrachloroethene	ND< 152	**211**	**68.9**	ND< 7.06	ND< 8.93	**56.1**	ND< 6.41	14	1400
Trichloroethene	ND< 152	**260**	**9.12**	ND< 7.06	ND< 8.93	10	ND< 6.41	7	700
Volatile Aromatics									
Ethylbenzene	**186**	ND< 7.96	ND< 8.91	ND< 7.06	ND< 8.93	**60.4**	8.37	55	5500
Toluene	**381**	ND< 7.96	ND< 8.91	ND< 7.06	ND< 8.93	**129**	6.70	15	1500
m,p - Xylene	**809**	ND< 7.96	ND< 8.91	ND< 7.06	ND< 8.93	**254**	**20.4**	12[9]	1200[9]
o - Xylene	**527**	ND< 7.96	ND< 8.91	ND< 7.06	ND< 8.93	**188**	**20.4**	12[9]	1200[9]
Ketones & Misc.									
Acetone	ND< 758	ND< 39.8	ND< 44.5	ND< 35.3	ND< 44.7	**161**	**66.4**	1.1	200
Additional Compounds									
Isopropylbenzene	ND< 119	ND< 10.2	ND< 8.91	ND< 7.06	ND< 8.93	10.2	ND< 6.41	23	2300
n-Propylbenzene	**123**	ND< 10.2	ND< 8.91	ND< 7.06	ND< 8.93	**42.7**	8.01	37	3700
1,3,5-Trimethylbenzene	**458**	ND< 10.2	ND< 8.91	ND< 7.06	ND< 8.93	**162**	19.4	33	3300
1,2,4-Trimethylbenzene	**1,420**	ND< 10.2	ND< 8.91	ND< 7.06	ND< 8.93	**654**	114	130	10000
p-Isopropyltoluene	ND< 119	ND< 10.2	17.0	ND< 7.06	ND< 8.93	31.5	ND< 6.41	110	10000
Naphthalene	**1,010**	40.8	22.3	ND< 17.7	ND< 22.3	**336**	39.7	130	13000

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bold** = reported concentration above allowable soil concentration.
4. ND = not detected.
5. Allowable soil concentration is based upon water-soil partition theory that is used as a basis to determine soil standards or contamination limits for the protection of water
6. For use when contaminated soil is not close (i.e. <3-5 feet) to the groundwater table or within groundwater.
7. Soil Cleanup Objectives are based upon an assumed 1% organic carbon content and require adjustment for actual organic carbon content of soil.
8. Values for trans 1,2-Dichloroethene.
9. Values for total xylenes.

TABLE 8
SUMMARY OF DETECTED STARS LIST SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL (ug/kg)

Proposed Meyers Campers Site
Churchville, NY

COMPOUNDS	Soil Samples					Allowable Soil Concentration [1,5]	Recommeded Soil Cleanup Objective [1]
	GP-1 0 - 2 '	GP-3 4 - 6'	GP-6 0 - 4'	GP-10 4 - 6 '	GP-13 4 - 5 '		
SVOCs							
Naphthalene	**1,150**	ND< 308	ND< 316	**1,160**	ND< 309	**130**	**13,000**
Fluoranthene	468	ND< 308	ND< 316	933	518	**19000**	**50,000 ***
Phenanthrene	648	ND< 308	ND< 316	775	ND< 309	**2200**	**50,000 ***
Chrysene	ND< 324	ND< 308	ND< 316	**396**	**426**	**4**	**400**
Pyrene	401	ND< 308	ND< 316	643	589	**6600**	**50,000 ***
Benzo (b) fluoranthene	ND< 324	ND< 308	ND< 316	ND< 321	**489**	**11**	**61 or MDL**
SVOC TICs							
Total TICs	*29,740*	*465*	*9,568*	*32,033*	*0*		**50,000 ***

Notes:

1. NYSDEC. January 24, 1994. Determination of Soil Cleanup Objectives and Cleanup Levels, Division of Hazardous Waste Remediation, Technical and Administrative Guidance Memorandum, HWR 94-4046 (Revised December 2000).
2. ug/kg = all values expressed in micrograms per kilogram (equivalent to parts per billion).
3. **Bold** = reported concentration above allowable soil concentration.
4. * = As per TAGM 4046, individual sums of SVOCs may not exceed 50,000 ppb.
5. Allowable soil concentration is based upon water-soil partition theory that is used as a basis to determine soil standards or contamination limits for the protection of water.
6. For use when contaminated soil is not close (i.e. <3-5 feet) to the groundwater table or within groundwater.
7. Soil Cleanup Objectives are based upon an assumed 1% organic carbon content and require adjustment for actual organic carbon content of soil.

TABLE 9
Summary of Detected Volatile Organic Compounds in Groundwater (ug\L)
Proposed Meyers Campers Site
Churchville, NY

COMPOUNDS	Groundwater Samples				NYSDEC Groundwater Standards and Guidance Values [1]
	MW-1	MW-3	MW-6	MW-13	
Volatile Halocarbons					
1,1-Dichloroethane	**23.7**	ND< 200	ND< 2.00	ND< 2.00	5
cis-1,2-Dichloroethene	**366**	**8,680**	**8.40**	**7.07**	5
Tetrachloroethene	ND< 4.00	**3,370**	**47.7**	ND< 2.00	5
1,1,1-Trichloroethane	**6.94**	ND< 200	ND< 2.00	ND< 2.00	5
Trichloroethene	**38.8**	**5,950**	**24.8**	ND< 2.00	5
Volatile Aromatics					
Benzene	**3.39**	ND< 70.0	ND< 0.700	ND< 0.700	1
Toluene	**24.4**	ND< 200	ND< 2.00	ND< 2.00	5
m,p - Xylene	**16.6**	ND< 200	ND< 2.00	ND< 2.00	5
o - Xylene	**23.1**	ND< 200	ND< 2.00	ND< 2.00	5
Ketones & Misc.					
4-Methyl-2-pentanone	10.2	ND< 500	ND< 5.00	ND< 5.00	NR
Additional Compounds					
Methyl tert-Butyl Ether	**64.7**	**10.8**	ND< 2.00	ND< 2.00	10 *
1,3,5-Trimethylbenzene	**6.71**	ND< 2.00	ND< 2.00	ND< 2.00	5
1,2,4-Trimethylbenzene	**17.1**	ND< 2.00	ND< 2.00	**5.43**	5
Naphthalene	**24.3**	ND< 5.00	ND< 5.00	7.06	10 *

Notes:
1. NYSDEC. October 22, 1993. Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (1.1.1), revised June 1998; January 1999 Errata Sheet; April 2000 Addendum.
2. ug/l = all values expressed in micrograms per liter (equivalent to parts per billion).
3. **Bold** = reported concentration above groundwater standard or guidance value.
4. * = Guidance Value.
5. NR = not regulated by the POC groundwater standard.

The device's transmitter coil generates a pulsed primary EM field at a rate of 150 pulses per second, inducing eddy currents into the subsurface. The decay rates of these eddy currents are measured by two, 3.28 foot by 1.64 foot (1 meter by ½ meter) rectangular receiver coils. By taking the measurements at a relatively long time frame after termination of the primary pulse, the response is practically independent of the survey area's terrain conductivity. Specifically, the decay rates of the eddy currents are much longer for metals than for normal soils allowing the discrimination of the two.

Data are collected from the EM61's two receiver coils. One of the receiver coils is located coincident to the transmitter coil. The other receiver coil is located 1.31 feet (0.4 meters) above the transmitter coil. Data from the top receiver coil are stored on Channel 1 of a digital data logger. Data from the bottom receiver coil are stored on Channel 2 of the data logger. Channel 1 and Channel 2 data are simultaneously recorded at each station location. The instrument responses are recorded in units of milliVolts (mV). Data were recorded digitally by a data logger at a rate of approximately 2 measurements per foot along the survey lines which were spaced 3 feet apart.

EM61 (Photo not from this site)

3.0 RESULTS

The EM61 data are presented in Figure 1. The color bar to the right of the map indicates the colors associated with the respective measured values. Areas suspected to be free of buried metals are shown as color shades of blue. All areas exhibiting a response greater than background (0 to 15 mVolts) likely contain buried metals. These areas are depicted in shades of light green through purple on the figure.

There are no anomalies within the survey area that are interpreted to be associated with USTs. A north-south trending linear anomaly observed on the western portion of the survey area is likely associated with a buried metallic line trending towards a drainage grate.

4.0 LIMITATIONS

The geophysical methods used during this survey are established, indirect techniques for non-invasive subsurface reconnaissance exploration. As these instruments utilize indirect

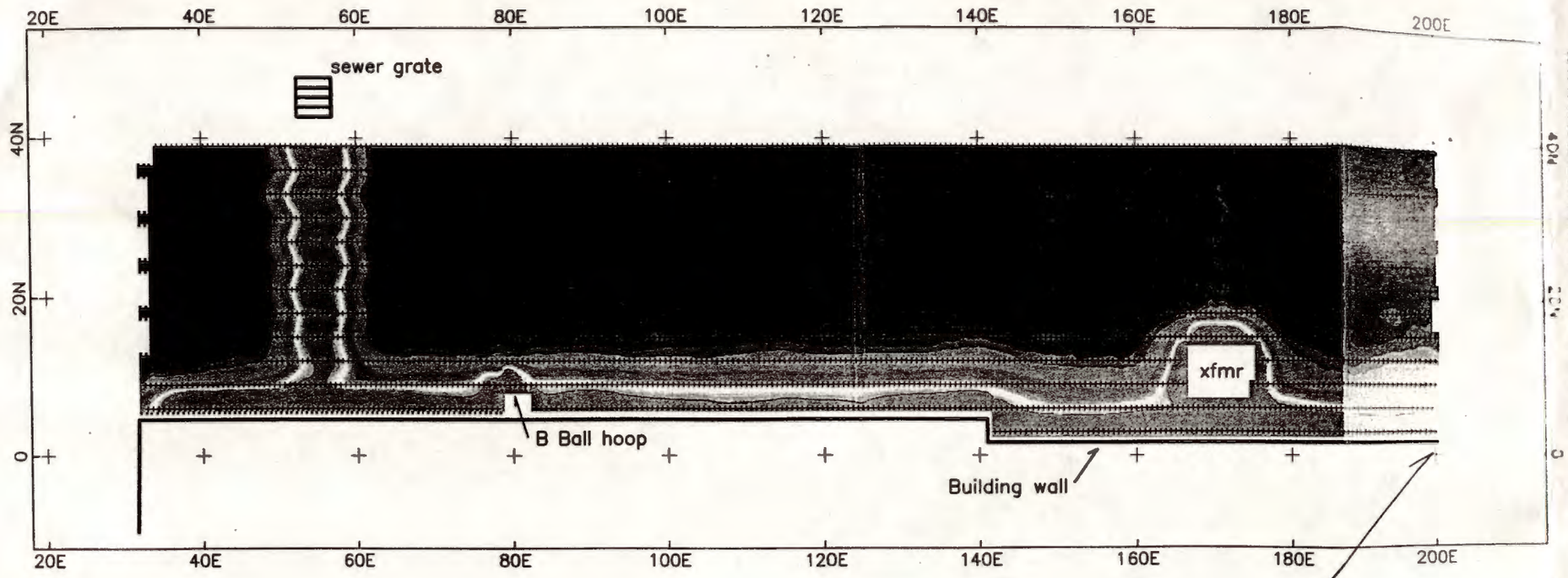
methods, they are subject to inherent limitations and ambiguities. All geophysical methods utilize interpretative techniques which can be significantly impacted by varying site conditions. Anomalies can only be identified if they show recognizable patterns against data representative of background or natural conditions. Therefore, where possible, confirmation of any geophysical anomalies identified or interpreted should be sought through the use of historical aerial photography, test pit and/or borehole information.

We trust the information contained in this report is sufficient for your present needs. Please do not hesitate to contact us if you have any questions or require additional information.

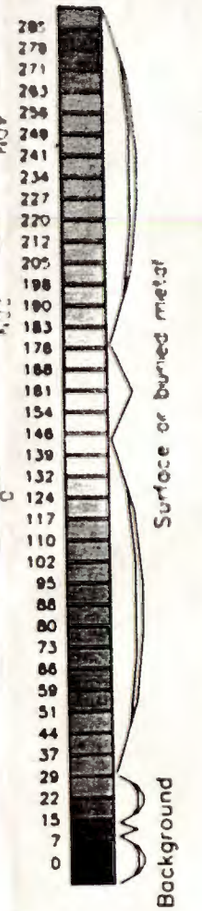
Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

John Luttinger

John Luttinger
Senior Geophysicist



Reference Point
Grid coordinate 0N, 200 E is located at the intersection of the north building edge and the east edge of the building door located in this area.



EM61 Response
(mVolts)

Grid North

Scale 1:180

10 0 10 20 30
(feet)

Figure 1

Geophysical Survey Results
Color Contours of EM61 Data
(mVolts)

Proposed Meyers Campers
Sales and Service Facility
Village of Churchville, NY
The Sear Brown Group

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-1

Page 1 of 1

Project: Meyers S.I.
Project #: 18119.01
Client: M
Location:

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 70° F

Start Date: 8/7/02
Completion Date: 8/7/02
Drilling Method: Earth probe
Supervisor: K. Mihe

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	concrete, dark gray silty clay with some fine gravel petro. odor
2										
									2-4	dark gray silty clay with trace gravel petro. odor moist to wet from 2-3'
4							30"			
								2	4-6	4-5 gray silty clay petro odor wet
6										5-6 mix of reddish brown ss. and gray silty clay petro odor
								*	6-8	reddish brown silty clay with some gravel (fine) moist; No odor
8							48"+			
								3	8-10	med brown silt, clay, and gravel very wet no odor (some fall-in from above)
10										
									10-12	reddish brown silty clay with fine gravel moist no odor
12							48"+			
										end of boring @ 12' BG
										set well @ 10' BG 1" dia PVC w/ 5' of screen

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-2

Page 1 of 1

Project: Meyers SRe
Project #: 18119.01
Client: Meyers
Location: Churchville, NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 70°

Start Date: 8/7/02
Completion Date:
Drilling Method: Earthprobe
Supervisor: C. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	asphalt, fine gravel, med. brown sand, silt, and clay moist No odor
2										
									2-4	dark brown silty clay, with sand and fine gravel no odor moist
4							36"			
								2	4-6	4-5 same as above 5-6 reddish brown sand, No odor and coarse gravel, some silt moist
6										
									6-8	reddish brown silt, sand, and clay; trace coarse gravel; native moist No odor
8							48"+			
								3		
10									8-10	Same as above very wet No odor
									10-12	Same as above moist No odor
12							48"+			
										boring terminated @ 12' BG, No well set, backfilled w/ cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-3

Page 1 of 1

Project: Meyers Site
Project #: 18119.01
Client: Meyers
Location: Churchville NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 70° F

Start Date: 8/7/02
Completion Date: 8/7/02
Drilling Method: Earth Probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
2								1	0-2	asphalt fine gravel, dark brown silty clay, with sand & fine gravel moist; No odor
4							30"		2-4	dark brown silty clay, trace sand and gravel moist; no odor
6								2	4-6	reddish brown silty clay with fine and coarse gravel (native) ~~No odor~~ moist slight odor?
8							48"		6-8	same as above moist; ~~No odor~~ slight odor?
10								3	8-10	same as above moist; slight odor
12							48"		10-12	same as above moist No odor
										Boring terminated @ 12' BG set well @ ~11' BG* with 10' of .010" slot PVC

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-1

Page 1 of

Project: Meyers Site
Project #: 18119.01
Client: Meyers
Location: Churchville

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny, 75° F

Start Date: 8/7/02
Completion Date: 8/7/02
Drilling Method: Earth probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	0-1 Asphalt + gravel 1-2 ~~reddish~~ brown sand silt and gravel, some clay moist No odor
2										
									2-4	~~reddish~~ brown sandy clay with silt and trace coarse gravel moist, No odor
4							40"			
									4-6	Same as above but more clay and less sand No odor
6										
									6-8	Same as above but coarse and fine gravel No odor
8							48"			
									8-10	(Cave in/fall in from above Same as above No odor
10										
									10-12	Same as above No odor
12							30"			
										boring terminated @ 12' BG, No well set; backfilled with cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP5

Page 1 of 1

Project: Meyers Site
Project #: 18119.01
Client: Meyers
Location: Churchville

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny

Start Date: 8/7/02
Completion Date: 8/7/02
Drilling Method: Earth probe
Supervisor: F. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0--2	asphalt and gravel
2										
									2-4	brown sand, silt, and clay with coarse gravel moist; no odor
4							24"			
									4-6	silty, clay, with sand and little fine/coarse gravel moist no odor
6										
									6-8	same as above moist no odor
8							48"			
									8-10	brown sandy clay and fine/coarse gravel wet no odor
10										
									10-12	same as above
12							48"			
										boring terminated @ 12' BG no well installed, backfilled with cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

GP-6

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. oil/water / oil trap
Page 1 of ___

Project: Meyers
Project #: 18119.01
Client: Meyers
Location: Churchville NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather:

Start Date: 8/7/02
Completion Date: 8/7/02
Drilling Method: Earthprobe
Supervisor: Kim Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
							16"	1	0-4	poor recovery crushed concrete atop brown sand, gravel, silt, and clay; very soft, moist no odor
									4-6	brown silt, clay, sand, & gravel dark (staining @ ~4' strong odor moist to wet
									6-8	brown silty clay with trace sand and fill gravel strong odor moist to wet
										terminated boring @ 8' BG

Depth marks (left margin): 2, 4, 6, 8, 10

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP 7

Page ___ of ___

Project: Meyers site
Project #: 1811 9.01
Client: Meyers
Location: Churchville NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: sunny 70's F

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earth probe
Supervisor: K. Meiker

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	~~Conc~~ concrete gravel brown silty clay with sand + gravel NO odor
2										gravel at bottom NO brown sandy clay with silt and coarse gravel
4							30"		2-4	end boring @ 4' BG NO well set backfill w/ cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP8

Page 1 of 1

Project: Meyers site
Project #: 18119.01
Client: Meyers
Location: Churchville NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather:

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earthprobe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-4	poor recovery concrete, blue insulation (below conc.) gravel and brown silty clay with gravel moist odor (solvent)
4							16"	2	4-6	brown silty clay with gravel moist No odor
6									6-8	same as above moist No odor
8							40"			boring terminated @ 8' BG, No well set backfilled w/ cuttings sampled GP8 0-4 (SOS)

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP

Page 1

Project: Meyers Site
Project #: 18119.01
Client: Meyers
Location: Churchville, NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 70°F

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earth pro
Supervisor: K. M[illegible]

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	concrete, gravel sand, silt and clay brown, moist (slight odor
2										
									2-4	med. brown sandy clay with gravel moist No odor
4							48"			
										no well set boring terminated @ 4' BG sampled 0-2 (just in case) back filled w/ cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP 10

Page 1 of 1

Project: Meyers site
Project #: 18119.01
Client: Meyers
Location: Churchville NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 75°F

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earth probe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1		asphalt, gravel and dark gray silty clay and gravel strong odor moist to wet
2										
										dark gray silty clay with gravel moist odor
4							30"			
								2		4-5 same as above moist strong odor
6										5-6 brown silty clay w/ sand & gravel slight odor
										6-8 brown silty clay with sand and gravel moist No odor
8							48"			
								3		same as above very wet No odor
10										
										same as above moist to wet No odor
12							48"			

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP-11

Page 1 of 1

Project: Meyers SA
Project #: 18119.01
Client: Meyers
Location: Churchville

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 75°

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earth probe
Supervisor: K.M.M

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-4	poor recovery gravel, dark brown and reddish brown sandy clay and gravel moist no odor
2										
4							16"			
								2	4-8	reddish brown silty clay with fine and coarse gravel moist no odor
6										
8										
										terminate boring @ 8' BG No well set backfill w/ cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP12

Page 1 of _

Project: Meyers Site
Project #: 18119.01
Client: Meyers
Location: Church St. Nunda NY

Drilling Contractor: NW
Driller: Bruce
Elevation: _____
Weather: Sunny 75° F

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earth probe
Supervisor: K.M.

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	asphalt gravel reddish brown sand silt, clay and gravel moist No odor
2										
									2-4	2-3 reddish brown sand, silt, clay & gravel 3-4 clayey silt with some sand and gravel moist No odor
4							48"			
								2	4-6	reddish brown silty clay with coarse gravel moist No odor
6										
								2	6-8	same as above moist No odor
8										
								3	8-10	~~brown~~ reddish brown ~~sand~~ silt, clay, and gravel very wet No odor
10										
									10-12	reddish brown silty clay moist with gravel No odor
12										
										Boring terminated @ 12' BG, No impacts seen or smelled No well set

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP 13

Page 1 of 1

Project: Meyers Site
Project #: 18119.01
Client: Meyers
Location: Churchville NY

Drilling Contractor: NW
Driller: Bruce
Elevation:
Weather: Sunny 75° F

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earthprobe
Supervisor: K. Miller

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	PID	SAMPLE Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	asphalt, gravel No odor
2										
									2-4	2-3 Same as above 3-4 gray silty clay and gravel moist strong odor
4							48"			
								2	4-6	4-5 gray silty clay and gravel strong odor 5-6 gray to reddish brown silty clay w/ gravel odor
6										
									6-8	brownish red silty clay with gravel moist No odor
8							48"			
										set well @ 7.5' BG boring ended @ 8' BG well set @ 7.5' BG

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

SEAR·BROWN

85 Metro Park
Rochester, NY 14623
(716) 475-1440

Test Boring No. GP 1

Page 1 of _

Project: Meyers Site
Project #: 18119.01
Client: _____
Location: _____

Drilling Contractor: NW
Driller: Bruce
Elevation: _____
Weather: Sunny 75°

Start Date: 8/8/02
Completion Date: 8/8/02
Drilling Method: Earth probe
Supervisor: _____

0	C	Blows on Sampler 0-6"	6-12"	12-18"	18-24"	SAMPLE PID	Rec.	No.	Depth	Soil and Rock Information Remarks
								1	0-2	0-1 asphalt, gravel 1-2 silt, sand, clay + gravel no odor
2										
									2-4	~~brownish red~~ reddish brown sand clay + gravel moist no odor
4							40"			
										end of boring @ 4' BG no well set backfilled w/ cuttings

N = No. of Blows to Drive _____ Spoon _____ with _____ lb. Wt. _____ Ea. Blow
C = No. of Blows to Drive _____ Casing _____ with _____ lb. Wt. _____ Ea. Blow

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Chruchville, NY
Client Job Number: 18119.01
Field Location: GP1 / 0-2'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7262

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/08/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 152
Bromomethane	ND< 152
Bromoform	ND< 152
Carbon tetrachloride	ND< 152
Chloroethane	ND< 152
Chloromethane	ND< 152
2-Chloroethyl vinyl ether	ND< 152
Chloroform	ND< 152
Dibromochloromethane	ND< 152
1,1-Dichloroethane	ND< 152
1,2-Dichloroethane	ND< 152
1,1-Dichloroethene	ND< 152
cis-1,2-Dichloroethene	162
trans-1,2-Dichloroethene	ND< 152
1,2-Dichloropropane	ND< 152
cis-1,3-Dichloropropene	ND< 152
trans-1,3-Dichloropropene	ND< 152
Methylene chloride	ND< 379
1,1,2,2-Tetrachloroethane	ND< 152
Tetrachloroethene	ND< 152
1,1,1-Trichloroethane	ND< 152
1,1,2-Trichloroethane	ND< 152
Trichloroethene	ND< 152
Trichlorofluoromethane	ND< 152
Vinyl Chloride	ND< 152

Aromatics	Results in ug / Kg
Benzene	ND< 152
Chlorobenzene	ND< 152
Ethylbenzene	186
Toluene	381
m,p - Xylene	809
o - Xylene	527
Styrene	ND< 152
1,2-Dichlorobenzene	ND< 152
1,3-Dichlorobenzene	ND< 152
1,4-Dichlorobenzene	ND< 152

Ketones	Results in ug / Kg
Acetone	ND< 758
2-Butanone	ND< 379
2-Hexanone	ND< 379
4-Methyl-2-pentanone	ND< 379

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 379
Vinyl acetate	ND< 379

ELAP Number 10958 Method: EPA 8260B Data File: 60955.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provided additional information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Chruchville, NY

Client Job Number: 18119.01
Field Location: GP1 / 0-2'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7262

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/08/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 119	1,2,4-Trimethylbenzene	1,420
sec-Butylbenzene	ND< 119	1,3,5-Trimethylbenzene	458
tert-Butylbenzene	ND< 119		
n-Propylbenzene	123	**Miscellaneous**	
Isopropylbenzene	ND< 119	Methyl tert-butyl Ether	ND< 119
p-Isopropyltoluene	ND< 119		
Naphthalene	1,010		

ELAP Number 10958 Method: EPA 8260 Data File: 11644.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Chruchville, NY
Client Job Number: 18119.01
Field Location: GP3 / 4'-6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7263

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/09/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 7.96
Bromomethane	ND< 7.96
Bromoform	ND< 7.96
Carbon tetrachloride	ND< 7.96
Chloroethane	ND< 7.96
Chloromethane	ND< 7.96
2-Chloroethyl vinyl ether	ND< 7.96
Chloroform	ND< 7.96
Dibromochloromethane	ND< 7.96
1,1-Dichloroethane	ND< 7.96
1,2-Dichloroethane	ND< 7.96
1,1-Dichloroethene	ND< 7.96
cis-1,2-Dichloroethene	250
trans-1,2-Dichloroethene	ND< 7.96
1,2-Dichloropropane	ND< 7.96
cis-1,3-Dichloropropene	ND< 7.96
trans-1,3-Dichloropropene	ND< 7.96
Methylene chloride	ND< 19.9
1,1,2,2-Tetrachloroethane	ND< 7.96
Tetrachloroethene	211
1,1,1-Trichloroethane	ND< 7.96
1,1,2-Trichloroethane	ND< 7.96
Trichloroethene	260
Trichlorofluoromethane	ND< 7.96
Vinyl Chloride	ND< 7.96

Aromatics	Results in ug / Kg
Benzene	ND< 7.96
Chlorobenzene	ND< 7.96
Ethylbenzene	ND< 7.96
Toluene	ND< 7.96
m,p - Xylene	ND< 7.96
o - Xylene	ND< 7.96
Styrene	ND< 7.96
1,2-Dichlorobenzene	ND< 7.96
1,3-Dichlorobenzene	ND< 7.96
1,4-Dichlorobenzene	ND< 7.96

Ketones	Results in ug / Kg
Acetone	ND< 39.8
2-Butanone	ND< 19.9
2-Hexanone	ND< 19.9
4-Methyl-2-pentanone	ND< 19.9

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 19.9
Vinyl acetate	ND< 19.9

ELAP Number 10958
Method: EPA 8260B
Data File: 60956.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Chruchville, NY
Client Job Number: 18119.01
Field Location: GP3 / 4'-6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7263

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/08/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 10.2	1,2,4-Trimethylbenzene	ND< 10.2
sec-Butylbenzene	ND< 10.2	1,3,5-Trimethylbenzene	ND< 10.2
tert-Butylbenzene	ND< 10.2		
n-Propylbenzene	ND< 10.2	**Miscellaneous**	
Isopropylbenzene	ND< 10.2	Methyl tert-butyl Ether	ND< 10.2
p-Isopropyltoluene	ND< 10.2		
Naphthalene	40.8		

ELAP Number 10958 Method: EPA 8260 Data File: 11645.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Chruchville, NY
Client Job Number: 18119.01
Field Location: GP6 / 0-4'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7264

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/10/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 8.91
Bromomethane	ND< 8.91
Bromoform	ND< 8.91
Carbon tetrachloride	ND< 8.91
Chloroethane	ND< 8.91
Chloromethane	ND< 8.91
2-Chloroethyl vinyl ether	ND< 8.91
Chloroform	ND< 8.91
Dibromochloromethane	ND< 8.91
1,1-Dichloroethane	ND< 8.91
1,2-Dichloroethane	ND< 8.91
1,1-Dichloroethene	ND< 8.91
cis-1,2-Dichloroethene	ND< 8.91
trans-1,2-Dichloroethene	ND< 8.91
1,2-Dichloropropane	ND< 8.91
cis-1,3-Dichloropropene	ND< 8.91
trans-1,3-Dichloropropene	ND< 8.91
Methylene chloride	ND< 22.3
1,1,2,2-Tetrachloroethane	ND< 8.91
Tetrachloroethene	68.9
1,1,1-Trichloroethane	ND< 8.91
1,1,2-Trichloroethane	ND< 8.91
Trichloroethene	9.12
Trichlorofluoromethane	ND< 8.91
Vinyl Chloride	ND< 8.91

Aromatics	Results in ug / Kg
Benzene	ND< 8.91
Chlorobenzene	ND< 8.91
Ethylbenzene	ND< 8.91
Toluene	ND< 8.91
m,p - Xylene	ND< 8.91
o - Xylene	ND< 8.91
Styrene	ND< 8.91
1,2-Dichlorobenzene	ND< 8.91
1,3-Dichlorobenzene	ND< 8.91
1,4-Dichlorobenzene	ND< 8.91

Ketones	Results in ug / Kg
Acetone	ND< 44.5
2-Butanone	ND< 22.3
2-Hexanone	ND< 22.3
4-Methyl-2-pentanone	ND< 22.3

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 22.3
Vinyl acetate	ND< 22.3

ELAP Number 10958 Method: EPA 8260B Data File: 60996.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Chruchville, NY
Client Job Number: 18119.01
Field Location: GP6 / 0-4'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7264

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/10/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 8.91	1,2,4-Trimethylbenzene	ND< 8.91
sec-Butylbenzene	ND< 8.91	1,3,5-Trimethylbenzene	ND< 8.91
tert-Butylbenzene	ND< 8.91		
n-Propylbenzene	ND< 8.91	**Miscellaneous**	
Isopropylbenzene	ND< 8.91	Methyl tert-Butyl Ether	ND< 8.91
p-Isopropyltoluene	17.0		
Naphthalene	ND< 22.3		

ELAP Number 10958 Method: EPA 8260 Data File: 60996.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP-8 / 0'-4'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2013
Lab Sample Number: 7325

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 7.06
Bromomethane	ND< 7.06
Bromoform	ND< 7.06
Carbon tetrachloride	ND< 7.06
Chloroethane	ND< 7.06
Chloromethane	ND< 7.06
2-Chloroethyl vinyl ether	ND< 7.06
Chloroform	ND< 7.06
Dibromochloromethane	ND< 7.06
1,1-Dichloroethane	ND< 7.06
1,2-Dichloroethane	ND< 7.06
1,1-Dichloroethene	ND< 7.06
cis-1,2-Dichloroethene	7.53
trans-1,2-Dichloroethene	ND< 7.06
1,2-Dichloropropane	ND< 7.06
cis-1,3-Dichloropropene	ND< 7.06
trans-1,3-Dichloropropene	ND< 7.06
Methylene chloride	ND< 17.7
1,1,2,2-Tetrachloroethane	ND< 7.06
Tetrachloroethene	ND< 7.06
1,1,1-Trichloroethane	ND< 7.06
1,1,2-Trichloroethane	ND< 7.06
Trichloroethene	ND< 7.06
Trichlorofluoromethane	ND< 7.06
Vinyl Chloride	ND< 7.06

Aromatics	Results in ug / Kg
Benzene	ND< 7.06
Chlorobenzene	ND< 7.06
Ethylbenzene	ND< 7.06
Toluene	ND< 7.06
m,p - Xylene	ND< 7.06
o - Xylene	ND< 7.06
Styrene	ND< 7.06
1,2-Dichlorobenzene	ND< 7.06
1,3-Dichlorobenzene	ND< 7.06
1,4-Dichlorobenzene	ND< 7.06

Ketones	Results in ug / Kg
Acetone	ND< 35.3
2-Butanone	ND< 17.7
2-Hexanone	ND< 17.7
4-Methyl-2-pentanone	ND< 17.7

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 17.7
Vinyl acetate	ND< 17.7

ELAP Number 10958 Method: EPA 8260B Data File: 61040.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job Number: 18119.01
Field Location: GP-8 / 0'-4'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2013
Lab Sample Number: 7325

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 7.06	1,2,4-Trimethylbenzene	ND< 7.06
sec-Butylbenzene	ND< 7.06	1,3,5-Trimethylbenzene	ND< 7.06
tert-Butylbenzene	ND< 7.06		
n-Propylbenzene	ND< 7.06	**Miscellaneous**	
Isopropylbenzene	ND< 7.06	Methyl tert-Butyl Ether	ND< 7.06
p-Isopropyltoluene	ND< 7.06		
Naphthalene	ND< 17.7		

ELAP Number 10958

Method: EPA 8260

Data File: 61040.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job Number: 18119.01
Field Location: GP 9 / 0-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2018
Lab Sample Number: 7334

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 8.93
Bromomethane	ND< 8.93
Bromoform	ND< 8.93
Carbon tetrachloride	ND< 8.93
Chloroethane	ND< 8.93
Chloromethane	ND< 8.93
2-Chloroethyl vinyl ether	ND< 8.93
Chloroform	ND< 8.93
Dibromochloromethane	ND< 8.93
1,1-Dichloroethane	ND< 8.93
1,2-Dichloroethane	ND< 8.93
1,1-Dichloroethene	ND< 8.93
cis-1,2-Dichloroethene	ND< 8.93
trans-1,2-Dichloroethene	ND< 8.93
1,2-Dichloropropane	ND< 8.93
cis-1,3-Dichloropropene	ND< 8.93
trans-1,3-Dichloropropene	ND< 8.93
Methylene chloride	ND< 22.3
1,1,2,2-Tetrachloroethane	ND< 8.93
Tetrachloroethene	ND< 8.93
1,1,1-Trichloroethane	ND< 8.93
1,1,2-Trichloroethane	ND< 8.93
Trichloroethene	ND< 8.93
Trichlorofluoromethane	ND< 8.93
Vinyl Chloride	ND< 8.93

ELAP Number 10958

Aromatics	Results in ug / Kg
Benzene	ND< 8.93
Chlorobenzene	ND< 8.93
Ethylbenzene	ND< 8.93
Toluene	ND< 8.93
m,p - Xylene	ND< 8.93
o - Xylene	ND< 8.93
Styrene	ND< 8.93
1,2-Dichlorobenzene	ND< 8.93
1,3-Dichlorobenzene	ND< 8.93
1,4-Dichlorobenzene	ND< 8.93

Ketones	Results in ug / Kg
Acetone	ND< 44.7
2-Butanone	ND< 22.3
2-Hexanone	ND< 22.3
4-Methyl-2-pentanone	ND< 22.3

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 22.3
Vinyl acetate	ND< 22.3

Method: EPA 8260B

Data File: 61043.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody [illegible]

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job Number: 18119.01
Field Location: GP 9 / 0-2
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2018
Lab Sample Number: 7334

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 8.93	1,2,4-Trimethylbenzene	ND< 8.93
sec-Butylbenzene	ND< 8.93	1,3,5-Trimethylbenzene	ND< 8.93
tert-Butylbenzene	ND< 8.93		
n-Propylbenzene	ND< 8.93	**Miscellaneous**	
Isopropylbenzene	ND< 8.93	Methyl tert-Butyl Ether	ND< 8.93
p-Isopropyltoluene	ND< 8.93		
Naphthalene	ND< 22.3		

ELAP Number 10958 Method: EPA 8260 Data File: 61043.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger, Technical Director

Chain of Custody provided

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP 10 / 4-6
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2018
Lab Sample Number: 7335

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/12/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 8.23
Bromomethane	ND< 8.23
Bromoform	ND< 8.23
Carbon tetrachloride	ND< 8.23
Chloroethane	ND< 8.23
Chloromethane	ND< 8.23
2-Chloroethyl vinyl ether	ND< 8.23
Chloroform	ND< 8.23
Dibromochloromethane	ND< 8.23
1,1-Dichloroethane	ND< 8.23
1,2-Dichloroethane	ND< 8.23
1,1-Dichloroethene	ND< 8.23
cis-1,2-Dichloroethene	136
trans-1,2-Dichloroethene	ND< 8.23
1,2-Dichloropropane	ND< 8.23
cis-1,3-Dichloropropene	ND< 8.23
trans-1,3-Dichloropropene	ND< 8.23
Methylene chloride	ND< 20.6
1,1,2,2-Tetrachloroethane	ND< 8.23
Tetrachloroethene	55.1
1,1,1-Trichloroethane	ND< 8.23
1,1,2-Trichloroethane	ND< 8.23
Trichloroethene	10.0
Trichlorofluoromethane	ND< 8.23
Vinyl Chloride	ND< 8.23

Aromatics	Results in ug / Kg
Benzene	ND< 8.23
Chlorobenzene	ND< 8.23
Ethylbenzene	60.4
Toluene	129
m,p - Xylene	254
o - Xylene	188
Styrene	ND< 8.23
1,2-Dichlorobenzene	ND< 8.23
1,3-Dichlorobenzene	ND< 8.23
1,4-Dichlorobenzene	ND< 8.23

Ketones	Results in ug / Kg
Acetone	161
2-Butanone	ND< 20.6
2-Hexanone	ND< 20.6
4-Methyl-2-pentanone	ND< 20.6

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 20.6
Vinyl acetate	ND< 20.6

ELAP Number 10958 Method: EPA 8260B Data File: 61025.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP 10 / 4-6
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2018
Lab Sample Number: 7335

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/12/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 8.23	1,2,4-Trimethylbenzene	654
sec-Butylbenzene	ND< 8.23	1,3,5-Trimethylbenzene	162
tert-Butylbenzene	ND< 8.23		
n-Propylbenzene	42.7	**Miscellaneous**	
Isopropylbenzene	10.2	Methyl tert-Butyl Ether	ND< 8.23
p-Isopropyltoluene	31.5		
Naphthalene	336		

ELAP Number 10958 Method: EPA 8260 Data File: 61025.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP-13 / 4'-5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2013
Lab Sample Number: 7326

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 6.41
Bromomethane	ND< 6.41
Bromoform	ND< 6.41
Carbon tetrachloride	ND< 6.41
Chloroethane	ND< 6.41
Chloromethane	ND< 6.41
2-Chloroethyl vinyl ether	ND< 6.41
Chloroform	ND< 6.41
Dibromochloromethane	ND< 6.41
1,1-Dichloroethane	ND< 6.41
1,2-Dichloroethane	ND< 6.41
1,1-Dichloroethene	ND< 6.41
cis-1,2-Dichloroethene	ND< 6.41
trans-1,2-Dichloroethene	ND< 6.41
1,2-Dichloropropane	ND< 6.41
cis-1,3-Dichloropropene	ND< 6.41
trans-1,3-Dichloropropene	ND< 6.41
Methylene chloride	ND< 16.0
1,1,2,2-Tetrachloroethane	ND< 6.41
Tetrachloroethene	ND< 6.41
1,1,1-Trichloroethane	ND< 6.41
1,1,2-Trichloroethane	ND< 6.41
Trichloroethene	ND< 6.41
Trichlorofluoromethane	ND< 6.41
Vinyl Chloride	ND< 6.41

Aromatics	Results in ug / Kg
Benzene	ND< 6.41
Chlorobenzene	ND< 6.41
Ethylbenzene	8.37
Toluene	6.70
m,p - Xylene	20.4
o - Xylene	20.4
Styrene	ND< 6.41
1,2-Dichlorobenzene	ND< 6.41
1,3-Dichlorobenzene	ND< 6.41
1,4-Dichlorobenzene	ND< 6.41

Ketones	Results in ug / Kg
Acetone	66.4
2-Butanone	ND< 16.0
2-Hexanone	ND< 16.0
4-Methyl-2-pentanone	ND< 16.0

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 16.0
Vinyl acetate	ND< 16.0

ELAP Number 10958 Method: EPA 8260B Data File: 61041.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Soils/Solids/Sludges (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job Number: 18119.01
Field Location: GP-13 / 4'-5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2013
Lab Sample Number: 7326

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Aromatics	Results in ug / Kg	Aromatics	Results in ug / Kg
n-Butylbenzene	ND< 6.41	1,2,4-Trimethylbenzene	114
sec-Butylbenzene	ND< 6.41	1,3,5-Trimethylbenzene	19.4
tert-Butylbenzene	ND< 6.41		
n-Propylbenzene	8.01	**Miscellaneous**	
Isopropylbenzene	ND< 6.41	Methyl tert-Butyl Ether	ND< 6.41
p-Isopropyltoluene	ND< 6.41		
Naphthalene	39.7		

ELAP Number 10958 Method: EPA 8260 Data File: 61041.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP1 / 0-2'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7262

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/08/2002

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 324
Anthracene	ND< 324
Benzo (a) anthracene	ND< 324
Benzo (a) pyrene	ND< 324
Benzo (b) fluoranthene	ND< 324
Benzo (g,h,i) perylene	ND< 324
Benzo (k) fluoranthene	ND< 324
Chrysene	ND< 324
Dibenz (a,h) anthracene	ND< 324
Fluoranthene	468
Fluorene	ND< 324
Indeno (1,2,3-cd) pyrene	ND< 324
Naphthalene	1,150
Phenanthrene	648
Pyrene	401

ELAP Number 10958 Method: EPA 8270D Data File: 5148.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP1 / 0-2'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7262

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/10/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Alkyl Benzene	N/A	8.06	655	N/A
3-Phenyl-3-Pentene	1000118-15-1	8.71	583	90
Alkyl -1H-Indene	N/A	8.84	518	N/A
Alkyl Hydrocarbon	N/A	9.05	543	N/A
Unknown Hydrocarbon	N/A	9.37	1,180	N/A
Alkyl Naphthalene	N/A	10.01	768	N/A
Alkyl Naphthalene	N/A	10.11	763	N/A
Alkyl Naphthalene	N/A	10.26	512	N/A
Unknown Hydrocarbon	N/A	10.79	703	N/A
Alkyl Hydrocarbon	N/A	11.28	1,210	N/A
Alkyl Hydrocarbon	N/A	11.59	1,790	N/A
Alkyl Hydrocarbon	N/A	12.15	1,730	N/A
Alkyl Hydrocarbon	N/A	12.18	1,450	N/A
Alkyl Hydrocarbon	N/A	12.67	3,040	N/A
Alkyl Hydrocarbon	N/A	12.88	1,580	N/A
Alkyl Hydrocarbon	N/A	13.00	1,010	N/A
Alkyl Hydrocarbon	N/A	13.04	745	N/A
Alkyl Hydrocarbon	N/A	13.19	3,270	N/A
Alkyl Hydrocarbon	N/A	13.56	3,570	N/A
Alkyl Hydrocarbon	N/A	13.71	4,120	N/A

ELAP Number 10958 Method: EPA 8270D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
N/A = Not Applicable

Signature:
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP3 / 4'-6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7263

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/08/2002

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 308
Anthracene	ND< 308
Benzo (a) anthracene	ND< 308
Benzo (a) pyrene	ND< 308
Benzo (b) fluoranthene	ND< 308
Benzo (g,h,i) perylene	ND< 308
Benzo (k) fluoranthene	ND< 308
Chrysene	ND< 308
Dibenz (a,h) anthracene	ND< 308
Fluoranthene	ND< 308
Fluorene	ND< 308
Indeno (1,2,3-cd) pyrene	ND< 308
Naphthalene	ND< 308
Phenanthrene	ND< 308
Pyrene	ND< 308

ELAP Number 10958 Method: EPA 8270D Data File: 5149.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody Records Attached

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP3 / 4'-6'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7263

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/09/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Alkyl Hydrocarbon	N/A	18.29	465	N/A

ELAP Number 10958

Method: EPA 8270D

Comments:
ND denotes Non Detect
ug / Kg = microgram per Kilogram
N/A = Not Applicable

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP6 / 0-4'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7164

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/08/2002

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 316
Anthracene	ND< 316
Benzo (a) anthracene	ND< 316
Benzo (a) pyrene	ND< 316
Benzo (b) fluoranthene	ND< 316
Benzo (g,h,i) perylene	ND< 316
Benzo (k) fluoranthene	ND< 316
Chrysene	ND< 316
Dibenz (a,h) anthracene	ND< 316
Fluoranthene	ND< 316
Fluorene	ND< 316
Indeno (1,2,3-cd) pyrene	ND< 316
Naphthalene	ND< 316
Phenanthrene	ND< 316
Pyrene	ND< 316

ELAP Number 10958 Method: EPA 8270D Data File: 5150.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provided additional lab(s) information ...

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP6 / 0-4'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-1988
Lab Sample Number: 7264

Date Sampled: 08/07/2002
Date Received: 08/07/2002
Date Analyzed: 08/09/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Alkyl Benzene	N/A	6.95	2,340	N/A
Alkyl Hydrocarbon	N/A	10.39	888	N/A
Alkyl Hydrocarbon	N/A	11.01	875	N/A
Alkyl Hydrocarbon	N/A	11.28	402	N/A
Unknown Hydrocarbon	N/A	11.95	327	N/A
Alkyl Phenol	N/A	11.99	437	N/A
Alkyl Hydrocarbon	N/A	12.14	792	N/A
Alkyl Hydrocarbon	N/A	12.67	497	N/A
p-tert-Amyl Phenoxy Ethanol	6382-07-6	13.09	425	70
Unknown Hydrocarbon	N/A	13.12	737	N/A
Alkyl Hydrocarbon	N/A	13.17	765	N/A
p-tert-Amyl Phenoxy Ethanol	6382-07-6	13.34	545	N/A
Unknown Hydrocarbon	N/A	18.28	538	N/A

ELAP Number 10958

Method: EPA 8270D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
N/A = Not Applicable

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP 10 / 4-6
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2018
Lab Sample Number: 7335

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 321
Anthracene	ND< 321
Benzo (a) anthracene	ND< 321
Benzo (a) pyrene	ND< 321
Benzo (b) fluoranthene	ND< 321
Benzo (g,h,i) perylene	ND< 321
Benzo (k) fluoranthene	ND< 321
Chrysene	396
Dibenz (a,h) anthracene	ND< 321
Fluoranthene	933
Fluorene	ND< 321
Indeno (1,2,3-cd) pyrene	ND< 321
Naphthalene	1,160
Phenanthrene	775
Pyrene	643

ELAP Number 10958 Method: EPA 8270D Data File: 5212.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job Number: 18119.01
Field Location: GP 10 / 4-6
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2018
Lab Sample Number: 7335

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
Alkyl Benzene	N/A	7.79	345	N/A
Unknown Hydrocarbon	N/A	8.71	581	N/A
Alkyl 1H-Indene	N/A	8.84	565	N/A
Alkyl Hydrocarbon	N/A	9.05	518	N/A
n-Methyl Naphthalene	N/A	9.37	1,140	N/A
n,n'-Dimethyl Naphthalene	N/A	10.01	834	N/A
Alkyl Hydrocarbon	N/A	11.01	732	N/A
Alkyl Hydrocarbon	N/A	11.28	1,310	N/A
Alkyl Hydrocarbon	N/A	11.59	1,850	N/A
n-Methyl 9H-Fluorene	N/A	11.87	787	N/A
Alkyl Hydrocarbon	N/A	12.15	1,790	N/A
Alkyl Hyrdocarbon	N/A	12.18	1,500	N/A
Alkyl Hyrdocarbon	N/A	12.62	501	N/A
Alkyl Hyrdocarbon	N/A	12.67	3,160	N/A
Alkyl Hyrdocarbon	N/A	12.88	1,650	N/A
n-methyl Phenanthrene	N/A	13.00	1,070	N/A
Unknown Hydrocarbon	N/A	13.04	1,080	N/A
Alkyl Hydrocarbon	N/A	13.19	3,450	N/A
Alkyl Hydrocarbon	N/A	13.56	4,740	N/A
Alkyl Hydrocarbon	N/A	13.71	4,430	N/A

ELAP Number 10958

Method: EPA 8270D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
N/A = Not Applicable

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile STARS Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site: Churchville, NY
Client Job Number: 18119.01
Field Location: GP-13 / 4'-5'
Field ID Number: N/A
Sample Type: Soil

Lab Project Number: 02-2013
Lab Sample Number: 7326

Date Sampled: 08/08/2002
Date Received: 08/09/2002
Date Analyzed: 08/13/2002

Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 309
Anthracene	ND< 309
Benzo (a) anthracene	ND< 309
Benzo (a) pyrene	ND< 309
Benzo (b) fluoranthene	489
Benzo (g,h,i) perylene	ND< 309
Benzo (k) fluoranthene	ND< 309
Chrysene	426
Dibenz (a,h) anthracene	ND< 309
Fluoranthene	518
Fluorene	ND< 309
Indeno (1,2,3-cd) pyrene	ND< 309
Naphthalene	ND< 309
Phenanthrene	ND< 309
Pyrene	589

ELAP Number 10958 Method: EPA 8270D Data File: 5211.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Sear-Brown

Client Job Site:	Churchville, NY	**Lab Project Number:**	02-2013
		Lab Sample Number:	7325
Client Job Number:	18119.01		
Field Location:	GP-13 / 4'-5'	**Date Sampled:**	08/08/2002
Field ID Number:	N/A	**Date Received:**	08/09/2002
Sample Type:	Soil	**Date Analyzed:**	08/13/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / Kg	Percent Fit
None Found	N/A	N/A	ND< 324	N/A

ELAP Number 10958

Method: EPA 8270D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram
N/A = Not Applicable

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
Environmental Services, Inc. 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: GP1/0-2"
Field ID No.: N/A

Lab Project No.: 02-1988
Lab Sample No.: 7262

Sample Type: Soil

Date Sampled: 08/07/2002
Date Received: 08/07/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Ethylene Glycol	08/12/2002	EPA 8015	ND<10
Propylene Glycol	08/12/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional information.

File ID:VARPAR02-1988-1

PARADIGM
Environmental Services, Inc. 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: GP3/4-6"
Field ID No.: N/A

Lab Project No.: 02-1988
Lab Sample No.: 7263

Sample Type: Soil

Date Sampled: 08/07/2002
Date Received: 08/07/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Ethylene Glycol	08/12/2002	EPA 8015	ND<10
Propylene Glycol	08/12/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional information.

File ID:VARPAR02-1988-2

PARADIGM
Environmental Services, Inc. 179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716- 647-3311

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: GP6/0-4"
Field ID No.: N/A

Lab Project No.: 02-1988
Lab Sample No.: 7264

Sample Type: Soil

Date Sampled: 08/07/2002
Date Received: 08/07/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Ethylene Glycol	08/12/2002	EPA 8015	ND<10
Propylene Glycol	08/12/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By: _____
Bruce Hoogesteger, Technical Director

Chain of Custody provides additional information.

File ID:VARPAR02-1988-3

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: GP 10/4-6

Lab Project No.: 02-2018
Lab Sample No.: 7335

Sample Type: Soil

Date Sampled: 08/08/2002
Date Received: 08/09/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Ethylene Glycol	08/12/2002	EPA 8015	ND<10
Propylene Glycol	08/12/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: [illegible]

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: GP13/4-5'

Lab Project No.: 02-2013
Lab Sample No.: 7326

Sample Type: Soil

Date Sampled: 08/08/2002
Date Received: 08/09/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Ethylene Glycol	08/12/2002	EPA 8015	ND<10
Propylene Glycol	08/12/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: [illegible]

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Stearns [illegible]	COMPANY:	Same
ADDRESS:	[illegible] Main St. [illegible]	ADDRESS:	
CITY:	Rochester	CITY:	
STATE:	NY	STATE:	
ZIP:	14623	ZIP:	
PHONE:	475-1440	PHONE:	
FAX:	424 5951	FAX:	
ATTN:	Bill Gr[illegible]man	ATTN:	

COMMENTS: strong odor [illegible] soils

LAB PROJECT #: 02-1988

CLIENT PROJECT #: 18119.01

TURNAROUND TIME: (WORKING DAYS): ☐ 1 ☒ 2 ☐ 3 ☐ 5 (STD) ☐ OTHER

PROJECT NAME/SITE NAME: Churchville, NY

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL/STARS VOCs	[illegible]	[illegible]	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	8/7/02	9:20		X	GP1 / 0 - 2'	Soil		X	X	X		7262
2	8/7/02	11:40		X	GP3 / 4 - 6'	Soil		X	X	X	~~strong~~ Mean odor	7265
3	8/7/02	16:00		X	GP6 / 0 - 4'	Soil		X	X	X	strong odor	7264
4												
5												
6												
7												
8												
9												
10												

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:

CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 17°C

Sampled By: Kyle R. Miller	Date/Time: 8/7/02
Relinquished By: Kyle R. Miller	Date/Time: 8/7/02
Received By: [illegible]	Date/Time: 8/7/02 [illegible]
Relinquished By:	Date/Time:
Received By:	Date/Time:
Received @ Lab By: [illegible]	Date/Time: 8/7/02 [illegible]

Total Cost:

P.I.F.

ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:
COMPANY: SEAR BROWN
ADDRESS: 85 METRO PARK
CITY: ROCHESTER STATE: NY ZIP: 14623
PHONE: 475-1440 FAX: 424 5951
ATTN: BILL GOODMAN
COMMENTS: ODORS WITH SAMPLES

INVOICE TO:
COMPANY: SAME
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 02-2013
CLIENT PROJECT #: 18119.01

TURNAROUND TIME: (WORKING DAYS)
☐ 1 ☒ 2 ☐ 3 ☐ 5 (STD) ☐ OTHER

PROJECT NAME/SITE NAME: Churchville, NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL/STARS VOCs EPA 8260	SVOCs + TICs / STARS EPA 8270	GLYCOLS EPA 8015								REMARKS	PARADIGM LAB SAMPLE NUMBER
8/8/02	9:20		X	GP-8 / 0-4'	SOIL	2	X										odor	7325
8/8/02	14:15		X	GP-13 / 4'-5'	SOIL	2	X	X	X								strong odor	7326

(STARS) →

LAB USE ONLY
SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: ☐ PRESERVATIONS: ☐ HOLDING TIME: ☐ TEMPERATURE: ☐ 18°C iced

Sampled By: Kyle R. Miller Date/Time: 8/8/02
Relinquished By: [signature] Date/Time: 8/8/02
Received By: [signature] Date/Time: 8/8/02 16:35

Relinquished By: Date/Time:
Received By: Date/Time:
Received @ Lab By: [signature] Date/Time: 8/9/02 12:30

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(716) 647-2530 * (800) 724-1997
FAX: (716) 647-3311

CHAIN OF CUSTODY

REPORT TO:
COMPANY: SEAR BROWN
ADDRESS: 85 METRO PARK
CITY: ROCHESTER STATE: NY ZIP: 14623
PHONE: 475-1440 FAX: 424-5951
ATTN: BILL GOODMAN
COMMENTS: odors with soils

INVOICE TO:
COMPANY: SAME
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 02-2018
CLIENT PROJECT #: 18119.01

TURNAROUND TIME: (WORKING DAYS)
☐ 1 ☒ 2 ☐ 3 STD ☐ 5 OTHER ☐

PROJECT NAME/SITE NAME: Churchville, NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL/STARS VOCS EPA 8260	STARS SVBNS + TICS EPA 8270	GLYCOLS EPA 8015	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/8/02	11:15		X	GP9/0-2	soil	2	X			slight odor	7331
8/8/02	11:40		X	GP10/4-6	soil	2	X	X	X	odor	7335

LAB USE ONLY
SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: ☑ PRESERVATIONS: ☑ HOLDING TIME: ☑ TEMPERATURE: ☐ iced n/c

Sampled By: Kyle R. Miller Date/Time: 8/8/02
Relinquished By: [signature] Date/Time: 8/9/02
Received By: [signature] Date/Time: 8/9/02, 15:00

Relinquished By: Date/Time:
Received By: Date/Time:
Received @ Lab By: [signature] Date/Time: 8/9/02 1550

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site: N/A

Client Job Number: 18119.01
Field Location: MW 1
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7388

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 4.00
Bromomethane	ND< 4.00
Bromoform	ND< 4.00
Carbon tetrachloride	ND< 4.00
Chloroethane	ND< 4.00
Chloromethane	ND< 4.00
2-Chloroethyl vinyl ether	ND< 4.00
Chloroform	ND< 4.00
Dibromochloromethane	ND< 4.00
1,1-Dichloroethane	23.7
1,2-Dichloroethane	ND< 4.00
1,1-Dichloroethene	ND< 4.00
cis-1,2-Dichloroethene	366
trans-1,2-Dichloroethene	ND< 4.00
1,2-Dichloropropane	ND< 4.00
cis-1,3-Dichloropropene	ND< 4.00
trans-1,3-Dichloropropene	ND< 4.00
Methylene chloride	ND< 10.0
1,1,2,2-Tetrachloroethane	ND< 4.00
Tetrachloroethene	ND< 4.00
1,1,1-Trichloroethane	6.94
1,1,2-Trichloroethane	ND< 4.00
Trichloroethene	38.8
Trichlorofluoromethane	ND< 4.00
Vinyl Chloride	ND< 4.00

ELAP Number 10958

Aromatics	Results in ug / L
Benzene	3.39
Chlorobenzene	ND< 4.00
Ethylbenzene	ND< 4.00
Toluene	24.4
m,p - Xylene	16.6
o - Xylene	23.1
Styrene	ND< 4.00
1,2-Dichlorobenzene	ND< 4.00
1,3-Dichlorobenzene	ND< 4.00
1,4-Dichlorobenzene	ND< 4.00

Ketones	Results in ug / L
Acetone	ND< 20.0
2-Butanone	ND< 10.0
2-Hexanone	ND< 10.0
4-Methyl-2-pentanone	10.2

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 10.0
Vinyl acetate	ND< 10.0

Method: EPA 8260B

Data File: 61117.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: N/A

Client Job Number: 18119.01
Field Location: MW 1
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7388

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 2.00	1,2,4-Trimethylbenzene	17.1
sec-Butylbenzene	ND< 2.00	1,3,5-Trimethylbenzene	6.71
tert-Butylbenzene	ND< 2.00		
n-Propylbenzene	ND< 2.00	**Miscellaneous**	
Isopropylbenzene	ND< 2.00	Methyl tert-Butyl Ether	64.7
p-Isopropyltoluene	ND< 2.00		
Naphthalene	24.3		

ELAP Number 10958 Method: EPA 8260 Data File: 61102.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site: N/A

Client Job Number: 18119.01
Field Location: MW 3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7386

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 200
Bromomethane	ND< 200
Bromoform	ND< 200
Carbon tetrachloride	ND< 200
Chloroethane	ND< 200
Chloromethane	ND< 200
2-Chloroethyl vinyl ether	ND< 200
Chloroform	ND< 200
Dibromochloromethane	ND< 200
1,1-Dichloroethane	ND< 200
1,2-Dichloroethane	ND< 200
1,1-Dichloroethene	ND< 200
cis-1,2-Dichloroethene	8,680
trans-1,2-Dichloroethene	ND< 200
1,2-Dichloropropane	ND< 200
cis-1,3-Dichloropropene	ND< 200
trans-1,3-Dichloropropene	ND< 200
Methylene chloride	ND< 500
1,1,2,2-Tetrachloroethane	ND< 200
Tetrachloroethene	3,370
1,1,1-Trichloroethane	ND< 200
1,1,2-Trichloroethane	ND< 200
Trichloroethene	5,950
Trichlorofluoromethane	ND< 200
Vinyl Chloride	ND< 200

Aromatics	Results in ug / L
Benzene	ND< 70.0
Chlorobenzene	ND< 200
Ethylbenzene	ND< 200
Toluene	ND< 200
m,p - Xylene	ND< 200
o - Xylene	ND< 200
Styrene	ND< 200
1,2-Dichlorobenzene	ND< 200
1,3-Dichlorobenzene	ND< 200
1,4-Dichlorobenzene	ND< 200

Ketones	Results in ug / L
Acetone	ND< 1,000
2-Butanone	ND< 500
2-Hexanone	ND< 500
4-Methyl-2-pentanone	ND< 500

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 500
Vinyl acetate	ND< 500

ELAP Number 10958

Method: EPA 8260B

Data File: 61118.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: N/A

Client Job Number: 18119.01
Field Location: MW 3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7386

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 2.00	1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00	1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00		
n-Propylbenzene	ND< 2.00	**Miscellaneous**	
Isopropylbenzene	ND< 2.00	Methyl tert-Butyl Ether	10.8
p-Isopropyltoluene	ND< 2.00		
Naphthalene	ND< 5.00		

ELAP Number 10958 Method: EPA 8260 Data File: 61100.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site: N/A

Client Job Number: 18119.01
Field Location: MW 6
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7385

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00
Bromomethane	ND< 2.00
Bromoform	ND< 2.00
Carbon tetrachloride	ND< 2.00
Chloroethane	ND< 2.00
Chloromethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00
Chloroform	ND< 2.00
Dibromochloromethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	8.40
trans-1,2-Dichloroethene	ND< 2.00
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Methylene chloride	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	47.7
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	24.8
Trichlorofluoromethane	ND< 2.00
Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L
Benzene	ND< 0.700
Chlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00
Toluene	ND< 2.00
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958

Method: EPA 8260B

Data File: 61099.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provided

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site: N/A

Client Job Number: 18119.01
Field Location: MW 6
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7385

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 2.00	1,2,4-Trimethylbenzene	ND< 2.00
sec-Butylbenzene	ND< 2.00	1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00		
n-Propylbenzene	ND< 2.00	**Miscellaneous**	
Isopropylbenzene	ND< 2.00	Methyl tert-Butyl Ether	ND< 2.00
p-Isopropyltoluene	ND< 2.00		
Naphthalene	ND< 5.00		

ELAP Number 10958 Method: EPA 8260 Data File: 61099.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site: N/A
Client Job Number: 18119.01
Field Location: MW 13
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7387
Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/15/2002

Halocarbons	Results in ug / L
Bromodichloromethane	ND< 2.00
Bromomethane	ND< 2.00
Bromoform	ND< 2.00
Carbon tetrachloride	ND< 2.00
Chloroethane	ND< 2.00
Chloromethane	ND< 2.00
2-Chloroethyl vinyl ether	ND< 2.00
Chloroform	ND< 2.00
Dibromochloromethane	ND< 2.00
1,1-Dichloroethane	ND< 2.00
1,2-Dichloroethane	ND< 2.00
1,1-Dichloroethene	ND< 2.00
cis-1,2-Dichloroethene	7.07
trans-1,2-Dichloroethene	ND< 2.00
1,2-Dichloropropane	ND< 2.00
cis-1,3-Dichloropropene	ND< 2.00
trans-1,3-Dichloropropene	ND< 2.00
Methylene chloride	ND< 5.00
1,1,2,2-Tetrachloroethane	ND< 2.00
Tetrachloroethene	ND< 2.00
1,1,1-Trichloroethane	ND< 2.00
1,1,2-Trichloroethane	ND< 2.00
Trichloroethene	ND< 2.00
Trichlorofluoromethane	ND< 2.00
Vinyl Chloride	ND< 2.00

Aromatics	Results in ug / L
Benzene	ND< 0.700
Chlorobenzene	ND< 2.00
Ethylbenzene	ND< 2.00
Toluene	ND< 2.00
m,p - Xylene	ND< 2.00
o - Xylene	ND< 2.00
Styrene	ND< 2.00
1,2-Dichlorobenzene	ND< 2.00
1,3-Dichlorobenzene	ND< 2.00
1,4-Dichlorobenzene	ND< 2.00

Ketones	Results in ug / L
Acetone	ND< 10.0
2-Butanone	ND< 5.00
2-Hexanone	ND< 5.00
4-Methyl-2-pentanone	ND< 5.00

Miscellaneous	Results in ug / L
Carbon disulfide	ND< 5.00
Vinyl acetate	ND< 5.00

ELAP Number 10958 Method: EPA 8260B Data File: 61116.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022039V3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Non-potable Water (Additional STARS Compounds)

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7387
Client Job Number:	18119.01		
Field Location:	MW 13	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/15/2002

Aromatics	Results in ug / L	Aromatics	Results in ug / L
n-Butylbenzene	ND< 2.00	1,2,4-Trimethylbenzene	5.43
sec-Butylbenzene	ND< 2.00	1,3,5-Trimethylbenzene	ND< 2.00
tert-Butylbenzene	ND< 2.00		
n-Propylbenzene	ND< 2.00	**Miscellaneous**	
Isopropylbenzene	ND< 2.00	Methyl tert-Butyl Ether	ND< 2.00
p-Isopropyltoluene	ND< 2.00		
Naphthalene	7.06		

ELAP Number 10958 Method: EPA 8260 Data File: 61116.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022039V7.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site: N/A
Client Job Number: 18119.01
Field Location: MW 1
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7388

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/14/2002

Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0
Anthracene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Chrysene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Fluoranthene	ND< 10.0
Fluorene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0
Naphthalene	10.7
Phenanthrene	ND< 10.0
Pyrene	ND< 10.0

ELAP Number 10958 Method: EPA 8270D Data File: 5226.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7388
Client Job Number:	18119.01		
Field Location:	MW 1	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/14/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
Alkyl Hydrocarbon	N/A	7.00	12.9	N/A
Unknown Hydrocarbon	N/A	8.95	10.4	N/A
Alkyl Hydrocarbon	N/A	10.62	10.5	N/A
Unknown Hydrocarbon	N/A	12.03	11.2	N/A
Unknown Hydrocarbon	N/A	12.28	14.9	N/A

ELAP Number 10958

Method: EPA 8270D

Comments:
ND denotes Non Detect
ug / L = microgram per Liter
N/A = Not Applicable

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: [illegible]

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site: N/A
Client Job Number: 18119.01
Field Location: MW 3
Field ID Number: N/A
Sample Type: Water

Lab Project Number: 02-2039
Lab Sample Number: 7386

Date Sampled: 08/12/2002
Date Received: 08/13/2002
Date Analyzed: 08/14/2002

Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0
Anthracene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Chrysene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Fluoranthene	ND< 10.0
Fluorene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0
Naphthalene	ND< 10.0
Phenanthrene	ND< 10.0
Pyrene	ND< 10.0

ELAP Number 10958 Method: EPA 8270D Data File: 5228.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7386
Client Job Number:	18119.01		
Field Location:	MW 3	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/14/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 10.0	N/A

ELAP Number 10958 Method: EPA 8270D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
N/A = Not Applicable

Signature: _____
Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022039U2.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7385
Client Job Number:	18119.01		
Field Location:	MW 6	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/14/2002

Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0
Anthracene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Chrysene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Fluoranthene	ND< 10.0
Fluorene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0
Naphthalene	ND< 10.0
Phenanthrene	ND< 10.0
Pyrene	ND< 10.0

ELAP Number 10958 Method: EPA 8270D Data File: 5227.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022039P1.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7385
Client Job Number:	18119.01		
Field Location:	MW 6	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/14/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 10.0	N/A

ELAP Number 10958

Method: EPA 8270D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
N/A = Not Applicable

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile STARS Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7387
Client Job Number:	18119.01		
Field Location:	MW 13	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/14/2002

Base / Neutrals	Results in ug / L
Acenaphthene	ND< 10.0
Anthracene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Chrysene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Fluoranthene	ND< 10.0
Fluorene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0
Naphthalene	ND< 10.0
Phenanthrene	ND< 10.0
Pyrene	ND< 10.0

ELAP Number 10958 Method: EPA 8270D Data File: 5229.D

Comments: ND denotes Non Detect
ug / L = microgram per Liter

Signature:

Bruce Hoogesteger: Technical Director

Chain of Custody provides additional sample information

File ID: 022039S3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Semi -Volatile Analysis Report for Non-potable Water

Client: Sear-Brown

Client Job Site:	N/A	**Lab Project Number:**	02-2039
		Lab Sample Number:	7387
Client Job Number:	18119.01		
Field Location:	MW 13	**Date Sampled:**	08/12/2002
Field ID Number:	N/A	**Date Received:**	08/13/2002
Sample Type:	Water	**Date Analyzed:**	08/14/2002

Tentatively Identified Compounds	CAS Number	Retention Time	Results in ug / L	Percent Fit
None Found	N/A	N/A	ND< 10.0	N/A

ELAP Number 10958

Method: EPA 8270D

Comments: ND denotes Non Detect
ug / L = microgram per Liter
N/A = Not Applicable

Signature:

Bruce Hoogesteger, Technical Director

Chain of Custody provides additional sample information

File ID: 022039U3.XLS

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: MW-1

Lab Project No.: 02-2039
Lab Sample No.: 7388

Sample Type: Water

Date Sampled: 08/12/2002
Date Received: 08/13/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Ethylene Glycol	08/14/2002	EPA 8015	ND<10
Propylene Glycol	08/14/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____

Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: VarPar02-2039-4

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: MW-3

Lab Project No.: 02-2039
Lab Sample No.: 7386

Sample Type: Water

Date Sampled: 08/12/2002
Date Received: 08/13/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Ethylene Glycol	08/14/2002	EPA 8015	ND<10
Propylene Glycol	08/14/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: VarPar02-2039-2

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

ient: Sear-Brown

ient Job Site: Churchville, NY

ient Job No.: 18119.01

eld Location: MW-6

Lab Project No.: 02-2039
Lab Sample No.: 7385

Sample Type: Water

Date Sampled: 08/12/2002
Date Received: 08/13/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Ethylene Glycol	08/14/2002	EPA 8015	ND<10
Propylene Glycol	08/14/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

mments: ND denotes Non Detected.

proved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: VarPar02-2039

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue Rochester New York 14608 (716) 647-2530 FAX (716) 647-3311

LABORATORY REPORT OF ANALYSIS

Client: Sear-Brown

Client Job Site: Churchville, NY

Client Job No.: 18119.01

Field Location: MW-13

Lab Project No.: 02-2039
Lab Sample No.: 7387

Sample Type: Water

Date Sampled: 08/12/2002
Date Received: 08/13/2002

Parameter	Date Analyzed	Analytical Method	Result (mg/l)
Ethylene Glycol	08/14/2002	EPA 8015	ND<10
Propylene Glycol	08/14/2002	EPA 8015	ND<10

ELAP ID.No.: 10709

Comments: ND denotes Non Detected.

Approved By Technical Director: _____
Bruce Hoogesteger

Chain of Custody provides additional sample information.

File ID: VarPar02-2039-3

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:

COMPANY: Stair Brown
ADDRESS: 85 Metro Park
CITY: Rochester STATE: NY ZIP: 14623
PHONE: 475-1440 FAX: 424-5951
ATTN: Bill Goodman
COMMENTS: product in MW 1 sample

INVOICE TO:

COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN:

LAB PROJECT #: 02-2039
CLIENT PROJECT #: 1819.01

TURNAROUND TIME: (WORKING DAYS)
☐ 1 ☒ 2 ☐ 3 ☐ 5 (STD) ☐ OTHER

PROJECT NAME/SITE NAME:

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL/STARS VOC EPA 8260	STARS SVOC 8270 / TPH GC DRO	GLYCOL EPA 8015	REMARKS	PARADIGM LAB SAMPLE NUMBER
8/12/02	13:30		X	MW 6	GW	5	X	X	X	—	7385
8/12/02	14:10		X	MW 3	↓	↓	X	X	X	—	7386
8/12/02	14:40		X	MW 13	↓	↓	X	X	X	slight sheen	7387
8/12/02	15:00		X	MW 1	↓	↓	X	X	X	sheen/product	7388

LAB USE ONLY

SAMPLE CONDITION: Check box if acceptable or note deviation:
CONTAINER TYPE: ☑ PRESERVATIONS: ☑ HOLDING TIME: ☑ TEMPERATURE: ☐ 13°C iced

Sampled By: Kyle R. Miller Date/Time: 8/12/02
Relinquished By: [signature] Date/Time: 8/12/02
Received By: [signature] Date/Time: 8/12/02 17:00
Relinquished By: Date/Time:
Received By: Date/Time:
Received @ Lab By: [signature] Date/Time: 8-13-02 1145

Total Cost:

P.I.F.