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April 28, 1994

REFER: 04100-1286

Transmitted:

Federal Express, Next Day Delivery

Mr. Kent D. Johnson
Engineering Geologist
Bureau of Hazardous Waste Facility Management
Division of Hazardous Substances Regulation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233

Subject: Safety-Kleen Service Center - Dewitt, New York.
Submission of the Sampling Visit (SV) Completion Report Dated April 25, 1994.

Dear Mr. Johnson,

Enclosed please find one copy of the above referenced completion report. The SV work scope was completed in accordance the Groundwater Technology Inc. (GTI) prepared Sampling Visit Work Plan (SVWP) dated September 9, 1993, the Department's conditional approval letter dated October 4, 1993, and Safety-Kleen's letter to the Department dated January 14, 1994.

The Sampling Visit addressed the investigation of soil and groundwater conditions at Area of Concern (AOC)-1, and AOC-2 as identified in Section A.3(C) of the Facility's Part B permit. These AOCs correspond to two (2) soil boring locations (GT-10 and GT-3 respectively) where fuel oil type impacts were previously detected during the completion of a pre-purchase property assessment (12/89) undertaken by Safety-Kleen.

Prior to the implementation of the SVWP, Safety-Kleen completed an excavation Interim Corrective Measure (ICM) during April, 1993 in the area of AOC-2. The ICM was completed during the construction of the Facility's main office/warehouse structure. The ICM endpoint soil sampling results indicated that only trace levels of polynuclear aromatic hydrocarbons (PAHs) were detected at concentrations below published NYS DEC guidance values.

The results of this Sampling Visit indicated that:

- Neither Trichloroethylene (TCE) nor Tetrachloroethene (PCE) were detected above the respective method detection limits.
- Target compounds were not detected at the selected soil sampling depths at any AOC boring location at concentrations above the NYS DEC Recommended Soil Clean-Up Objectives (HWR-92-4046, dated November 16, 1992).


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- The detected SV soil target compounds were similar to the target compounds detected during the ICM excavation sampling program.
- Target compounds were not detected above the New York State groundwater standards at four (4) out five (5) groundwater monitoring well locations (GTs A, B, C & E).
- Only trace (part per trillion levels, near the detection limit of the analysis) of selected PAH compounds were detected at GT-D (general area of AOC-1).

Based upon the results of the Sampling Visit, the supporting soils data from the ICM excavation sampling program, and the Tank Verification Program (which confirmed that no underground storage tanks were present in the designated areas), Safety-Kleen proposes that no further action be required for this facility.

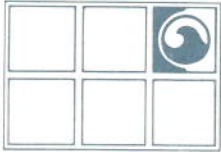
If you should have any questions regarding this completion report, please do not hesitate to contact me at your earliest convenience at (518) 843-6725. As always, Safety-Kleen appreciates the Department's continued assistance with this facility.

Sincerely,
SAFETY-KLEEN CORPORATION


Keith Marcott, CPG, CHMM
Senior Project Manager - Remediation Group

Enclosures: Two (2) Copies of the Sampling Visit (SV) Completion Report Dated April 25, 1994

cc: G. Long, SK - Elgin, IL
T. Lorette, SK - Tolland, CT
G. Robinson, SK - Dewitt, NY
J. Basile, GTI - Schenectady, NY
File: SK-Dewitt Reports, 04100-1286



**GROUNDWATER
TECHNOLOGY**

RECEIVED

APR 28 1994

WESTERN NY PROGRAM
DIVISION OF HAZARDOUS
SUBSTANCES REGULATION

Groundwater Technology, Inc.

1245 Kings Road, Schenectady, NY 12303
Tel: (518) 370-5631 Fax: (518) 370-5864

SAMPLING VISIT WORK PLAN REPORT

**SAFETY-KLEEN SERVICE CENTER
DEWITT, NEW YORK**


April 25, 1994

Submitted To:


Mr. Keith Marcott, CPG, CHMM
Senior Project Manager
Remediation Group
Safety Kleen Corporation
P.O. Box 430
Hagaman, New York 12086

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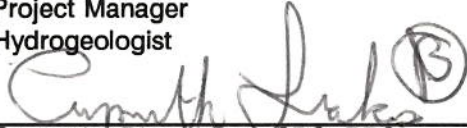

Cymantha Diaz Liakos, CPG, RPG
Customer Program Manager

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1.0 INTRODUCTION

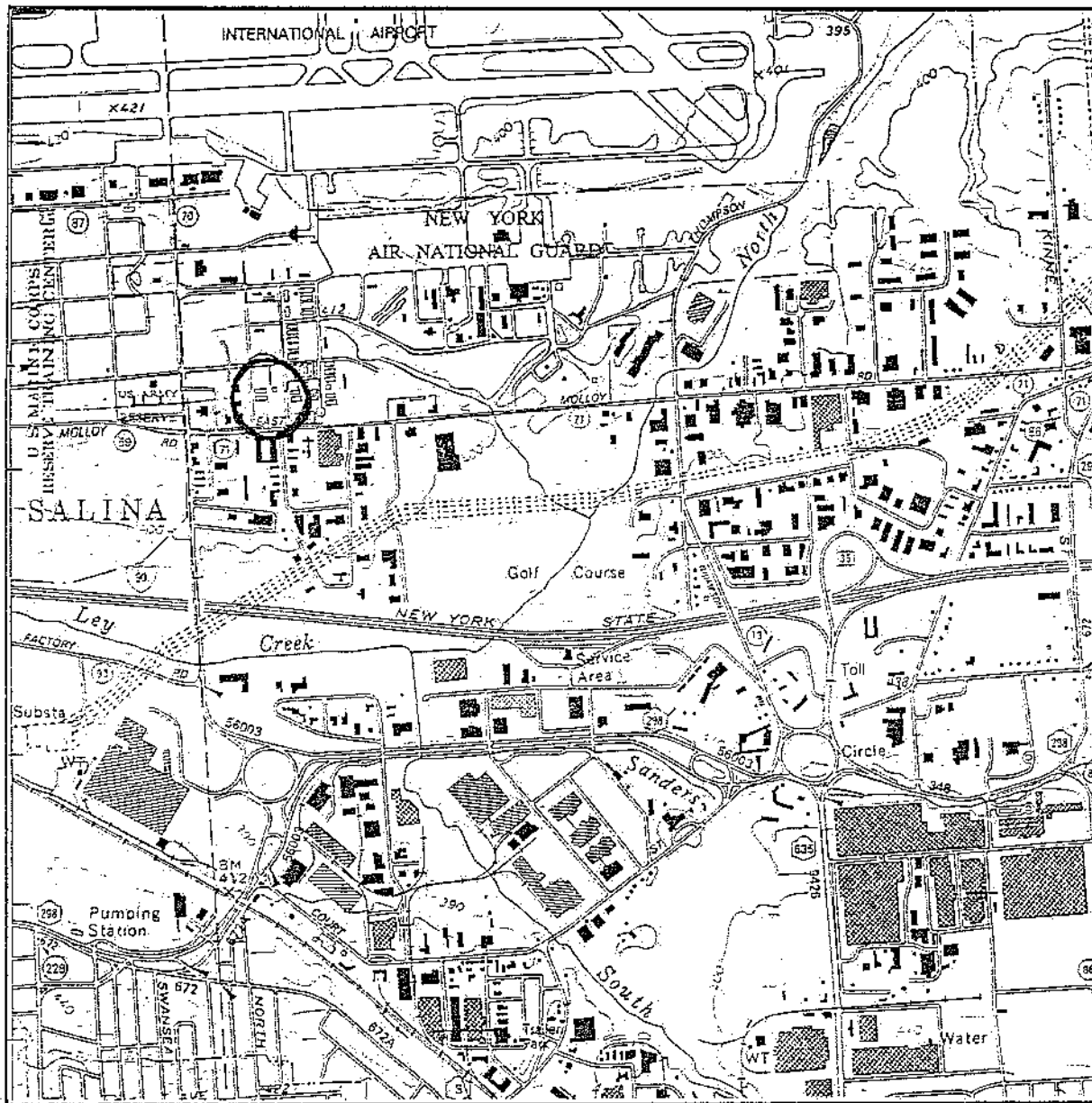
Groundwater Technology, Inc. (Groundwater Technology) was retained by Safety-Kleen Corporation (Safety-Kleen) to develop a Sampling Visit Work Plan (SVWP) for collecting soil and groundwater samples from the Safety-Kleen Service Center property, located in Dewitt, New York (Figure 1, Site Location Map, Figure 2, Site Map).

The SVWP was prepared in order to comply with Module III (Corrective Action Requirements), Condition E.2.(b) of the facility's Part B permit. The plan was developed using the outline specified in Appendix III-E of the Permit, and in accordance with those specifications set forth in the RCRA Quality Assurance Project Plan (QAPJP), and RCRA Sample Visit Work Plan guidance documents. The SVWP addressed the investigation of soil and groundwater conditions at Area of Concern (AOC) AOC-1, and AOC-2 as identified in Section A.3(C) of the facility's Part B Permit. These AOCs correspond to two (2) soil boring locations (GT-10 and GT-3 respectively) where impacts were detected during the completion of a pre-purchase property assessment (12/89) undertaken by Safety-Kleen.

This report presents the methodology employed during the field activities and the results of the soil and groundwater sampling programs completed as part of the SVWP implementation program.

1.1 Background

Safety-Kleen was granted a permit by the New York State Department of Environmental Conservation (NYS DEC) to operate a commercial hazardous waste storage facility from a service center located on Parkway Road, County of Onondaga, in the Town of Dewitt, New York (Figure 1, Site Location Map). The permit was issued in accordance with Article 27, Title 9 of the New York State Environmental Conservation Law (NYS ECL), Subpart 6 NYCRR Part 373. The permit number as assigned by the NYS DEC and the US EPA I.D. number for the facility are NYS DEC Permit Number: 7-3126-0034/00001-9 and US EPA I.D. Number: NYD982743312, respectively.



SOURCE: N.Y.S.D.O.T. TOPOGRAPHIC QUADRANGLE
 SYRACUSE EAST QUADRANGLE
 7.5 MINUTE SERIES
 DATE: 1977/REVISED: 1990

QUAD
 LOCATION



SCALE 1:24,000

0 2,000 4,000



SCALE FEET



**GROUNDWATER
 TECHNOLOGY**

1245 KINGS ROAD
 SCHENECTADY, NY 12303
 (518) 370-5631

DESIGNED:

TMM

DETAILED:

MET

CHECKED:

TMM

SITE LOCATION MAP

CLIENT:

SAFETY-KLEEN CORPORATION

LOCATION:

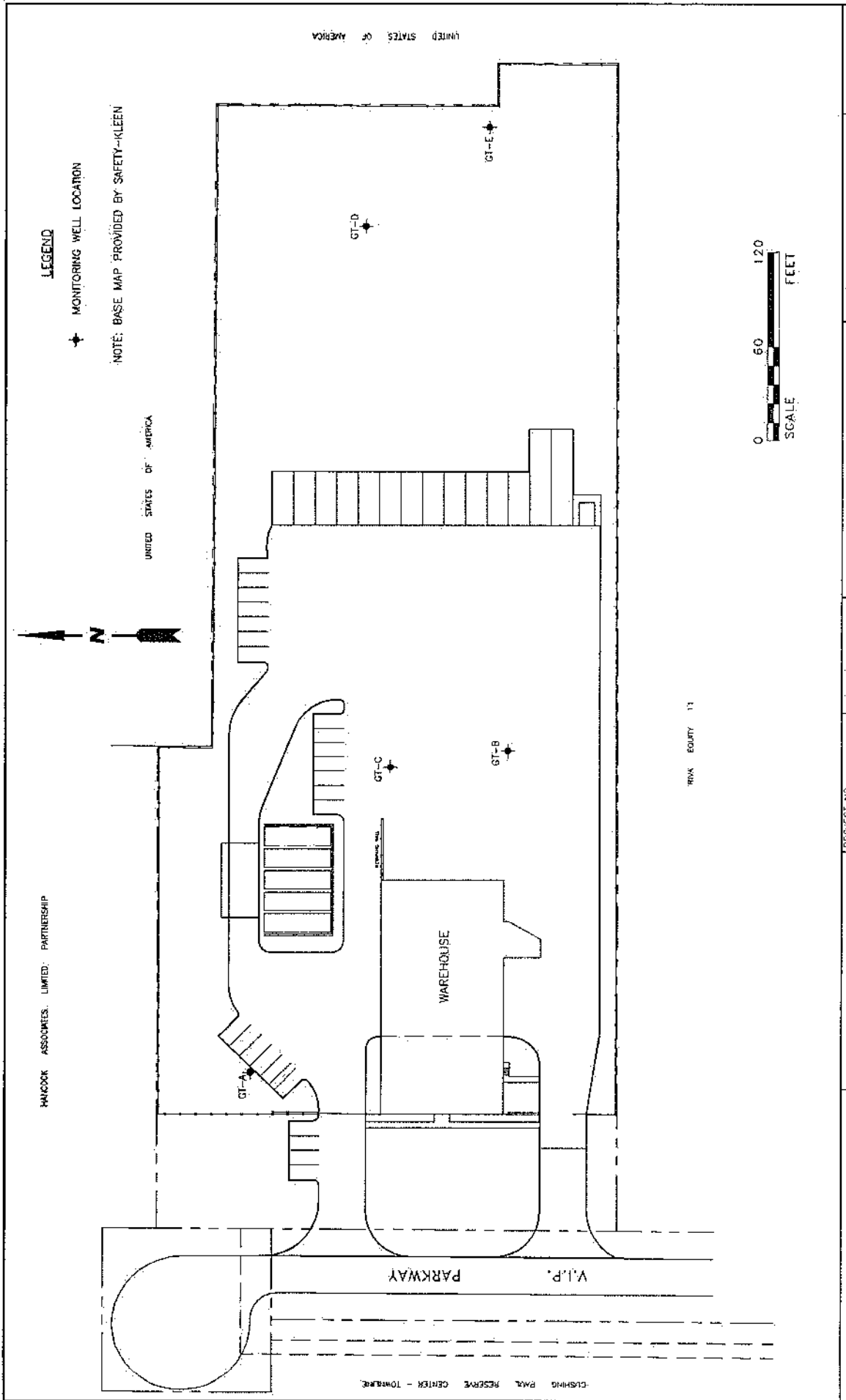
VIP PARKWAY
 DEWITT, NEW YORK

DRAWING DATE:

1/14/93

FIGURE:

1



HANCOCK ASSOCIATES, LIMITED, PARTNERSHIP

LEGEND

✦ MONITORING WELL LOCATION

NOTE: BASE MAP PROVIDED BY SAFETY-KLEEN

UNITED STATES OF AMERICA

UNITED STATES OF AMERICA

CLISHING PAL RESERVE CENTER - TOWNLINE

TRWA EQUITY 11



| | | | | | | |
|--|--|--------------------------------------|-----------------------------|--|--|-----------------------------------|
| | 1245 WILSON ROAD SCHECTICOY, NY 12003 (518) 376-5811 | CLIENT: SAFETY-KLEEN CORP. | PROJECT NO.: OH-100-1286 | DRAWING DATE: 4/25/94 ACAD FILE: 1286-STE | LOCATION: V.I.P. PARKWAY DEWITT, NY | DETAILED: DEC FIGURE: 2 |
| | | | P.M.: JLB S.M.: TMM | | | |

SITE MAP

In accordance with Module III of the permit, Safety-Kleen submitted to the NYS DEC the Task I Report, entitled "Description of Current Conditions, Future Safety-Kleen Service Center", dated January 27, 1992. The purpose of the Report was to provide to all available and relevant data relating to the background, AOCs, impacts, receptors, and corrective actions undertaken at the site. The Task I report indicated that petroleum hydrocarbon impacts to both soil and groundwater were present on-site in the areas of GT-3 (AOC-1), and GT-10 (AOC-2), but at relatively low levels.

Safety-Kleen then prepared a Work Plan dated February 27, 1992 to verify the presence or absence of underground storage tanks (USTs) near two old latrines and the former mess hall at the previously existing facility described above. These locations correspond to the AOCs defined in Module III, Subpart A.3 of the permit. The approved work plan was implemented and the results were forwarded to the NYS DEC (report dated May 21, 1992). The data collected from the tank verification program indicated that no buried underground storage tanks are present in the AOCs identified in the permit.

Safety-Kleen submitted to the NYS DEC a Task II Report entitled "Pre-Investigation Evaluation of Corrective Measure Strategies, Proposed Safety-Kleen Service Center", dated October 20, 1992. The Task II Report evaluated potential corrective measure strategies, and outlined what other geologic/hydrogeologic data would be needed in order to accurately select an applicable corrective measure (if warranted) to address the AOCs listed in the Permit.

In anticipation of the commencement of on-site construction activities, Safety-Kleen submitted a work plan to the NYS DEC (dated October 30, 1992) which proposed corrective measures (limited excavation, and soil sampling) for the location of AOC-2 (GT-10 boring location). The corrective measure was conditionally approved for implementation by the NYS DEC (letter dated December 30, 1992) with minor modifications.

Safety-Kleen submitted a written response to the NYS DEC modifications (letter dated January 12, 1993) in order to clarify the final implementation of the Interim Corrective Measure (ICM) program. The NYS DEC approved the ICM Work Plan (inclusive of Safety-Kleen's January 12, 1993 clarifications) in a letter to Safety-Kleen dated April 1, 1993.

The ICM excavation program was initiated on April 14, 1993, and completed on April 22, 1993. Excavation side wall and endpoint samples were collected and analyzed for the ICM Project Compound List analytes (EPA Methods 8310 and 8020). Trace levels of polynuclear aromatic hydrocarbons (per EPA Method 8310) were detected, but at concentrations below published NYS DEC guidance values

(Soil Clean-Up Objectives, NYS DEC TAGM HWR-92-4046). A report summarizing the ICM excavation program procedures and results was submitted to the NYS DEC on July 27, 1993. In a letter to Safety-Kleen dated September 15, 1993, the NYS DEC stated that the ICM Report was acceptable, and that all activities completed as part of the ICM were completed in accordance with the approved ICM Work Plan.

Safety-Kleen submitted the SVWP to the NYS DEC on September 9, 1993. The Department issued a conditional approval to the Work Plan in correspondence to Safety-Kleen dated October 4, 1993. Safety-Kleen submitted an amendment to the SVWP, based upon the NYS DEC conditional approval dated January 14, 1994.

Site Location and Description

The site is located south of the Hancock International Airport, and is bounded on the north and east by the Hancock Field Air National Guard Base, VIP Parkway on the west and East Molloy Road on the south. According to Major Temple W. Myers, United States Air Force (USAF), Base Civil Engineer, who was interviewed by Paul Hill of Safety-Kleen on September 13, 1989, the site was operated as a United States Army Air Corp (USAAC) troop staging area from 1943 to sometime during the 1950s. At that time buildings on site consisted of barracks, mess hall and latrine facilities. Major Myers indicated that underground oil tanks were in place next to the mess hall and latrine areas and their contents were used to fire fuel oil burners. From the 1950s to 1985 the site was used by the USAF (in 1948 the USAAC was abolished and the USAF was created). From 1985 to 1994 the site was not occupied. In 1988, the barracks, latrines and mess hall were razed.

A walk-through inspection of the area conducted by Groundwater Technology on September 1, 1989, confirmed that the site had been cleared of buildings and leveled with heavy equipment, with the exception of a large earthen mound found on the southwest corner of the property (Groundwater Technology letter dated 9/22/89). At that time (and confirmed on December 26, 1991), large metal pipes, as well as other debris, were found adjacent to the mound and scattered over the site.

Safety-Kleen completed construction of the new Service Center in January, 1994. The Service Center is comprised of a main office/warehouse building, load rack (return and fill station) area, with above ground storage tank), paved parking areas, and a grassy area and storm water runoff retention basin (located in the grassy area).

1.2 Objectives

The objectives of the SVWP were to:

- Further evaluate site geology and hydrogeology,
- Evaluate the presence or absence of fuel oil based petroleum hydrocarbons in the general AOC areas which may be remnants of prior (before Safety-Kleen) fuel oil storage/dispensing practices, and
- Use the collected information (along with existing historical data) to evaluate the necessity for further corrective action measures for the site in accordance with the proposed facility's Part B permit (Module III, Corrective Action Requirements).

1.3 Workscope

The following worksteps were performed in order to achieve the above stated objectives:

- Soil boring/sampling and monitoring well installation,
- Lithological classification and field screening of soil samples for the presence of vapor phase volatile organic compounds,
- Laboratory analysis of selected soil samples,
- Site survey, groundwater gauging and sampling,
- Laboratory analysis of groundwater samples, and
- Preparation of a report of findings.

2.0 METHODS OF INVESTIGATION

2.1 Soil Boring/Monitoring Well Installation and Soil Sampling

On January 24 through January 26, 1994, four (4) soil boring/monitoring wells were installed at the facility at locations that generally correspond to the locations of AOC-1 (GT-D, GT-E) and AOC-2 (GT-B, GT-C)¹. In addition, one monitoring well was installed at a presumed background location on site (GT-A). As Figure 1 - Site Location Map depicts, a branch of Ley Creek is located to the north-northeast of the site. Therefore, GT-A was positioned in order to act as an upgradient control well, assuming that groundwater flow is to the north-northeast, toward the branch of Ley Creek. The remaining wells were located adjacent to and downgradient of the respective AOCs. The soil boring/well locations are indicated on Figure 2 - Site Map.

At each soil boring location, soil samples were collected at two-foot intervals utilizing a hollow stem auger drill rig equipped with a 24 inch long standard spilt spoon. The samples were collected from ground surface to the bottom of the borehole (approximately 15 - 20 feet below grade). Each two-foot soil sample was screened for vapor phase volatile organic compounds (VOCs) using a Photoionization Detector (PID) equipped with an 11.7 eV lamp. The sample from each borehole which exhibited the highest PID reading was sent to the laboratory for chemical analysis. If all readings from the borehole were similar, the sample collected proximate to the top of the water table, as observed during drilling, was retained for laboratory analysis.

The soil samples were analyzed by EPA Method 8010 (for Trichloroethene-TCE, Tetrachloroethene-PCE only), Modified EPA Method 8020 (Aromatic Volatile Organics) and EPA Method 8310 (Polynuclear Aromatic Hydrocarbons - PAHs). All soil samples were shipped via overnight courier to GTEL Environmental Laboratories in Milford, NH, for analysis. GTEL is a New York State Certified laboratory, and is authorized to complete analytical services in accordance with the NYS DEC Analytical Services Protocols (ASP) program. The NYS DEC ASP Category B Quality Assurance/Quality Control (QA/QC) procedures were followed.

The split-spoon sampling device was decontaminated between sampling depths using a Liquinox/tap water wash, tap water rinse, methanol rinse and final rinse with laboratory reagent-free water. All downhole drilling equipment was decontaminated between each location with a steam cleaner.

¹ Note: Please note that SWWP Work Plan inadvertently listed GT-B/C associated with AOC-1, and GT-D/E associated with AOC-2.

Once the borings were completed, two-inch diameter PVC monitoring wells were installed in the boreholes. The wells were installed to depths of approximately 15 feet (GT-A, GT-B, and GT-C), 19 feet (GT-D), and 20 feet (GT-E), and constructed of two-inch diameter PVC well screen (0.10" slotted) and casing with flush-threaded joints. All well materials used were provided in factory sealed bags. The well screens extended from five feet above the water table to seven to twelve feet below the water table. A silica sandpack was installed in the annulus between the well screen and the borehole and extended at least two feet above the top of the screen. A bentonite seal two-foot thick was placed above the sand pack. Cement/bentonite grout was placed above the bentonite seal to a level slightly below grade. The wells were finished with either a bolt down, flush mounted road box assembly and a locking well gripper cap (GT-B, GT-C), or a carbon steel guard pipe equipped with a locking top (GT-A, GT-D, and GT-E).

Following installation, all wells were developed by hand bailing to remove fine sediment from the well, as prescribed by the January 14, 1994 Work Plan Amendment. The wells were considered developed when the purge water was visibly clear of fine sediments.

A Groundwater Technology geologist supervised all well installations, described the soils encountered using the Unified Soil Classification System, recorded soil descriptions, PID readings and well construction details on a Groundwater Technology well log, and performed well development. The on-site geologist also served as the drilling operation site safety supervisor, ensuring that the health and safety plan developed by Groundwater Technology was being followed.

All soil cuttings and development water were containerized in drums for future disposal by Safety-Kleen.

2.2 Site Survey, Groundwater Gauging, and Sampling

On February 8, 1993, the locations and top-of-casing/top-of-ground elevations of all newly installed wells were surveyed by a Groundwater Technology survey team relative to the on-site benchmark. During the same site visit, groundwater samples were collected from the five (5) newly installed monitoring wells. Prior to sampling, each well was gauged with an Interface Probe in order to determine the depth to water. The gauging data were further used to develop a groundwater contour map for that area of the site. Following well gauging, each well was purged of three to five well volumes of water using a disposable polyethylene bailer. Water samples were collected with dedicated polyethylene bailers and new rope. The groundwater samples were collected for analysis by EPA Method 8010 (TCE, PCE), EPA Method 8310, and Modified EPA Method 8020. The samples were sent via overnight courier to GTEL Environmental Laboratories for analyses. All water samples were analyzed in accordance with the NYS DEC ASP Category B QA/QC protocols.

3.0 RESULTS OF INVESTIGATION

3.1 Site Geology and Soil Sampling Results

According to the Geologic Map of New York (Finger Lakes, 1970), the general lithology of the area of the site is composed of overburden soils with thicknesses ranging from 3 to 30 feet, underlain by bedrock of the Vernon Shale Formation. The Vernon Shale, a member of the Upper Silurian Salina Group, consists of easily-eroded materials such as halite, gypsum, shale, and dolostone. The overburden soils in the area of the site are generally composed of more recent lacustrine (lake) silts and/or clays. According to the USGS Water-Resources Investigations Report #85-4094 (Pangano and Terry, 1984), the surficial sediments in the vicinity of the Dewitt site are thin, massive bedded lacustrine sediments deposited offshore in proglacial and postglacial lakes and typically exhibit low permeability.

The lithology of the site documented during recent drilling activities consists of fine sands and silts with some clay to a depth of approximately 14 to 18 feet below grade. These soils are underlain by a very dense clay unit. The soil borings were terminated upon detection of the clay layer. The complete soil descriptions/PID screening results are presented in Appendix A - Drilling Logs. Figure 3 presents a geologic cross section which was developed based on the recent soil boring data.

The results of the PID soil screening performed during the recent soil boring installations are presented in Table 1. Vapor phase VOCs were detected but at concentrations generally below the instrument's detection limit confidence level (approximately 2 parts per million).

**TABLE 1
SUMMARY OF PID SOIL SCREENING RESULTS**

| Feet Below Grade | Borehole Location | | | | |
|------------------|-------------------|------|------|------|------|
| | GT-A | GT-B | GT-C | GT-D | GT-E |
| 4'-6' | ND | ND | ND | ND | ND |
| 6'-8' | ND | ND | ND | ND | ND |
| 8'-10' | ND | 1.2 | 0.6 | ND | 15 |
| 10'-12' | ND | 0.4 | 0.2 | 1.6 | 5 |
| 12'-14' | ND | ND | ND | 2.2 | 0.4 |
| 14'-16' | ND | ND | ND | 0.2 | ND |
| 16'-18' | -- | ND | ND | ND | ND |
| 18'-20' | -- | -- | -- | ND | ND |
| 20'-22' | -- | -- | -- | ND | -- |

KEY:

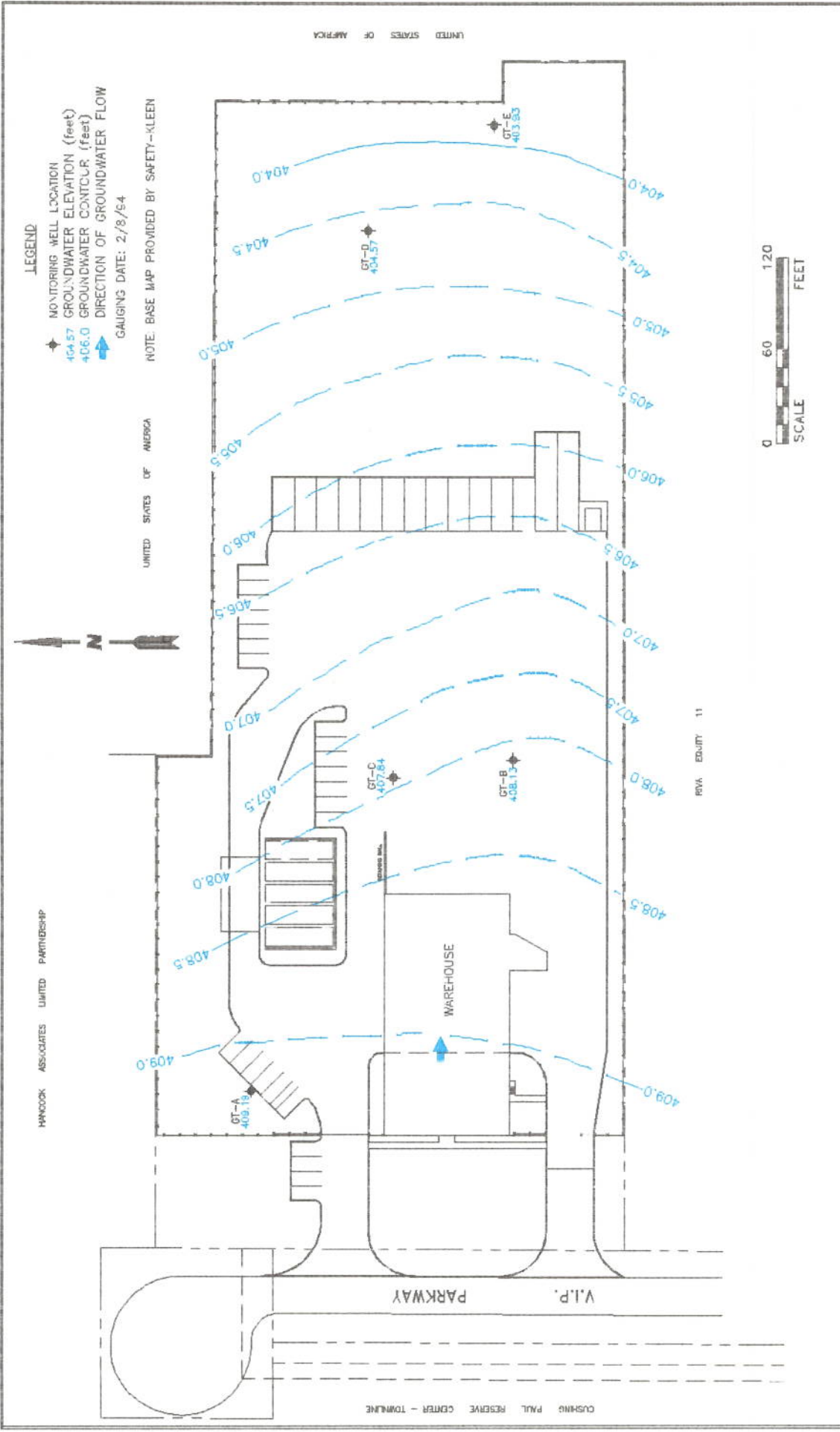
- ND - Not Detected
- GT - Monitoring Well Location
- NS - Not Sampled
- Sample retained for laboratory analysis
- Water Table as observed during drilling

The soil sampling laboratory analytical results are summarized in Table 2, Matrix of Detected Compounds in Soil and Groundwater. As indicated by Table 2, target compounds were not detected at any sampling location above the Soil Clean-Up Objectives as published in NYS DEC TAGM HWR-92-4046.

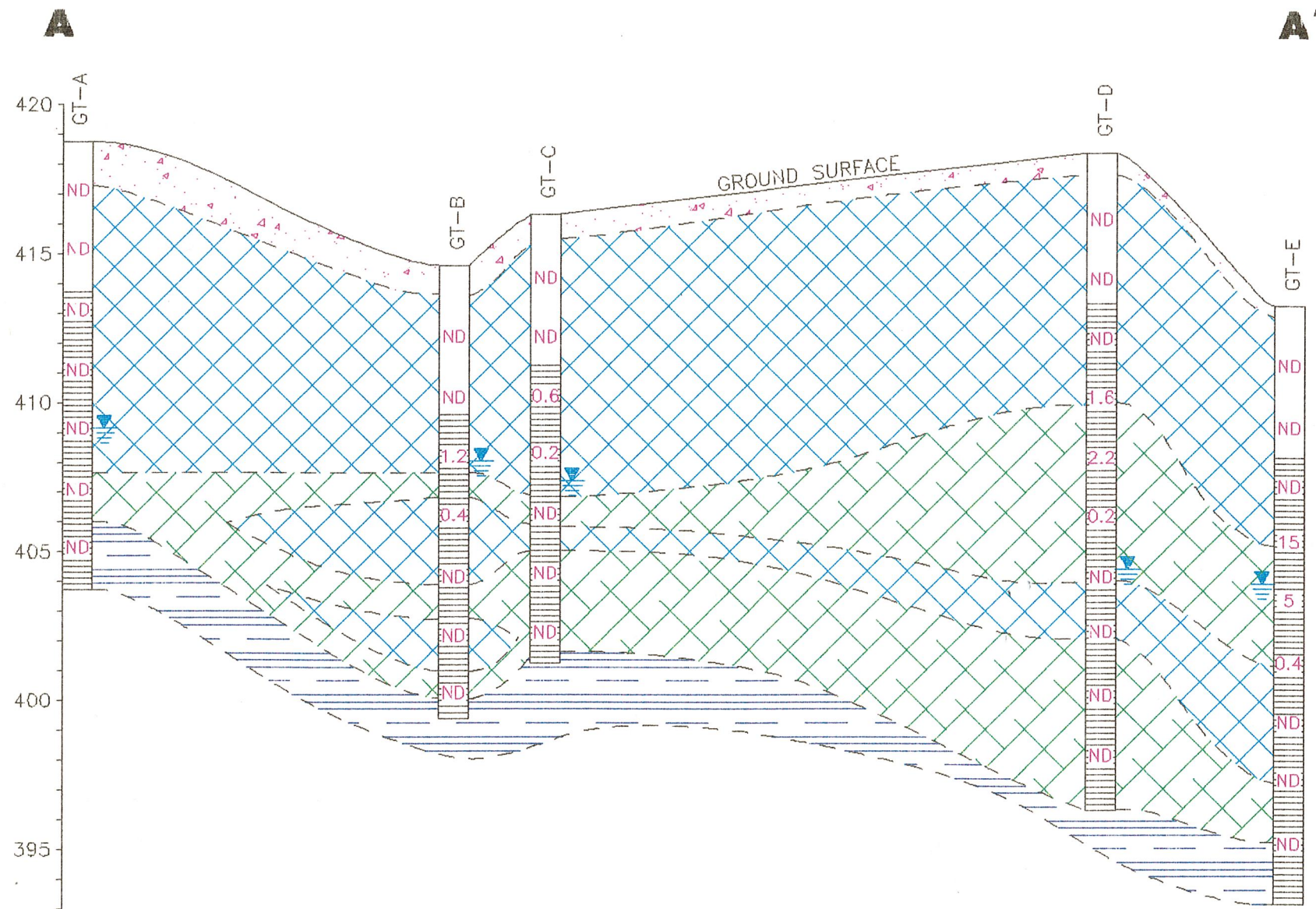
3.2 Site Hydrogeology and Groundwater Sampling Results

The depth to groundwater observed during drilling ranged in depth from 10 feet to 14 feet below grade. The February 8, 1994 gauging indicated depth to water ranging from six feet (GT-B) to 16 feet (GT-D) below grade. The direction of the groundwater flow was determined to be toward the east at a gradient of 0.01 (Figure 4).

The groundwater sampling results are presented in Table 2. The results were compared to the NYS DEC Groundwater Standards (November, 1991). No compounds were detected in groundwater above

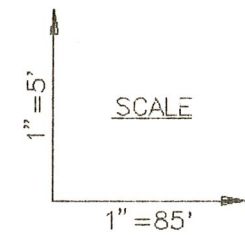


| | | | | |
|--|---|--|--|----------------------------|
| | CLIENT: SAFETY-KLEEN CORP. 1245 ARMS ROAD SCHENECTADY, NY 12303 (518) 370-5831 | PROJECT NO.: 0410C-1286 DRAWING DATE: 4/26/94 FM: JLB SM: TMM ACAD FILE: GWFEB94 | LOCATION: V.I.P. PARKWAY DEWITT, NY | DETAILED: DEO FIGURE: 4 |
| | HANCOCK ASSOCIATES LIMITED PARTNERSHIP | UNITED STATES OF AMERICA | UNITED STATES OF AMERICA | GAUGING DATE: 2/8/54 |

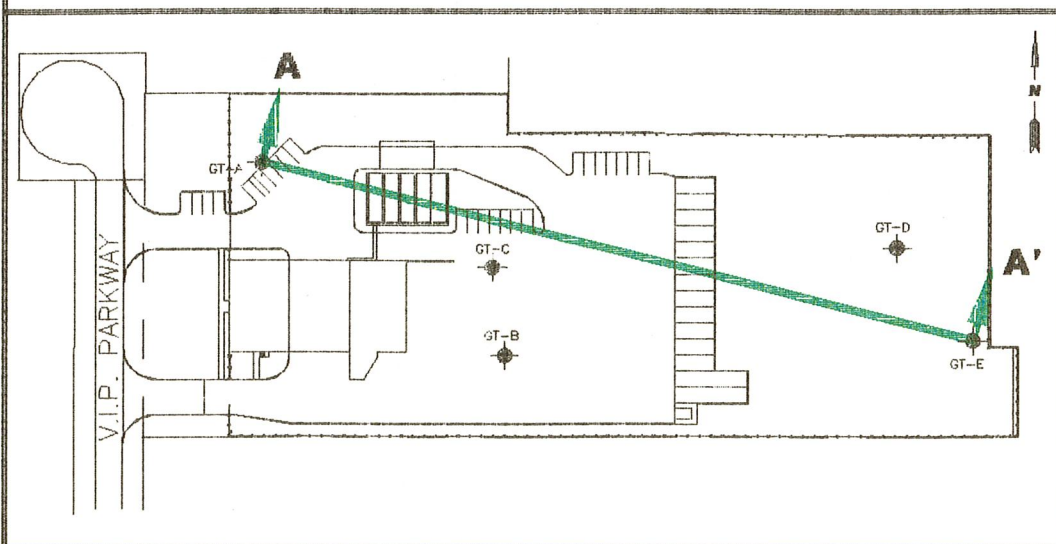


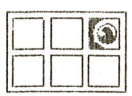
LEGEND

-  FILL
-  FINE SAND, LITTLE TO SOME S.L.T.
-  FINE SAND, SOME CLAY
-  CLAY
-  WATER TABLE AS DETERMINED FROM 2/8/94 GAUGING EVENT
- 0.6 PID READING (ppmv)



SITE MAP



| | | | |
|---|-------------------------|--|---------------------|
|  GROUNDWATER TECHNOLOGY | | 1245 KINGS ROAD SCHENECTADY, NY 12303 (518) 370-5631 | |
| REV. NO.: | DRAWING DATE: 4/5/94 | ACAD FILE: | 1286-X |
| GEOLOGIC CROSS SECTION | | | |
| CLIENT: SAFETY KLEEN CORPORATION | | PM: JLB | |
| LOCATION: VIP PARKWAY DEWITT, NEW YORK | | SM: TMM | |
| DESIGNED: TMM | DETAILED: DEO | PROJECT NO.: | FIGURE: 3 |
| | | 04100-1286 | |

the groundwater standards by EPA Method 8010 and Modified EPA 8020. Trace levels of selected PAHs were detected at the location of GT-D (Benzo{a}anthracene, Benzo{b}fluoranthene, Benzo{k}fluoranthene, and Benzo{a}pyrene).

A duplicate groundwater sample was collected from GT-D for quality assurance/quality control purposes. The duplicate sample results indicated that generally the same compounds were detected, and again at trace levels.

**TABLE 2
MATRIX OF DETECTED COMPOUNDS IN SOIL & GROUNDWATER
SAFETY-KLEEN SERVICE FACILITY IN DEWITT, NY
ALL CONCENTRATIONS EXPRESSED IN PARTS PER MILLION**

| Analyte Compound | Detection Limit (ppm) | NYS DEC Recommended Soil Cleanup Objective* (ppm) | Sample ID / Sampling Interval | | | | | | | GFG (Duplicate of GT-D Water) |
|--|---|--|-------------------------------|----------------|----------------|-----------------|----------------|---|---------|-------------------------------------|
| | | | GT-A 8'-10' | GT-B 8'-10' | GT-C 8'-10' | GT-D 12'-14' | GT-E 8'-10' | GT-F DUP (Duplicate of GT-B Soil) | | |
| 1.0 SOILS | | | | | | | | | | |
| EPA 8010 (in soils) | No target compounds detected at drilling locations. | | | | | | | | | |
| EPA 8020 LL (in soils) | No target compounds detected at drilling locations. | | | | | | | | | |
| EPA 8310 (in soils) | No target compounds detected at drilling locations. | | | | | | | | | |
| Benzo(a)anthracene | 0.00043 | 0.22 or MDL | 0.00056 | 0.0076 | ND | ND | ND | 0.00091 | 0.0024 | - |
| Benzo(b)fluoranthene | 0.00060 | 1.1 | 0.0011 | 0.0067 | ND | ND | ND | 0.0012 | 0.0021 | - |
| Phenanthrene | 0.021 | 50 | ND | 0.045 | ND | ND | ND | ND | ND | - |
| Anthracene | 0.022 | 50 | ND | 0.067 | ND | ND | ND | ND | ND | - |
| Fluoranthene | 0.007 | 50 | ND | 0.018 | ND | ND | ND | ND | ND | - |
| Pyrene | 0.009 | 50 | ND | 0.014 | ND | ND | ND | ND | ND | - |
| Chrysene | 0.005 | 0.4 | ND | 0.0072 | ND | ND | ND | ND | ND | - |
| Benzo(k)fluoranthene | 0.00057 | 1.1 | ND | 0.004 | ND | ND | ND | ND | 0.00096 | - |
| Benzo(a)pyrene | 0.00077 | 0.061 or MDL | ND | 0.0091 | ND | ND | ND | ND | 0.0025 | - |
| 2.0 GROUNDWATER | | | | | | | | | | |
| Groundwater Standard/Guidance Value (GV) (P) | | | | | | | | | | |
| No target compounds detected at sampled locations. | | | | | | | | | | |
| EPA 8010 (in water) | No target compounds detected at sampled locations. | | | | | | | | | |
| EPA 8310 (in water) | No target compounds detected at sampled locations. | | | | | | | | | |
| Toluene | 0.001 | 0.005 | ND | ND | ND | ND | ND | ND | - | 0.001 |
| Benzo(a)anthracene | * 0.000013 | 0.000002 (GV) | ND | ND | ND | ND | ND | ND | - | 0.000046 |
| Benzo(b)fluoranthene | * 0.000018 | 0.000002 (GV) | ND | ND | ND | 0.0000075 | ND | ND | - | 0.000044 |
| Benzo(k)fluoranthene | * 0.000017 | 0.000002 (GV) | ND | ND | ND | 0.0000038 | ND | ND | - | 0.000022 |
| Benzo(a)pyrene | * 0.000023 | ND | ND | ND | ND | 0.00012 | ND | ND | - | 0.000057 |

KEY:

SB - Soil Boring
 GT - Monitoring Well
 ND - Not Detected
 CPS - Closure performance Standard
 NA - Not Analyzed
 Dup - Duplicate Sample

shaded areas indicate detected amounts above NYS DEC Clean-up Objectives/Groundwater Standards/Guidance Values
 (1) NYS DEC Recommended Soil Cleanup Objectives (HWR-92-4046, November 16, 1992)
 (2) Ambient Water Quality Standards and Guidance Values (November 15, 1991)
 *MDL as established in September 5, 1993 SVWP (Appendix B)
 MDL - Method Detection Limit



4.0 SUMMARY AND CONCLUSIONS

Based upon the above SVWP results, Groundwater Technology presents the following conclusions:

- The general lithology of the site consists of fine sands and silts, with some clay, underlain by a clay unit. These sediments are characteristic of low permeability.
- Groundwater was determined to be flowing in an easterly direction.
- No compounds were detected in soils above the NYS DEC Recommended Soil Clean-up Objectives.
- Only trace concentrations of dissolved PAHs (near the MDL) were detected at one groundwater monitoring well location (GT-D).
- The compounds detected at trace levels in both soil and groundwater are characteristically associated with residual fuel oil type impacts. The impacts detected are not associated with the site's current land use, and do not pose a threat to human health and the environment.
- The levels of PAHs detected in groundwater are so low that remediation of these residual impacts would be difficult, impractical and not likely yield any environmental value. Therefore, a No Further Action alternative with respect to Corrective Action at AOC-1 and AOC-2 is proposed.

APPENDIX A
DRILLING LOGS



GROUNDWATER
TECHNOLOGY

Drilling Log

Monitoring Well **GT-A**

Project Safety Kleen Dewitt Owner Safety Kleen Corporation
 Location Dewitt, New York Proj. No. 041001286
 Surface Elev. 418.83 ft. Total Hole Depth 18 ft. Diameter 4.25 in.
 Top of Casing 419.43 ft. Water Level Initial 8 ft. Static
 Screen: Dia 2 in. Length 10 ft. Type/Size .010 in.
 Casing: Dia 2 in. Length 8 ft. Type PVC
 Fill Material #0 Morie Sand Rig/Core CME Drill Rig
 Drill Co. East Coast Drilling Method Hollow Stem Auger
 Driller Dave Log By Debbie Osterhoudt Date 1/25/94 Permit # _____
 Checked By _____ License No. _____

See Site Map
For Boring Location

COMMENTS:

0'-4': Hand dug, therefore no samples

| Depth (ft.) | Well Completion | PID (ppm) | Sample ID Blow Count/ & Recovery | Graphic Log | USCS Class. | Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% |
|-------------|-----------------|-----------|--|-------------|-------------|--|
| -2 | | | | | | |
| 0 | | | | | | |
| 2 | | | | | SP | |
| 4 | | ND | 100% 7-10-12-10 | | | 4'-6': Organics & fine sand to 4'3", then moist brown FINE SAND, little silt to 6' |
| 6 | | ND | 80% 3-8-7-5 | | SM | 6'-8': Moist/wet reddish brown FINE SAND, some silt to 8' |
| 8 | | ND | 70% 4-5-3-3 | | SP | 8'-10': Saturated fine brown sand, little silt to 9', then FINE brown SAND with some FINE-COARSE GRAVEL, little, reddish fine sand, trace gray clay to 10' |
| 10 | | ND | 90% 3-17-21-25 | | SM | 10'-12': Saturated FINE brown SAND some silt to 10.5', then red brown very fine sand, some clay (gray clay) throughout |
| 12 | | ND | 90% 16-21-29-37 | | SC | 12'-14': Saturated VERY FINE DENSE red CLAY with some gray clay throughout to 13', then dry as above with less gray clay to 14' |
| 14 | | ND | 100% 15-28-37-46 | | CL | 14'-16': Dry VERY DENSE red brown CLAY to 14.8', then very dense gray clay to 16' |
| 16 | | | | | | |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |



Drilling Log

Monitoring Well **GT-B**

Project Safety Kleen Dewitt Owner Safety Kleen Corporation
 Location Dewitt, New York Proj. No. 041001288
 Surface Elev. 414.64 ft. Total Hole Depth 18 ft. Diameter 4.25 in.
 Top of Casing 414.04 ft. Water Level Initial 8 ft. Static _____
 Screen: Dia 2 in. Length 10 ft. Type/Size .010 in.
 Casing: Dia 2 in. Length 5 ft. Type PVC
 Fill Material #0 Morie Sand Rig/Core CME Drill Rig
 Drill Co. East Coast Drilling Method Hollow Stem Auger
 Driller Dave Log By Debbie Osterhoudt Date 1/25/94 Permit # _____
 Checked By _____ License No. _____

See Site Map
For Boring Location

COMMENTS:

0'-4': Hand dug, therefore no samples

| Depth (ft.) | Well Completion | PID (ppm) | Sample ID | Blow Count/ % Recovery | Graphic Log | USCS Class. | Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% |
|-------------|-----------------|-----------|-----------|------------------------|-------------|-------------|---|
| -2 | | | | | | | |
| 0 | | | | | | | |
| 2 | | | | | | SM | |
| 4 | | ND | | 100% 3-3-8-8 | | | 4'-6': Moist fill to 4.5', then moist VERY FINE brown SAND, some silt to 6' |
| 6 | | ND | | 100% 2-2-3-4 | | SP | 6'-8': Moist to wet FINE SAND, little silt to 6.6', then wet brown fine sand, some clay to 6' |
| 8 | | 1.2 | | 85% 4-2-3-2 | | SC | 8'-10': Saturated brown FINE SAND, little silt to 10' |
| 10 | | 0.4 | | 75% 8-14-19-25 | | SP | 10'-12': Saturated as above to 10'8", then brown FINE SAND, some clay to 11'2", then red brown SAND and gray CLAY throughout to 12' |
| 12 | | ND | | 90% 7-10-12-17 | | SC | 12'-14': Brown and reddish brown FINE SAND, some silt to 14' |
| 14 | | ND | | 80% 10-15-23-30 | | SP | 14'-16': Brown FINE SAND some clay to 15', then very DENSE dry gray CLAY to 16' |
| 16 | | ND | | 90% 15-23-36-44 | | SC | |
| 18 | | | | | | CL | 16'-18': Sand, VERY DENSE dry gray CLAY to 18' |
| 20 | | | | | | | |
| 22 | | | | | | | |
| 24 | | | | | | | |



Drilling Log

Monitoring Well **GT-C**

Project Safety Kleen Dewitt Owner Safety Kleen Corporation
 Location Dewitt, New York Proj. No. 041001286
 Surface Elev. 416.25 ft. Total Hole Depth 18 ft. Diameter 4.25 in.
 Top of Casing 415.65 ft. Water Level Initial 8 ft. Static _____
 Screen: Dia 2 in. Length 10 ft. Type/Size .010 in.
 Casing: Dia 2 in. Length 5 ft. Type PVC
 Fill Material #0 Morie Sand Rig/Core CME Drill Rig
 Drill Co. East Coast Drilling Method Hollow Stem Auger
 Driller Dave Log By Debbie Osterhoudt Date 1/25/94 Permit # _____
 Checked By _____ License No. _____

See Site Map
For Boring Location

COMMENTS:

0'-4': Hand dug, therefore no samples

| Depth (ft.) | Well Completion | PID (ppm) | Sample ID Blow Count % Recovery | Graphic Log | USCS Class. | Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% |
|-------------|-----------------|-----------|---------------------------------------|-------------|-------------|---|
| -2 | | | | | | |
| 0 | | | | | | |
| 2 | | | | | SP | |
| 4 | | ND | 100% 11-12-8-13 | | | 4'-6': Fill to 4.6', moist brown FINE SAND, little silt to 6'. |
| 6 | | ND | 100% 3-7-5-7 | | | 6'-8': Moist/wet FINE brown SAND, some silt |
| 8 | | 0.6 | 80% 1-2-3-5 | | SM | 8'-10': Saturated as above to 9.5', VERY FINE red brown SAND, some silt, little clay to 10' |
| 10 | | 0.2 | 70% 9-13-15-30 | | SC | 10'-12': Saturated red brown very DENSE FINE SAND, some clay, little silt, gray clay throughout |
| 12 | | ND | 80% 15-32-34-37 | | SP | 12'-14': Saturated brown FINE SAND, little silt to 14.9', then red brown fine sand with some clay |
| 14 | | ND | 30% 15-28-41-48 | | SC | 14'-16': Saturated brown fine sand, little silt, some red brown SAND and gray CLAY throughout |
| 16 | | ND | 80% 15-28-41-44 | | CL | 16'-18': Dry, very DENSE red brown CLAY, some silt, some fine sand to 17', gray dense dry clay to 18' |
| 18 | | | | | | |
| 20 | | | | | | |
| 22 | | | | | | |
| 24 | | | | | | |



Drilling Log

Monitoring Well **GT-D**

Project Safety Kleen Dewitt Owner Safety Kleen Corporation
 Location Dewitt, New York Proj. No. 041001286
 Surface Elev. 418.32 ft. Total Hole Depth 22 ft. Diameter 4.25 in.
 Top of Casing 420.82 ft. Water Level Initial 12 ft. Static _____
 Screen: Dia 2 in. Length 14 ft. Type/Size .010 in.
 Casing: Dia 2 in. Length 8 ft. Type PVC
 Fill Material #0 Morie Sand Rig/Core CME Drill Rig
 Drill Co. East Coast Drilling Method Hollow Stem Auger
 Driller Dave Log By Debbie Osterhoudt Date 1/24/94 Permit # _____
 Checked By _____ License No. _____

See Site Map
For Boring Location

COMMENTS:

0'-4': Hand dug, therefore no samples.

| Depth (ft.) | Well Completion | PTD (ppm) | Sample ID | Blow Count | % Recovery | Graphic Log | USCS Class. | Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% |
|-------------|-----------------|-----------|---------------------|------------|------------|-------------|-------------|---|
| -2 | | | | | | | | |
| 0 | | | | | | | | |
| 2 | | | | | | | SM | |
| 4 | | ND | 100% 2-3-5-8 | | | | SM | 4'-6': Moist brown FINE SAND, some silt, trace organics and fine gravel |
| 6 | | ND | 100% 5-5-8-15 | | | | SP | 6'-8': Moist brown FINE SAND, little clay |
| 8 | | ND | 90% 5-8-11-9 | | | | SP | 8'-10': Wet, brown/brownish-black FINE SAND some clay, trace organics and trace fine gravel (black) |
| 10 | | 1.8 | 80% 3-5-8-8 | | | | SC | 10'-12': Wet/saturated light brown FINE SAND and CLAY, trace reddish fine sand and gray clay "chunks" throughout |
| 12 | | 2.2 | 70% 4-4-5-8 | | | | SC | 12'-14': Saturated as above |
| 14 | | 0.2 | 90% 4-5-5-7 | | | | SP | 14'-16': Saturated brown FINE SAND, little silt |
| 16 | | ND | 90% 5-19-27-31 | | | | SP | 16'-18': Saturated brown FINE SAND, some silt, some gray and reddish brown clay 18'-20': Same as above, with 0.5" gray clay lens at approx. 19.4' |
| 18 | | ND | 100% 16-22-28-34 | | | | SC | |
| 20 | | ND | 90% 7-22-27-31 | | | | SC | 20'-22': Moist reddish brown very dense very fine SAND and CLAY, some gray clay throughout |
| 22 | | | | | | | | |
| 24 | | | | | | | | |



GROUNDWATER
TECHNOLOGY

Drilling Log

Monitoring Well **GT-E**

Project Safety Kleen Dewitt Owner Safety Kleen Corporation
 Location Dewitt, New York Proj. No. 041001286
 Surface Elev. 413.2 ft. Total Hole Depth 20 ft. Diameter 4.25 in.
 Top of Casing 415.7 ft. Water Level Initial 8 ft. Static _____
 Screen: Dia 2 in. Length 15 ft. Type/Size .010 in.
 Casing: Dia 2 in. Length 8 ft. Type PVC
 Fill Material #0 Morie Sand Rig/Core CME Drill Rig
 Drill Co. East Coast Drilling Method Hollow Stem Auger
 Driller Dave Log By Debbie Osterhoudt Date 1/24/94 Permit # _____
 Checked By _____ License No. _____

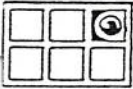
See Site Map
For Boring Location

COMMENTS:

0'-4': Hand dug, therefore no samples

| Depth (ft.) | Well Completion | PID (ppm) | Sample ID Blow Count/ % Recovery | Graphic Log | USCS Class. | Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% |
|-------------|-----------------|-----------|--|-------------|-------------|---|
| -2 | | | | | | |
| 0 | | | | | | |
| 2 | | | | | SP | |
| 4 | | ND | 100% 2-2-2-2 | | | 4'-6': Moist dark brown FINE SAND, little silt |
| 6 | | ND | 100% 2-3-3-2 | | SM | 6'-8': Wet dark brown FINE SAND and silt, little clay |
| 8 | | 15 | 80% WOH-WOH- 1-1 | | SC | 8'-10': Saturated light brown FINE SAND, some clay |
| 10 | | 5 | 90% 2-3-5-8 | | SC | 10'-12': Saturated brown FINE SAND some gray clay and red/brown sand |
| 12 | | 0.4 | 90% 5-3-3-2 | | | 12'-14': Saturated brown/red brown FINE SAND, little silt |
| 14 | | ND | 100% 3-4-4-3 | | SM | 14'-16': Saturated red brown very FINE SAND, some silt, little clay, some gray clay throughout ("chunks") |
| 16 | | ND | 100% 2-27-33-48 | | SC | 16'-18': Red brown very FINE SAND and CLAY with gray clay |
| 18 | | ND | 90% 27-32-38-45 | | CL | 18'-20': Red brown DENSE CLAY to 18.5', then gray CLAY and red brown FINE SAND to 20' |
| 20 | | | | | SC | |
| 22 | | | | | | |
| 24 | | | | | | |

APPENDIX B
GROUNDWATER GRADIENT DATA



**GROUNDWATER
TECHNOLOGY, INC.**

12 WALKER WAY
ALBANY, NY 12205
(518) 456-2444

PROJECT NAME/LOCATION: SK Dewitt PAGE 1 OF 1
 PROJECT NO.: 041001286 TASK CODE: 63 DATE: 2/8/94
 EQUIPMENT NO.: _____ STAFF CONTACT: Teresa Misiolek

PROBE CORRECTION:
 CORR. UNCORR.

WELL ___ NEEDS GRIPPER
 WELL ___ NEEDS ROADBOX
 WELL ___ NEEDS REPAIR

WELL DATA MONITORING FORM

| WELL ID | WELL DEPTH | T.O.C ELEV. | DEPTH TO WATER | DEPTH TO PETRO. | PETRO. THICKNESS | PETRO GRAVITY | HYDRO. EQUIV. | CORRECTED DEPTH TO WATER | CORRECTED WATER ELEV. |
|---------|------------|-------------|----------------|-----------------|------------------|---------------|---------------|--------------------------|-----------------------|
| GT-A | 18.60 | 419.43 | 10.24 | — | — | — | — | — | 409.19 |
| GT-B | 14.60 | 414.04 | 5.91 | — | — | — | — | — | 408.13 |
| GT-C | 14.00 | 415.65 | 7.81 | — | — | — | — | — | 407.84 |
| GT-D | 25.10 | 420.82 | 16.25 | — | — | — | — | — | 404.57 |
| GT-E | 20.70 | 415.70 | 11.77 | — | — | — | — | — | 403.93 |
| | | | | | | | | | |
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COMMENTS:

APPENDIX C
LABORATORY ANALYTICAL REPORTS (SOILS)

#68Reports\SK\1286-63.394

Client Number: 041001286

Project ID: SK DEWITT

Login Number: M4-01-0559

ANALYTICAL RESULTS

Halogenated Volatile Organics in Soil - Low Level
Modified EPA Method 8010Aa

| GTEL Sample Number | | 010559-04 | 010559-05 | 010559-06 | 010559-07 |
|------------------------------|------------------------|----------------------|-----------------|----------------|----------------|
| Client Identification | | GT-E (8-10) | GT-D (12-14) | GT-C (8-10) | GT-A (8-10) |
| Date Sampled | | 01/24/94 | 01/24/94 | 01/25/94 | 01/25/94 |
| Date Analyzed | | 01/28/94 | 01/28/94 | 01/28/94 | 01/28/94 |
| Dilution Factor ^b | | 1.26 | 1.24 | 1.28 | 1.21 |
| Analyte | Reporting Limit, ug/kg | Concentration, ug/kg | | | |
| Trichloroethene | 10 | 13 U | 12 U | 13 U | 12 U |
| Tetrachloroethene | 10 | 13 U | 12 U | 13 U | 12 U |
| Percent Solids, % | | 79.5 | 80.5 | 81.2 | 81.8 |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 1, US EPA July 1992; Sample prepared by EPA Method 5030. Results are reported on a dry weight basis.
- b The dilution factor indicates the adjustments made to the data and reporting limits as a result of dilutions and percent solids.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

000057

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Halogenated Volatile Organics in Soil - Low Level
 Modified EPA Method 8010A^a

| | | | | |
|------------------------------|---------------------------|----------------------|------|----|
| GTEL Sample Number | 010559-08 | 010559-09 | -- | -- |
| Client Identification | GT-B (8-10) | GT-B DUP (8-10) | -- | -- |
| Date Sampled | 01/25/94 | 01/25/94 | -- | -- |
| Date Analyzed | 01/28/94 | 01/28/94 | -- | -- |
| Dilution Factor ^b | 1.18 | 1.20 | -- | -- |
| Analyte | Reporting Limit. ug/Kg | Concentration. ug/kg | | |
| Trichloroethene | 10 | 12 U | 12 U | -- |
| Tetrachloroethene | 10 | 12 U | 12 U | -- |
| Percent Solids. % | | 84.1 | 82.4 | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 1, US EPA July 1992; Sample prepared by EPA Method 5030. Results are reported on a dry weight basis.
 b The dilution factor indicates the adjustments made to the data and reporting limits as a result of dilutions and percent solids.
 U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Aromatic Volatile Organics in Soil - Low Level
 EPA Method 8020a

| GTEL Sample Number | | 010559-04 | 010559-05 | 010559-06 | 010559-07 |
|---|------------------------|----------------------------|-----------------|----------------|----------------|
| Client Identification | | GT-E (8-10) | GT-D (12-14) | GT-C (8-10) | GT-A (8-10) |
| Date Sampled | | 01/24/94 | 01/24/94 | 01/25/94 | 01/25/94 |
| Date Analyzed | | 01/28/94 | 01/28/94 | 01/28/94 | 01/28/94 |
| Analyte | Reporting Limit, ug/kg | Concentration, ug/kg (dry) | | | |
| Benzene | 1.0 | 1.3 U | 1.2 U | 1.2 U | 1.2 U |
| Toluene | 1.7 | 2.2 U | 2.1 U | 2.1 U | 2.1 U |
| Ethylbenzene | 1.0 | 1.3 U | 1.2 U | 1.2 U | 1.2 U |
| Xylenes (total) | 2.0 | 2.6 U | 2.4 U | 2.4 U | 2.5 U |
| Misc. Aliphatics (C ₄ -C ₁₂) | 25 | 32 U | 31 U | 30 U | 31 U |
| Misc. Aromatics (C ₈ -C ₁₀) | 20 | 26 U | 24 U | 24 U | 25 U |
| Dilution Factor ^b | | 1.28 | 1.22 | 1.21 | 1.23 |
| Percent Solids | | 79.5 | 80.5 | 81.2 | 81.8 |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, Table 2, US EPA November 1986; sample prepared by EPA Method 5030. Method modified to include additional compounds. Results are reported on a dry weight basis.
- b The dilution factor indicates the adjustments made to the data and reporting limits as a result of dilutions and percent solids.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Aromatic Volatile Organics in Soil - Low Level
 EPA Method 8020a

| GTEL Sample Number | | 010559-08 | 010559-09 | -- | -- |
|---|---------------------------|----------------------------|--------------------|----|----|
| Client Identification | | GT-B (8-10) | GT-B DUP (8-10) | -- | -- |
| Date Sampled | | 01/25/94 | 01/25/94 | -- | -- |
| Date Analyzed | | 01/28/94 | 01/28/94 | -- | -- |
| Analyte | Reporting Limit, ug/kg | Concentration, ug/kg (dry) | | | |
| Benzene | 1.0 | 1.2 U | 1.2 U | -- | -- |
| Toluene | 1.7 | 2.1 U | 2.0 U | -- | -- |
| Ethylbenzene | 1.0 | 1.2 U | 1.2 U | -- | -- |
| Xylenes (total) | 2.0 | 2.4 U | 2.4 U | -- | -- |
| Misc. Aliphatics (C ₄ -C ₁₂) | 25 | 30 U | 30 U | -- | -- |
| Misc. Aromatics (C ₈ -C ₁₀) | 20 | 24 U | 24 U | -- | -- |
| Dilution Factor ^b | | 1.21 | 1.19 | -- | -- |
| Percent Solids | | 84.1 | 82.4 | -- | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, Table 2, US EPA November 1986; sample prepared by EPA Method 5030. Method modified to include additional compounds. Results are reported on a dry weight basis.
- b The dilution factor indicates the adjustments made to the data and reporting limits as a result of dilutions and percent solids.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

ANALYTICAL RESULTS

Polynuclear Aromatic Hydrocarbons in Soil
 EPA Method 8310a

| GTEL Sample Number | | 010559-04 | 010559-05 | 010559-06 | 010559-07 |
|---|------------------------|----------------------|-----------------|----------------|----------------|
| Client Identification | | GT-E (8-10) | GT-D (12-14) | GT-C (8-10) | GT-A (8-10) |
| Date Sampled | | 01/24/94 | 01/24/94 | 01/24/94 | 01/24/94 |
| Date Extracted | | 01/31/94 | 01/31/94 | 01/31/94 | 01/31/94 |
| Date Analyzed | | 02/08/94 | 02/08/94 | 02/08/94 | 02/08/94 |
| Analyte | Detection Limit, ug/kg | Concentration, ug/kg | | | |
| Naphthalene | 60 | 76 U | 74 U | 74 U | 73 U |
| Acenaphthylene | 77 | 97 U | 95 U | 95 U | 94 U |
| Acenaphthene | 60 | 76 U | 74 U | 74 U | 73 U |
| Fluorene | 7.0 | 8.8 U | 8.7 U | 8.6 U | 8.5 U |
| Phenanthrene | 21 | 26 U | 26 U | 26 U | 26 U |
| Anthracene | 22 | 28 U | 27 U | 27 U | 27 U |
| Fluoranthene | 7.0 | 8.8 U | 8.7 U | 8.6 U | 8.5 U |
| Pyrene | 9.0 | 11 U | 11 U | 11 U | 11 U |
| Benzo[a]anthracene | 0.43 | 0.91 | 0.53 U | 0.53 U | 0.56 |
| Chrysene | 5.0 | 6.3 U | 6.2 U | 6.2 U | 6.1 U |
| Benzo[b]fluoranthene | 0.60 | 1.2 | 0.74 U | 0.74 U | 1.1 |
| Benzo[k]fluoranthene | 0.57 | 0.72 U | 0.71 U | 0.70 U | 0.70 U |
| Benzo[a]pyrene | 0.77 | 0.97 U | 0.95 U | 0.95 U | 0.94 U |
| Dibenzo[a,h]anthracene | 1.0 | 1.3 U | 1.2 U | 1.2 U | 1.2 U |
| Benzo[g,h,i]perylene | 2.5 | 3.2 U | 3.1 U | 3.1 U | 3.1 U |
| Indeno[1,2,3-cd]pyrene | 1.4 | 1.8 U | 1.7 U | 1.7 U | 1.7 U |
| Detection Limit Multiplier ^b | | 1.26 | 1.24 | 1.23 | 1.22 |
| Percent Solids, % | | 79.5 | 80.5 | 81.2 | 81.8 |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; Extraction by EPA Method 3550 (low level sonication). Results are reported on a dry weight basis.
- b The detection limit multiplier indicates the adjustments made to the data and detection limits as a result of dilutions and percent solids.
- U Indicates compound was analyzed for but not detected above the quantitation limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Polynuclear Aromatic Hydrocarbons in Soil
 EPA Method 8310^a

| GTEL Sample Number | | 010559-08 | 010559-09 | -- | -- |
|---|------------------------|----------------------|--------------------|----|----|
| Client Identification | | GT-B (8-10) | GT-B DUP (8-10) | -- | -- |
| Date Sampled | | 01/25/94 | 01/25/94 | -- | -- |
| Date Extracted | | 01/31/94 | 01/31/94 | -- | -- |
| Date Analyzed | | 02/08/94 | 02/08/94 | -- | -- |
| Analyte | Detection Limit, ug/kg | Concentration, ug/kg | | | |
| Naphthalene | 60 | 71 U | 73 U | -- | -- |
| Acenaphthylene | 77 | 92 U | 93 U | -- | -- |
| Acenaphthene | 60 | 71 U | 73 U | -- | -- |
| Fluorene | 7.0 | 8.3 U | 8.5 U | -- | -- |
| Phenanthrene | 21 | 45 | 25 U | -- | -- |
| Anthracene | 22 | 67 | 27 U | -- | -- |
| Fluoranthene | 7.0 | 18 | 8.5 U | -- | -- |
| Pyrene | 9.0 | 14 | 11 U | -- | -- |
| Benzo[a]anthracene | 0.43 | 7.8 | 2.4 | -- | -- |
| Chrysene | 5.0 | 7.2 | 6.1 U | -- | -- |
| Benzo[b]fluoranthene | 0.60 | 6.7 | 2.1 | -- | -- |
| Benzo[k]fluoranthene | 0.57 | 4.0 | 0.96 | -- | -- |
| Benzo[a]pyrene | 0.77 | 9.1 | 2.5 | -- | -- |
| Dibenzo[a,h]anthracene | 1.0 | 1.2 U | 1.2 U | -- | -- |
| Benzo[g,h,i]perylene | 2.5 | 3.0 U | 3.0 U | -- | -- |
| Indeno[1,2,3-cd]pyrene | 1.4 | 1.7 U | 1.7 U | -- | -- |
| Detection Limit Multiplier ^b | | 1.19 | 1.21 | -- | -- |
| Percent Solids, % | | 84.1 | 82.4 | -- | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; Extraction by EPA Method 3550 (low level sonication). Results are reported on a dry weight basis.
- b The detection limit multiplier indicates the adjustments made to the data and detection limits as a result of dilutions and percent solids.
- U Indicates compound was analyzed for but not detected above the quantitation limit indicated.



APPENDIX D
LABORATORY ANALYTICAL REPORTS (GROUNDWATER)

#68Reports\SK\1286-63.394.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-02-0317

ANALYTICAL RESULTS

Halogenated Volatile Organics in Water
 Modified EPA Method 8010A^a

| GTEL Sample Number | | 020317-01 | 020317-02 | 020317-03 | 020317-04 |
|------------------------------|-----------------------|---------------------|-----------|-----------|-----------|
| Client Identification | | GT-C | GT-A | GT-D | TB-1 |
| Date Sampled | | 02/07/94 | 02/08/94 | 02/08/94 | 02/08/94 |
| Date Analyzed | | 02/14/94 | 02/14/94 | 02/14/94 | 02/14/94 |
| Dilution Factor ^b | | 1 | 1 | 1 | 1 |
| Analyte | Reporting Limit, ug/L | Concentration, ug/L | | | |
| Trichloroethene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 1, US EPA July 1992; Extraction by EPA Method 5030 (purge and trap).
- b The dilution factor indicates the adjustments made to the data and reporting limits for sample dilutions.
- c 1,2-Dichloroethene (total) is the sum of both *cis*- and *trans*- isomers.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

ANALYTICAL RESULTS

Halogenated Volatile Organics in Water
 Modified EPA Method 8010A^a

| GTEL Sample Number | | 020317-05 | 020317-06 | 020317-07 | 020317-08 |
|------------------------------|-----------------------|---------------------|-----------|-----------|-----------|
| Client Identification | | GT-G | GT-E | GT-B | TB-2 |
| Date Sampled | | 02/08/94 | 02/08/94 | 02/08/94 | 02/08/94 |
| Date Analyzed | | 02/14/94 | 02/14/94 | 02/19/94 | 02/14/94 |
| Dilution Factor ^b | | 1 | 1 | 1 | 1 |
| Analyte | Reporting Limit, ug/L | Concentration, ug/L | | | |
| Trichloroethene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 1, USEPA July 1992; Extraction by EPA Method 5030 (purge and trap).
- b The dilution factor indicates the adjustments made to the data and reporting limits for sample dilutions.
- c 1,2-Dichloroethene (total) is the sum of both *cis*- and *trans*- isomers.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Halogenated Volatile Organics in Water
 Modified EPA Method 8010A^a

| GTEL Sample Number | | 010559-01 | 010559-02 | 010559-03 | -- |
|------------------------------|--------------------------|---------------------|-----------|----------------|----|
| Client Identification | | SWS-1 | SSEDB-1 | TRIP BLANKS | -- |
| Date Sampled | | 01/24/94 | 01/24/94 | 01/24/94 | -- |
| Date Analyzed | | 01/28/94 | 01/28/94 | 01/28/94 | -- |
| Dilution Factor ^b | | 1 | 1 | 1 | -- |
| Analyte | Reporting Limit, ug/L | Concentration, ug/L | | | |
| Trichloroethene | 1.0 | 1.0 U | 1.0 U | 1.0 U | -- |
| Tetrachloroethene | 1.0 | 1.0 U | 1.0 U | 1.0 U | -- |
| pH | -- | < 2 | < 2 | < 2 | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 1, US EPA July 1992; Extraction by EPA Method 5030 (purge and trap).
 b The dilution factor indicates the adjustments made to the data and reporting limits for sample dilutions.
 U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-02-0317

ANALYTICAL RESULTS

Volatile Organics in Water
 Modified EPA Method 8020^a

| GTEL Sample Number | | 020317-01 | 020317-02 | 020317-03 | 020317-04 |
|---|-----------------------|---------------------|-----------|-----------|-----------|
| Client Identification | | GT-C | GT-A | GT-D | TB-1 |
| Date Sampled | | 02/07/94 | 02/08/94 | 02/08/94 | 02/08/94 |
| Date Analyzed | | 02/12/94 | 02/12/94 | 02/12/94 | 02/12/94 |
| Analyte | Reporting Limit, ug/L | Concentration, ug/L | | | |
| Benzene | 0.5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Toluene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethyl Benzene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Xylenes (total) | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Misc. Aliphatics (C ₄ -C ₁₂) | 50 | 50 U | 50 U | 50 U | 50 U |
| Misc. Aromatics (C ₈ -C ₁₀) | 50 | 50 U | 50 U | 50 U | 50 U |
| Dilution Factor ^b | | 1 | 1 | 1 | 1 |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; extraction by EPA Method 5030 (purge and trap). Method modified to include additional compounds.
- b The dilution factor indicates the adjustments made to the data and reporting limits for sample dilutions.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-02-0317

ANALYTICAL RESULTS

Volatile Organics in Water
 Modified EPA Method 8020^a

| GTEL Sample Number | | 020317-05 | 020317-06 | 020317-07 | 020317-08 |
|---|-----------------------|---------------------|-----------|-----------|-----------|
| Client Identification | | GT-G | GT-E | GT-B | TB-2 |
| Date Sampled | | 02/08/94 | 02/08/94 | 02/08/94 | 02/08/94 |
| Date Analyzed | | 02/12/94 | 02/12/94 | 02/12/94 | 02/12/94 |
| Analyte | Reporting Limit, ug/L | Concentration, ug/L | | | |
| Benzene | 0.5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Toluene | 1.0 | 1.0 | 1.0 U | 1.0 U | 1.0 U |
| Ethyl Benzene | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Xylenes (total) | 2.0 | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Misc. Aliphatics (C ₄ -C ₁₂) | 50 | 50 U | 50 U | 50 U | 50 U |
| Misc. Aromatics (C ₈ -C ₁₀) | 50 | 50 U | 50 U | 50 U | 50 U |
| Dilution Factor ^b | | 1 | 1 | 1 | 1 |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0; US EPA November 1986; extraction by EPA Method 5030 (purge and trap). Method modified to include additional compounds.
- b The dilution factor indicates the adjustments made to the data and reporting limits for sample dilutions.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Volatile Organics in Water
 Modified EPA Method 8020^a

| GTEL Sample Number | | 010559-01 | 010559-02 | 010559-03 | -- |
|---|--------------------------|---------------------|-----------|----------------|----|
| Client Identification | | SWS-1 | SSEDB-1 | TRIP BLANKS | -- |
| Date Sampled | | 01/24/94 | 01/24/94 | 01/24/94 | -- |
| Date Analyzed | | 01/28/94 | 01/28/94 | 01/28/94 | -- |
| Analyte | Reporting Limit, ug/L | Concentration, ug/L | | | |
| Benzene | 0.5 | 0.5 U | 0.5 U | 0.5 U | -- |
| Toluene | 1.0 | 1.0 U | 1.0 U | 1.0 U | -- |
| Ethyl Benzene | 1.0 | 1.0 U | 1.0 U | 1.0 U | -- |
| Xylenes (total) | 2.0 | 2.0 U | 2.0 U | 2.0 U | -- |
| Misc. Aliphatics (C ₄ -C ₁₂) | 50 | 50 U | 50 U | 50 U | -- |
| Misc. Aromatics (C ₈ -C ₁₀) | 50 | 50 U | 50 U | 50 U | -- |
| pH | | < 2 | < 2 | < 2 | -- |
| Dilution Factor ^b | | 1 | 1 | 1 | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; extraction by EPA Method 5030 (purge and trap). Method modified to include additional compounds.
- b The dilution factor indicates the adjustments made to the data and reporting limits for sample dilutions.
- U Indicates compound was analyzed for but not detected above the reporting limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-02-0317

ANALYTICAL RESULTS

Polynuclear Aromatic Hydrocarbons in Water
 EPA Method 8310^a

| GTEL Sample Number | | 020317-01 | 020317-02 | 020317-03 | 020317-05 |
|---|-----------------------|---------------------|-----------|-----------|-----------|
| Client Identification | | GT-C | GT-A | GT-D | GT-G |
| Date Sampled | | 02/07/94 | 02/08/94 | 02/08/94 | 02/08/94 |
| Date Extracted | | 02/11/94 | 02/11/94 | 02/11/94 | 02/11/94 |
| Date Analyzed | | 02/15/94 | 02/15/94 | 02/15/94 | 02/15/94 |
| Analyte | Detection Limit, ug/L | Concentration, ug/L | | | |
| Naphthalene | 1.8 | 1.8 U | 1.8 U | 1.9 U | 2.0 U |
| Acenaphthylene | 2.3 | 2.3 U | 2.3 U | 2.4 U | 2.5 U |
| Acenaphthene | 1.8 | 1.8 U | 1.8 U | 1.9 U | 2.0 U |
| Fluorene | 0.21 | 0.21 U | 0.21 U | 0.22 U | 0.23 U |
| Phenanthrene | 0.64 | 0.64 U | 0.65 U | 0.68 U | 0.70 U |
| Anthracene | 0.66 | 0.66 U | 0.67 U | 0.70 U | 0.72 U |
| Fluoranthene | 0.21 | 0.21 U | 0.21 U | 0.22 U | 0.23 U |
| Pyrene | 0.27 | 0.27 U | 0.27 U | 0.29 U | 0.29 U |
| Benzo[a]anthracene | 0.013 | 0.013 U | 0.013 U | 0.014 U | 0.046 |
| Chrysene | 0.15 | 0.15 U | 0.15 U | 0.16 U | 0.16 U |
| Benzo[b]fluoranthene | 0.018 | 0.018 U | 0.018 U | 0.075 | 0.044 |
| Benzo[k]fluoranthene | 0.017 | 0.017 U | 0.017 U | 0.038 | 0.022 |
| Benzo[a]pyrene | 0.023 | 0.023 U | 0.023 U | 0.12 | 0.057 |
| Dibenzo[a,h]anthracene | 0.030 | 0.030 U | 0.030 U | 0.032 U | 0.033 U |
| Benzo[g,h,i]perylene | 0.076 | 0.076 U | 0.077 U | 0.081 U | 0.083 U |
| Indeno[1,2,3-cd]pyrene | 0.043 | 0.043 U | 0.043 U | 0.046 U | 0.047 U |
| Detection Limit Multiplier ^b | | 1.00 | 1.01 | 1.06 | 1.09 |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; extraction by EPA Method 3510 (liquid-liquid).
- b The detection limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.
- U Indicates compound was analyzed for but not detected above the detection limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-02-0317

ANALYTICAL RESULTS

Polynuclear Aromatic Hydrocarbons in Water
 EPA Method 8310^a

| GTEL Sample Number | | 020317-06 | 020317-07 | -- | -- |
|---|-----------------------|---------------------|-----------|----|----|
| Client Identification | | GT-E | GT-B | -- | -- |
| Date Sampled | | 02/08/94 | 02/08/94 | -- | -- |
| Date Extracted | | 02/11/94 | 02/11/94 | -- | -- |
| Date Analyzed | | 02/15/94 | 02/15/94 | -- | -- |
| Analyte | Detection Limit, ug/L | Concentration, ug/L | | | |
| Naphthalene | 1.8 | 1.9 U | 2.0 U | -- | -- |
| Acenaphthylene | 2.3 | 2.5 U | 2.5 U | -- | -- |
| Acenaphthene | 1.8 | 1.9 U | 2.0 U | -- | -- |
| Fluorene | 0.21 | 0.23 U | 0.23 U | -- | -- |
| Phenanthrene | 0.64 | 0.69 U | 0.70 U | -- | -- |
| Anthracene | 0.66 | 0.71 U | 0.73 U | -- | -- |
| Fluoranthene | 0.21 | 0.23 U | 0.23 U | -- | -- |
| Pyrene | 0.27 | 0.29 U | 0.30 U | -- | -- |
| Benzo[a]anthracene | 0.013 | 0.014 U | 0.014 U | -- | -- |
| Chrysene | 0.15 | 0.16 U | 0.17 U | -- | -- |
| Benzo[b]fluoranthene | 0.018 | 0.019 U | 0.020 U | -- | -- |
| Benzo[k]fluoranthene | 0.017 | 0.018 U | 0.019 U | -- | -- |
| Benzo[a]pyrene | 0.023 | 0.025 U | 0.025 U | -- | -- |
| Dibenzo[a,h]anthracene | 0.030 | 0.032 U | 0.033 U | -- | -- |
| Benzo[g,h,i]perylene | 0.076 | 0.082 U | 0.084 U | -- | -- |
| Indeno[1,2,3-cd]pyrene | 0.043 | 0.046 U | 0.047 U | -- | -- |
| Detection Limit Multiplier ^b | | 1.08 | 1.10 | -- | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; extraction by EPA Method 3510 (liquid-liquid).
- b The detection limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.
- U Indicates compound was analyzed for but not detected above the detection limit indicated.

Client Number: 041001286
 Project ID: SK DEWITT
 Login Number: M4-01-0559

ANALYTICAL RESULTS

Polynuclear Aromatic Hydrocarbons in Water
 EPA Method 8310^a

| GTEL Sample Number | | 010559-02 | -- | -- | -- |
|---|-----------------------|---------------------|----|----|----|
| Client Identification | | SSEDB-1 | -- | -- | -- |
| Date Sampled | | 01/24/94 | -- | -- | -- |
| Date Extracted | | 01/28/94 | -- | -- | -- |
| Date Analyzed | | 02/03/94 | -- | -- | -- |
| Analyte | Detection Limit, ug/L | Concentration, ug/L | | | |
| Naphthalene | 1.8 | 1.8 U | -- | -- | -- |
| Acenaphthylene | 2.3 | 2.3 U | -- | -- | -- |
| Acenaphthene | 1.8 | 1.8 U | -- | -- | -- |
| Fluorene | 0.21 | 0.21 U | -- | -- | -- |
| Phenanthrene | 0.64 | 0.64 U | -- | -- | -- |
| Anthracene | 0.66 | 0.66 U | -- | -- | -- |
| Fluoranthene | 0.21 | 0.21 U | -- | -- | -- |
| Pyrene | 0.27 | 0.27 U | -- | -- | -- |
| Benzo[a]anthracene | 0.013 | 0.013 U | -- | -- | -- |
| Chrysene | 0.15 | 0.15 U | -- | -- | -- |
| Benzo[b]fluoranthene | 0.018 | 0.018 U | -- | -- | -- |
| Benzo[k]fluoranthene | 0.017 | 0.017 U | -- | -- | -- |
| Benzo[a]pyrene | 0.023 | 0.023 U | -- | -- | -- |
| Dibenzo[a,h]anthracene | 0.030 | 0.030 U | -- | -- | -- |
| Benzo[g,h,i]perylene | 0.076 | 0.076 U | -- | -- | -- |
| Indeno[1,2,3-cd]pyrene | 0.043 | 0.043 U | -- | -- | -- |
| Detection Limit Multiplier ^b | | 1.00 | -- | -- | -- |

- a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; extraction by EPA Method 3510 (liquid-liquid).
- b The detection limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.
- U Indicates compound was analyzed for but not detected above the quantitation limit indicated.

Client Number: 041001286
Project ID: SK Dewitt, NY
Login Number: M4-03-0317A

| Sample Identification | | pH Units ^a |
|-----------------------|-----------|-----------------------|
| GTEL No. | Client ID | -- |
| 020317-01 | GT-C | < 2 |
| 020317-02 | GT-A | < 2 |
| 020317-03 | GT-D | < 2 |
| 020317-05 | GT-G | < 2 |
| 020317-06 | GT-E | < 2 |
| 020317-07 | GT-B | < 2 |

a Estimated concentration. This sample was analyzed upon receipt in the laboratory, but was beyond the recommended holding time.

Client Number: 041001286
Project ID: SK Dewitt, NY
Login Number: M4-01-0559A

| Sample Identification | | pH Units ^a |
|-----------------------|-----------|-----------------------|
| GTEL No. | Client ID | - |
| 010559-01 | SWS-1 | < 2 |
| 010559-02 | SSEDB-1 | < 2 |

a Estimated concentration. This sample was analyzed upon receipt in the laboratory, but was beyond the recommended holding time.