FLUOR DANIEL GTI

WEST STATION REMEDIATION PROJECT
WEST STATION MANUFACTURED GAS PLANT
ROCHESTER, NEW YORK

Fluor Daniel GTI Project 011100268

May 5, 1997

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Project Reports and Plans

Rochester Gas and Electric Corporation
West Station Manufactured Gas Plant Site
Rochester, New York

RG&E Voluntary Remediation Agreement
NYSDEC Index No.: D8-0001-95-10

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Section 1.1

Report entitled *Rochester Gas and Electric Corporation, West Station Manufactured Gas Plant Site, Rochester, New York, West Station Remediation Project*, dated May 5, 1997, prepared by Fluor Daniel GTI, 60 Earhart, Drive, Buffalo, New York 14221

1

1.0 INTRODUCTION

Rochester Gas and Electric Corporation (RG&E) owns and operates Beebee Station, an 80-megawatt, coal-fired, electric-power-generating facility, located in Rochester, New York (**figure 1-1**). The Beebee Station power plant property, totaling approximately 15 acres, includes the location of the former West Station manufactured gas plant (MGP).

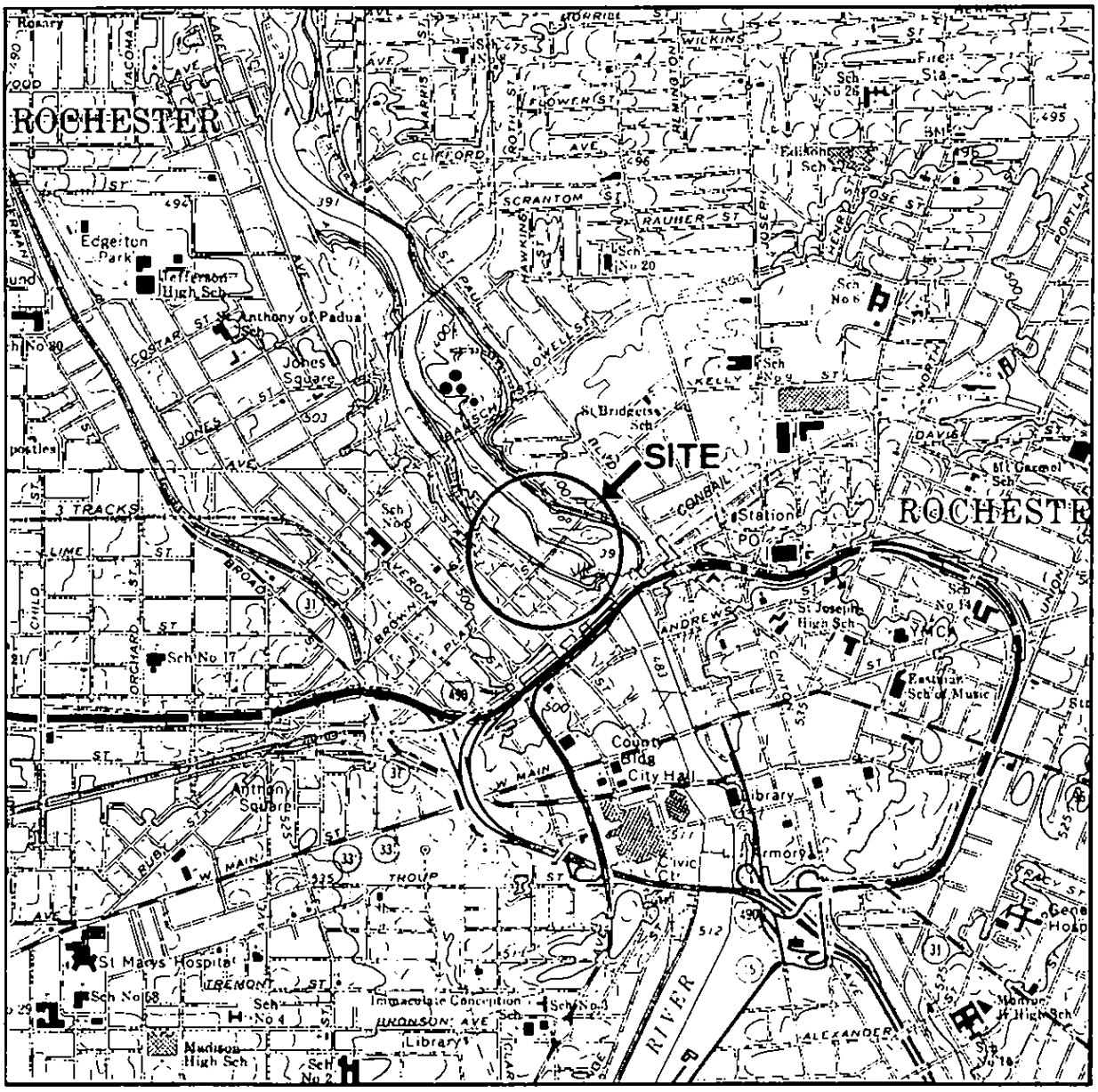
The West Station MGP operated from 1917 to 1952 and generated gas from both water gas and coal carbonization processes. The gases produced at West Station were transported via pipeline across the Genesee River to the East Station MGP where they were purified and stored. The manufactured gas generated by both of these plants was used as an industrial and commercial energy source before and during the development of the natural gas production and transmission infrastructure.

Figure 1-2 shows the entire Beebee Station property detailing facilities and structures prior to the site investigation. The former West Station MGP structures were located at the north end of the plant as shown in **figure 1-3**. Upon decommissioning of West Station, the MGP residuals (tar, ash, coke, etc.) were reportedly co-disposed with demolition debris and spoils from the installation of gas and electric distribution facilities at the southern end of the property in what is known as the "Park Area" (**figure 1-2**). **Figure 1-4** shows the current Beebee Station facility detailing 1996 conditions.

RG&E has taken a phased approach to address the MGP residual wastes disposed at the West Station MGP site. The company's first step to manage this environmental issue was the initial recognition of potential environmental impacts. RG&E determined that the site presented an elevated potential for human exposure because of the presence of coal tars on the ground surface (exposure potential for site workers) and the possible future transformation of the southern end of the power plant property into a public access recreation area. A risk analysis of possible treatment options performed following the site investigation concluded it was necessary to perform remediation of the MGP residuals at the Park Area portion of the site to minimize the potential risk resulting from human exposure in a recreational land use scenario.

The following is a summary of the phases in which the project was completed. These phases of the West Station Remediation Project are discussed in detail in this report.

- Site Investigation, including risk analysis: (September 1991 – January 1992)
- Phase I Site Management: Remediation in Area A (July 1992 – September 1992)
- Phase II Site Management: Test Burn Evaluation (May 1994 – October 1994)
- Phase III Site Management: Remediation in Area B (October 1995 – August 1996)



SOURCE U.S.G.S. TOPOGRAPHIC QUADRANGLES
ROCHESTER WEST & EAST, NY QUADRANGLES
7.5 MINUTE SERIES
DATE: 197[illegible]
PHOTOREVISED: 1978

QUAD LOCATION

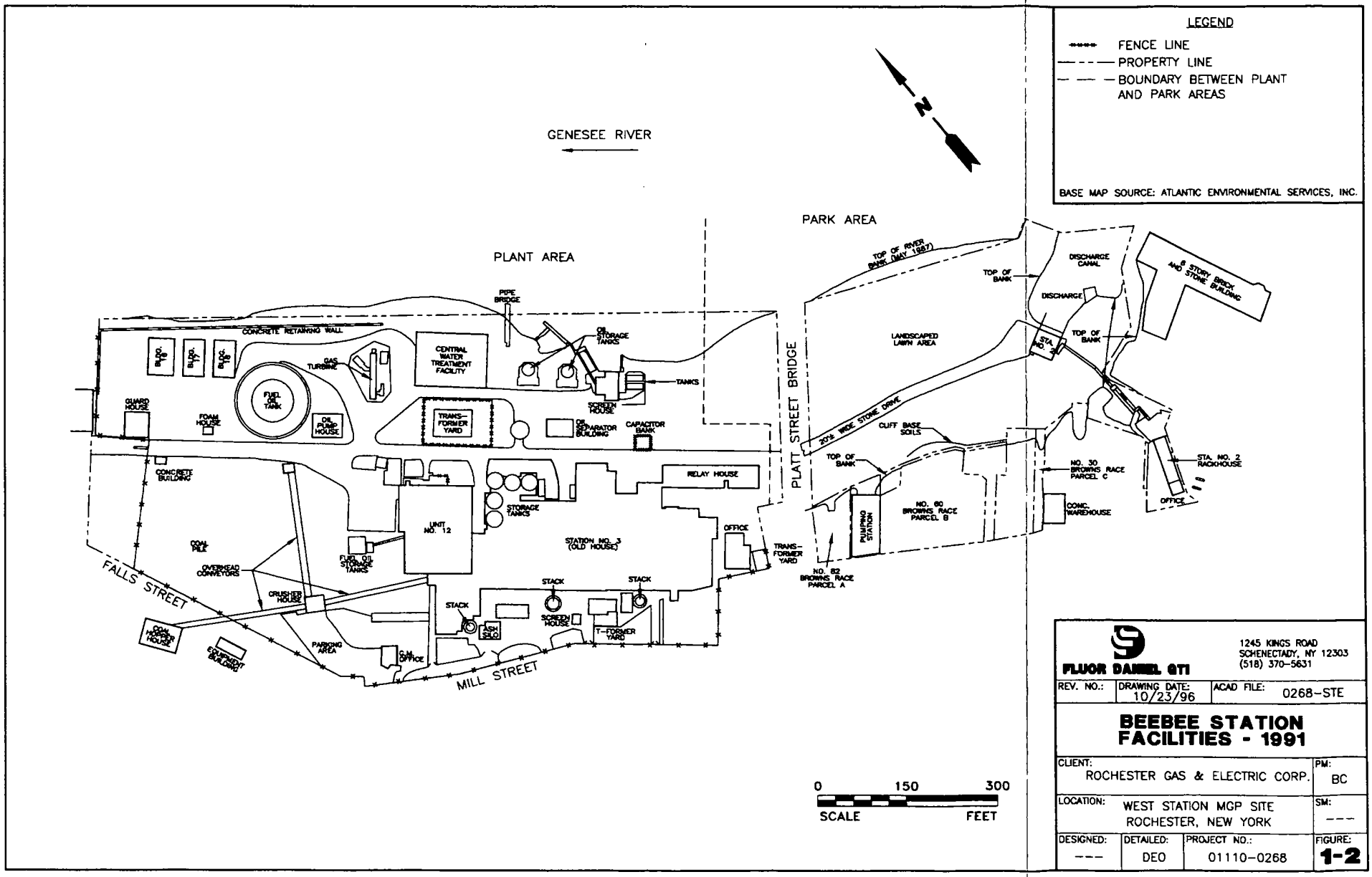
SCALE 1:24,000

0 2,000 4,000

SCALE FEET

N

FLUOR DANIEL GTI	DESIGNED: BC	**SITE LOCATION MAP**
1245 KINGS ROAD SCHENECTADY, NY 12303 (518) 370-5631	DETAILED: DEO	CLIENT: ROCHESTER GAS & ELECTRIC CORP. — DRAWING DATE: 9/29/96
	CHECKED:	LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK — FIGURE: **1-1**



FLUOR DANIEL GTI

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

REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-STE

BEEBEE STATION FACILITIES - 1991

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
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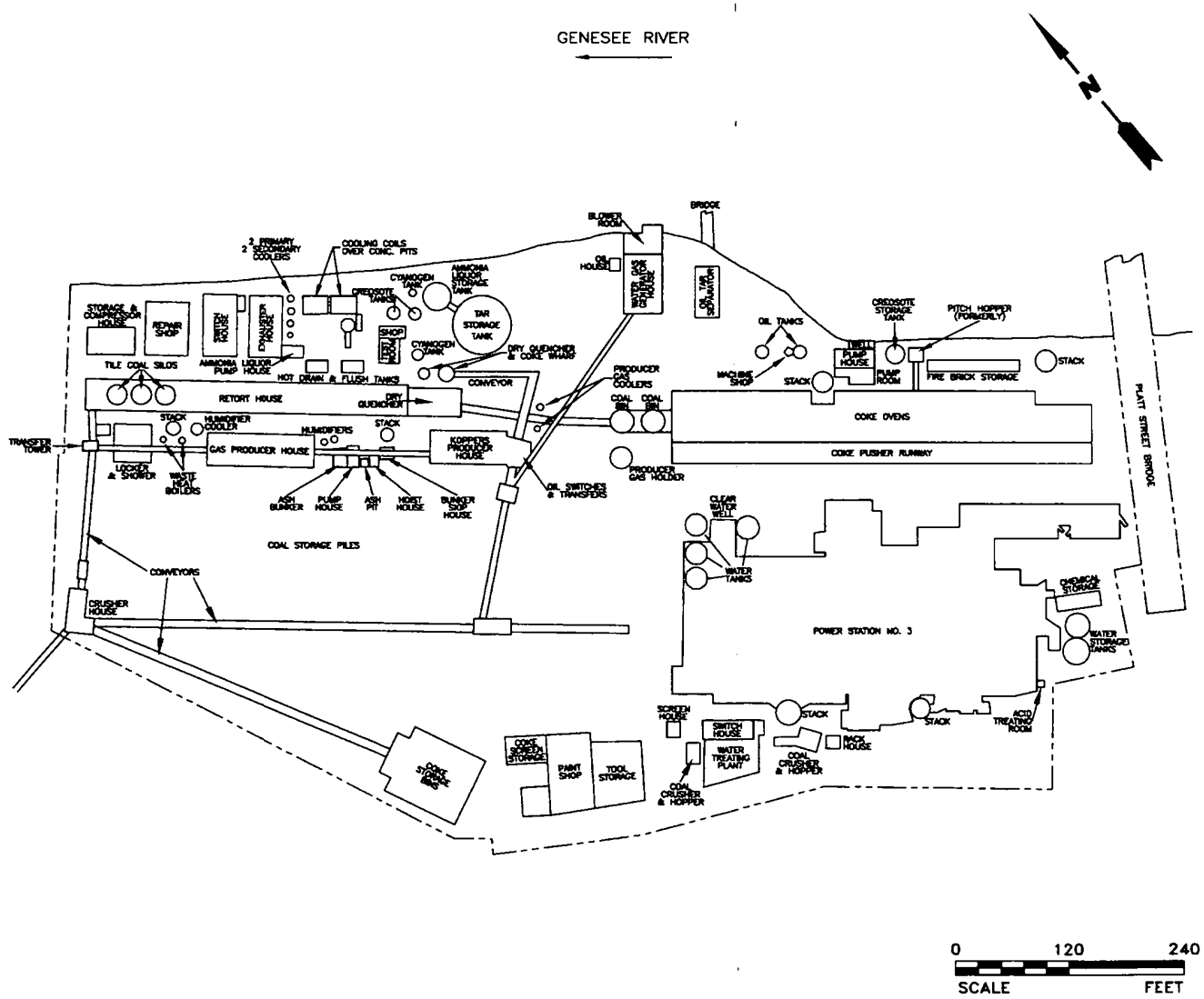

LEGEND

——— PROPERTY LINE

BASE MAP SOURCE: ATLANTIC ENVIRONMENTAL SERVICES, INC.

FLUOR DANIEL GTI

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

REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-ST2

FORMER WEST STATION MGP STRUCTURES - 1951

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE, ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
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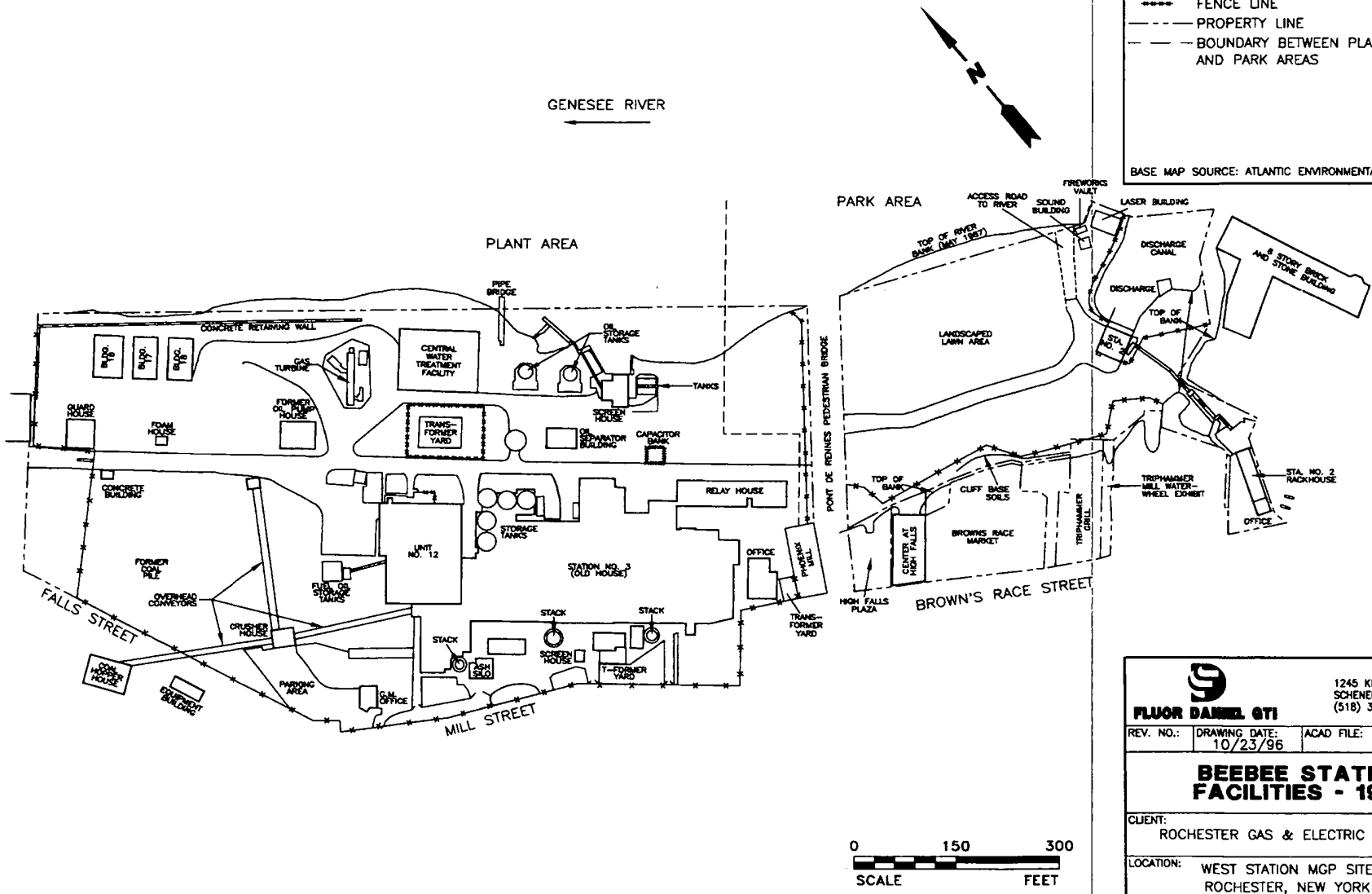


LEGEND

FENCE LINE

PROPERTY LINE

BOUNDARY BETWEEN PLANT AND PARK AREAS

BASE MAP SOURCE: ATLANTIC ENVIRONMENTAL SERVICES, INC.

FLUOR DANIEL GTI

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

REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-BSF

BEEBEE STATION FACILITIES - 1996

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110-0268	1-4

2

2.0 OBJECTIVES

RG&E began its work at this site in 1991 after a routine environmental site assessment indicated the presence of coal tars on the ground surface on a remote portion of the property. The company has had a long standing commitment to address its environmental matters in a proactive manner, and thus embarked on the investigation and eventual remediation of this site.

The purpose of this report is to present, in a singular format, a description of the investigation and remediation work completed for the West Station MGP Site. In particular, this report details the remediation of the West Station MGP residuals that were disposed of in the Park Area of the Beebee Station property. During the course of the project, the Park Area became further defined as two areas known as Area A and Area B. This report also references all relevant documents, analytical data, and other information that would be required to complete a thorough examination of the investigative and remedial history of the site.

RG&E has undertaken this work and prepared this report to meet its obligations as detailed in a Voluntary Agreement between RG&E and the New York State Department of Environmental Conservation (NYSDEC) (Agreement Index No. D8-0001-95-10). The Voluntary Agreement is included in this report as **appendix A**. The Voluntary Agreement contains provisions allowing the NYSDEC to release RG&E from future liability associated with the Park Area of the site providing that RG&E meets all requirements described therein. The parcel of land for which the release is being sought can be described as the area of the Beebee Station property that is southeast of the Platt Street Bridge, northeast of the gorge wall, southwest of the Genesee River, and northwest of the Station No. 2 hydroelectric plant (see **figure 1-2**). Although this report details work completed in areas outside of the boundaries described by the voluntary agreement, release is being sought for only that area within those boundaries.

3

3.0 BACKGROUND

The following section presents background information of the West Station MGP Site, including a description of existing plant facilities, historical West Station MGP information, and a brief summary of previous investigative work completed.

3.1 Site Description

The RG&E Beebee Station power plant property, which includes the West Station MGP Site, is located northwest of downtown Rochester's business district between the Genesee River and Mill and Brown's Race Streets. The property is bounded to the southwest by cliffs ranging in height from 60 to 80 feet. High Falls, a 93-foot waterfall on the Genesee River, is located at the southeastern corner of the site (**figure 1-1**). High Falls was formerly known as Upper Falls.

The surrounding land use is primarily commercial and industrial. To the northeast, the opposite bank of the Genesee River is occupied by the Genesee Brewing Company, Inc and a City of Rochester park. Rochester's downtown business district is approximately 0.25 mile to the southeast. Small businesses, restaurants, parking lots, and office buildings exist to the west of the site. Occupying the land to the north are small businesses and vacant properties.

The site lithology consists of fill materials overlying stream alluvium which overlies bedrock. The fill materials include ash, tar, rock, coke, slag, brick, building rubble, construction debris, and imported natural materials from off-site gas and electric line installations. Bedrock is the Rochester Shale Formation, a dark gray, calcareous mudstone with abundant dolomite and limestone interbeds. The cliffs that bound the site to the south and west are composed of the Lockport Dolomite Formation, a medium gray vuggy dolomite. Morrison-Knudsen Engineers, Inc., prepared a report for RG&E in 1986 that provides a detailed description of the hydrology and geology of the Beebee Station area. This report is discussed in section 3.4.3.

3.2 Facility Description

The RG&E Beebee Station property, for the purposes of this report, will be separated into two sections. The northwestern portion of the property will be considered the Plant Area, which consists of the part of the property to the northwest of the Platt Street pedestrian bridge, which is currently known as the Pont de Rennes pedestrian bridge. The area directly beneath and to the southeast of the bridge is considered the Park Area (see **figure 1-2**). The bridge is approximately 80 feet above

the ground surface of the property. The Park Area is the area in which the West Station MGP residual wastes addressed by this work were located. For the purposes of the current report, the West Station MGP Site will refer to the Park Area.

The Plant Area of Beebee Station contains an active 80-megawatt, pulverized coal, tangentially fired, utility boiler. Other facilities located within the plant area are office buildings, the central wastewater treatment facility, transformer yards, capacitor banks, aboveground storage tanks for fuel, chemicals, and process water, a former coal storage area, coal handling facilities, and structures housing decommissioned boilers.

The Park Area, prior to remedial work, was generally a flat, sparsely treed, grassy area with a crushed stone access road leading to Station No. 2 (**figure 1-2**). Station No. 2 is an active 8-megawatt hydroelectric generation facility located at the southeastern most end of the Beebee Station property. Several aspects of the facility changed over the five years covered by this report. **Figure 1-4** depicts the Beebee Station facility as it appears in 1996. Certain structures appear on later drawings that do not appear on earlier drawings. These structures (e.g. laser building) were constructed on (or removed from) the site as time progressed, thus explaining the drawing differences.

3.3 West Station Historical Description

The West Station MGP generated gas from the water gas and coal carbonization processes. The raw gases were collected and directed into a 48-inch, cast-iron pipeline and transported across the Genesee River to another operating MGP known as East Station. Gas purification and storage took place at East Station. Once purified, the gas generated at both the East and West Stations was distributed to industrial, commercial, and residential customers for lighting and space heating. It also served as the fuel for city street lamps. The West Station facility operated from 1917 through 1952.

By-products of gas manufacturing and purification are many and varied. They include coal tars, coke, purifier residues (oxide box wastes) containing iron cyanides, ammoniacal liquors, sulfur compounds, light oils, and many others, most of which were converted into useful by-products and sold. In some cases, when these facilities closed, the residues ended up being disposed on-site in shallow depressions or in underground storage tanks.

Aside from coal tars, the residuals mentioned above were generated almost exclusively in the gas purification processes. The fact that gas purification occurred at the East Station MGP rather than the West Station led to a unique set of conditions at the West Station MGP site. Because no gas purification or by-product operations took place at the West Station Site, many of those typical MGP

wastes were not present. The residues that remained on site were limited to coal tars, with small amounts of ash and coke breeze (a fine coke dust from the coke ovens).

Reportedly, the West Station Site received tar, ash, coke, etc. from on-site operations and miscellaneous demolition debris and spoils from the installation of off-site gas and electric lines. For the purposes of this report, the tar residues are defined as one of two categories: coal tar soils and coal tar.

Coal tar soils at the West Station site consist of MGP residues, and soils which include earthen materials such as spoils from electric and gas line installations with tar, coke, ash, and demolition debris. Coal tar, as used in this document, refers to pure coal tar and some minor percentage of gravel, soil, ash, coke, or debris.

3.4 History of Site Investigations

The following section describes the chronological history of investigative work completed near West Station. Prior to the investigation and remediation projects that were completed at West Station under the direction of RG&E, several investigations were performed at the West Station property. The initial investigation was completed in 1985 and covered the area known as the Lower Falls site, which included approximately 20 acres between and surrounding the area between Middle and Lower Falls. In subsequent investigations completed between 1986 and 1988, the area under investigation was expanded to include the land between Upper and Lower Falls and between St. Paul Street and State Street/Lake Avenue. This area was listed on the New York State Inactive Hazardous Waste Site Registry (Site No. 828044) in 1983 although no formal site boundaries were ever established and was delisted from the Registry in 1989.

3.4.1 Chronological Summary

The following is a brief summary of each project completed at the former Upper to Lower Falls Site and the West Station Site. Each of these projects is discussed in more detail in later sections.

In 1985, Recra Research, Inc. performed a Phase I Investigation of the former Lower Falls Site because of the presence of chemical seeps on the face of Lower Falls and at the base of the falls. The investigation was contracted by the NYSDEC.

In 1986, Morrison-Knudsen Engineers, Inc. performed a site review of an expanded site, which was known as the Upper to Lower Falls Site. This investigation was contracted by RG&E and focused on

the RG&E properties within the boundaries of the Upper to Lower Falls Site.

In 1988, Recra Environmental, Inc. (formerly Recra Research, Inc.) performed an expanded Phase I Investigation of the Upper to Lower Falls Site. This investigation was contracted by the NYSDEC.

In 1992, Atlantic Environmental Services, Inc. (Atlantic) completed a site investigation of the West Station MGP Site although a vast portion of the work was performed by META Environmental, Inc. under a research contract to the Electric Power Research Institute (EPRI) and RG&E. This investigation included the entire Beebee Station property.

In 1992, Atlantic completed the Phase I Site Management of the West Station MGP site. The project consisted of excavation and removal of coal tar soils in Area A.

In 1994, Fluor Daniel GTI, Inc. (formerly Groundwater Technology, Inc., and referred to hereafter as Fluor Daniel GTI), performed the Phase II Site Management (Test Burn) of the West Station Site. This project was completed to evaluate the operational and economic feasibility of co-burning a mixture of MGP residuals and coal in the Beebee Station power plant.

In 1996, Fluor Daniel GTI completed the Phase III Site Management. This phase of the remedial work involved the excavation and processing of source materials (coal tar soils and coal tar) to create an alternative fuel product that was sent to an off-site power plant for combustion. This phase of the Site Management program completed remediation in the Park Area in accordance with the Voluntary Agreement (see **appendix A**).

3.4.2 Lower Falls Site Phase I Investigation

The first environmental investigation near the West Station Site was completed in 1985 by Recra Research, Inc., of Amherst, New York. This Phase I Investigation is documented in the report *Engineering Investigations at Inactive Hazardous Waste Sites in the State of New York, Phase I Investigation, Lower Falls Site, Rochester, Monroe County, New York, Site No. 828044*, which was prepared for the NYSDEC by Recra Research, Inc., and dated May 30, 1985.

The purpose of the investigation of the Lower Falls Site was to perform a preliminary Phase I study of the entire area along the Genesee River between Middle Falls and Lower Falls. The former Lower Falls Site covered approximately 20 acres in the City of Rochester. A focal point of the investigation was the presence of chemical seeps on the face of Lower Falls which had been recognized as early as 1974.

The report states that two areas within the Lower Falls Site were used for disposal, a former industrial area along both banks of the Genesee River between Middle and Lower Falls and the former Deep Hollow Ravine which was completely filled in and developed. Reportedly, the wastes deposited in these areas included construction debris and junked automobiles.

3.4.3 Upper to Lower Falls Preliminary Site Review

RG&E contracted Morrison-Knudsen Engineers, Inc. to complete a preliminary site review of the Upper to Lower Falls Site focusing on RG&E properties within the defined boundaries of the site. The resulting report is titled *Preliminary Site Review, NYS Superfund Site No. 828044, June 1986,* prepared by Morrison Knudsen Engineers, Inc., for Rochester Gas and Electric Corporation. The purpose of the site review was to prepare information to assist in a preliminary evaluation of the sources, pathways and contamination noted in the gorge of the Genesee River. The site review included a description of historical activities with respect only to RG&E properties.

The study area of this site review is bounded to the north by Lower Falls and to the south by Upper Falls. State Street/Lake Avenue and St. Paul Boulevard approximated the west and east boundaries respectively. The main focus of the review was on three RG&E properties: the East Gas Station, the West Gas Station, and the Ambrose Street Coal Storage Yard. The site review presents a detailed historical overview of gas manufacturing and other RG&E activities, including their products, by-products and wastes. It also describes the physical environment of the area, emphasizing the hydrology and geology of the study area.

3.4.4 Lower Falls Expanded Phase I Investigation

The 1985 Recra Research Phase I Investigation was amended to include the expanded informal boundaries of the area (Upper to Lower Falls and State Street/Lake Avenue to St. Paul Boulevard) and to incorporate information from additional studies done by RG&E (Morrison-Knudsen Site Review) and the City of Rochester (*Supplemental Report to the Phase I Investigation of the Lower Falls Hazardous Waste Disposal Site, Rochester, Monroe County, New York, NYS Registry No. 828044, June 1986*). The expanded Phase I report is documented in the report *entitled Final Expanded Phase I Investigation, Genesee River Gorge (Lower Falls), Site I.D. 828044,* prepared for NYSDEC by Recra Environmental, Inc., and dated January 1988.

The objectives of this Phase I included expanding the contents of the previous investigation, reviewing current available data, identifying data inadequacies and outlining the initial scope of a remedial investigation.

The expanded Phase I Investigation encompassed the Upper to Lower Falls area and examined past industrial activity in the area as well as the geologic and hydrogeologic characteristics. The investigation included an evaluation of factors relating to the identification of the site contamination and the associated potential public health and environmental impacts.

4

4.0 WEST STATION SITE INVESTIGATION

The investigations described in the previous section were concerned with the entire Upper to Lower Falls area. In 1991, RG&E began its focused investigation limited to the West Station MGP site.

The following sections describe the West Station Site Investigation completed by Atlantic Environmental Services, Inc. (Atlantic), and as detailed in the document titled *Site Investigation Report for West Station MGP Site*, dated June 23, 1992 (herein referred to as the Atlantic Report). The objective of this site investigation was to provide RG&E with the data necessary to characterize the West Station site. The Atlantic Report, as a whole, has not been included as part of the current report. However, relevant information contained in the Atlantic Report has been referenced and/or included where appropriate. The Atlantic Report is on file with RG&E and is also maintained in two document repositories established by RG&E for use by the public. See section 5.2 for more information concerning the Community Outreach efforts related to the West Station MGP site work.

4.1 Introduction

The West Station MGP Site Investigation was a product of RG&E's corporate environmental management program, which evaluates environmental issues at company properties. This program, coupled with RG&E's commitment to the community and its proactive approach to environmental management, led RG&E to address the West Station MGP site. Two primary factors were involved in this determination: (1) the presence of surficial coal tar deposits on remote areas of the site and (2) the potential for public access recreation at the Park Area portion of the site. With the determination made that the West Station MGP site was to be addressed, RG&E initiated an investigation of the site.

4.2 Project Objectives

RG&E teamed with Atlantic and META Environmental, Inc. (META) of Watertown, Massachusetts through the Electric Power Research Institute (EPRI) to conduct a joint research project/remedial investigation at the West Station MGP Site. The primary objectives of the remedial investigation were to:

- define the limits of MGP residual wastes in the Beebee Park Area beyond the visible surface deposits
- determine site-specific bedrock geological conditions

- determine if MGP residual wastes are present in the bedrock
- evaluate the potential soil exposure pathway in the Beebee Park area

The objective of the research project portion of the investigation was to:

- implement the first full-scale use of the micro solvent extraction (MSE) method for determining benzene concentrations
- correlate the results of the MSE method with standard testing methods for total benzene

4.3 Site Investigation

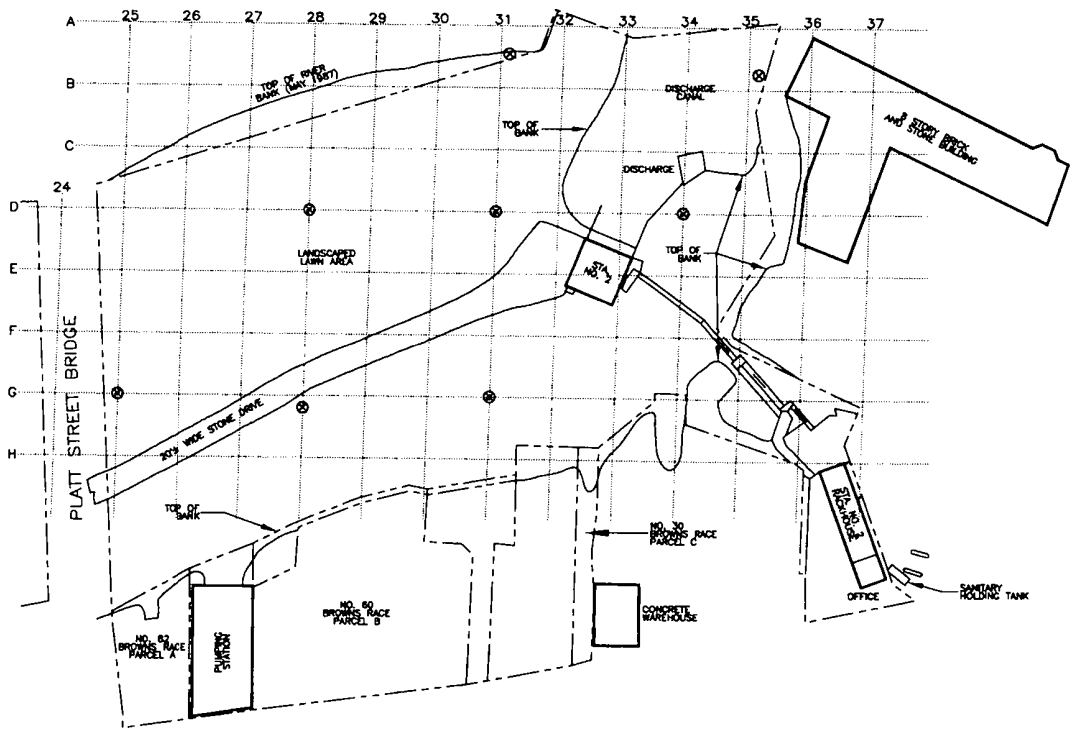
The investigation of the West Station MGP Site encompassed the entire Beebee Station property. Because the purpose of the current report is to detail work completed in the Park Area of the Beebee Station property, only the information produced by the Site Investigation pertaining to this area will be referenced.

The logic path for the site investigation was to first perform a sitewide field screening for potential source areas using soil gas surveying techniques. The intended second step was to use the soil gas data to locate areas to be investigated further by drilling and soil sampling. However, the soil gas survey did not yield results that could effectively be utilized to locate potential source areas. Therefore, the surficial coal tar deposits served as the initial focus of the drilling and sampling program, which was later expanded to the entire property. With the soil conditions defined by the sampling program, the third step, consisting of selecting groundwater sampling locations, could be completed.

4.3.1 Soil Gas Survey

A soil gas survey was performed at the West Station MGP Site during September 1991 as a preliminary evaluation of subsurface conditions. The purpose of the soil gas survey was to provide a rapid field screening to determine the presence of volatile organic compounds (VOCs) within the upper region of the unsaturated zone.

A sampling grid was established using 150-foot intervals in the Park Area. This type of grid layout allowed for eight soil gas sample locations. Of these eight samples, the only sample to produce results indicative of coal tar contamination was G25. See **figure 4-1** for soil gas sample locations in Beebee Park Area. Hence, the results obtained from the soil gas survey did not provide any insight



LEGEND

⊗ SOIL GAS POINT

PROPERTY LINE

BASE MAP SOURCE: ATLANTIC ENVIRONMENTAL SERVICES, INC.

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REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-SGS

SOIL GAS SAMPLING LOCATIONS PARK AREA - 1991

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110-0268	4-1

into the location of MGP residuals beyond that which could be obtained by the location of the surface coal deposits (see **figure 4-2**).

4.3.2 Drilling and Soil Sampling

The drilling program was initiated under the assumption that the surface coal tar deposits represented the center of the subsurface MGP residuals. This was determined to be the most reasonable starting point given the lack of any contrary information from the soil gas survey.

Drilling and soil sampling activities were performed between September and December 1991. Forty borings were completed within the Park Area with the intent of defining the vertical and horizontal limits of the MGP residual wastes. Two borings were finished as groundwater monitoring wells, ten as piezometers, and the remaining borings were backfilled with soil cuttings and grouted to grade with cement. The Atlantic Report contains the boring logs and analytical data from the samples collected. The geologic and hydrogeologic characteristics of the site are discussed in detail within the Atlantic Report.

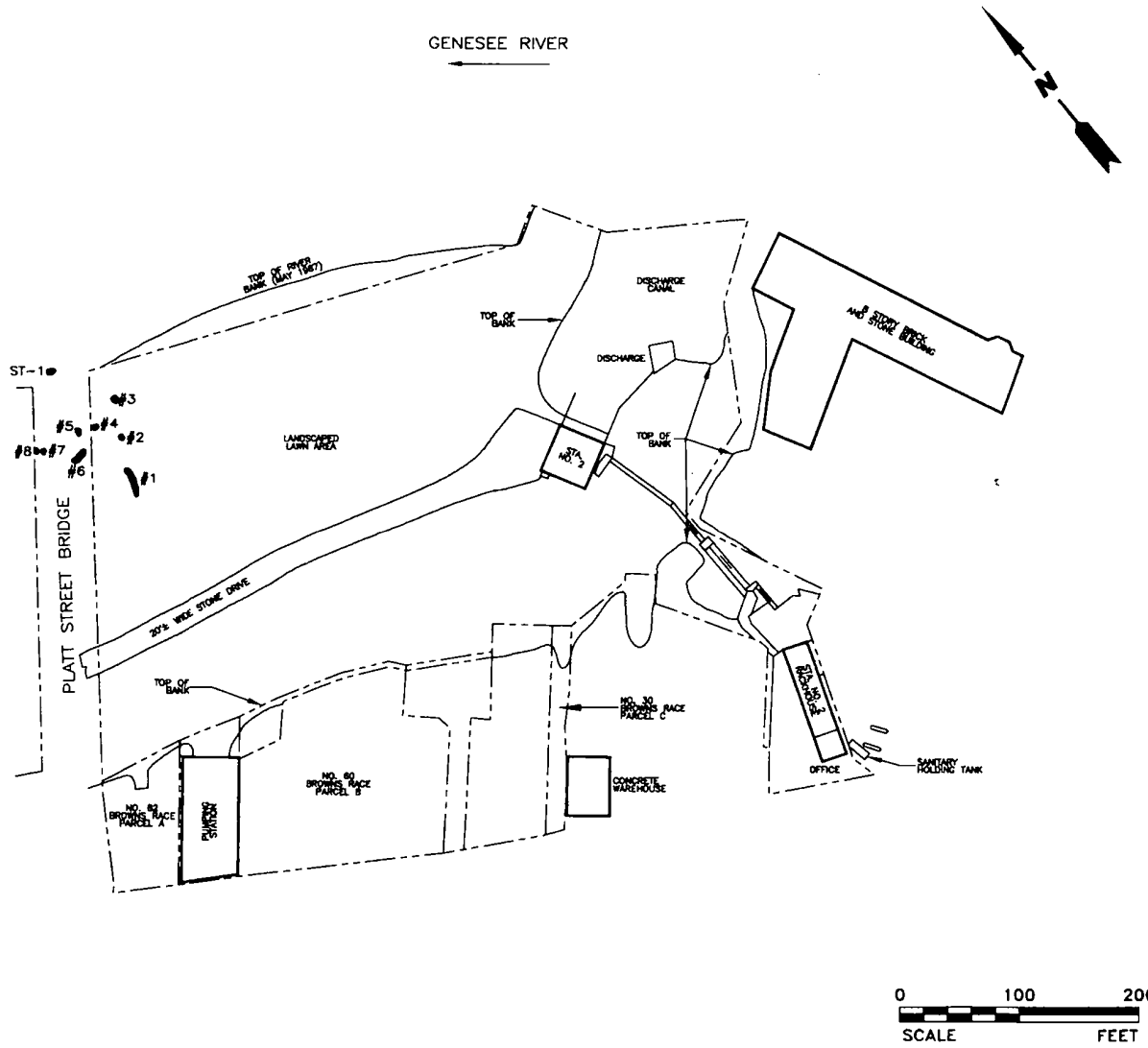
The drilling and sampling process was completed using an iterative sampling approach to locate additional drilling points. The assumption was made that a preestablished grid point near the center of the surface tar deposits approximated the center point of the source area. Eight "sampling spokes," radiating outward from the center in 45-degree intervals, were located and marked. Test points were drilled from the outside of the estimated source area towards the center. Succeeding borings were drilled either closer to or further from the source, depending on the results of the previous boring (i.e., if tar was observed, the next sampling point would be further from the source, if tar was not observed, the next sampling point would be closer to the source). Initially, only the 90 degree spokes were sampled, then the boundary of the coal tar deposits were determined for the remaining spokes. **Figure 4-3** depicts the boring, monitoring well, and piezometer locations. Note that none of these well or piezometer locations currently exist.

Surface soil samples were collected from 10 locations in December 1991. **Figure 4-4** details sample locations and total polynuclear aromatic hydrocarbon (PAH) concentrations for the samples analyzed. Sample SS6 was determined to have been collected from a location beyond RG&E property, therefore that sample was not analyzed.

4.3.3 Site Investigation Results

The results of the site investigation are discussed in detail in the Atlantic Report and provide a description of the geological characteristics of the site, including the lithology and hydrology, and a

description of the chemical analyses resultant from the drilling and sampling program.



LEGEND

#1● PARK AREA SURFACE TAR LOCATION

ST-1● RIVERBANK SURFACE TAR LOCATION

——— PROPERTY LINE

BASE MAP SOURCE: ATLANTIC ENVIRONMENTAL SERVICES, INC.

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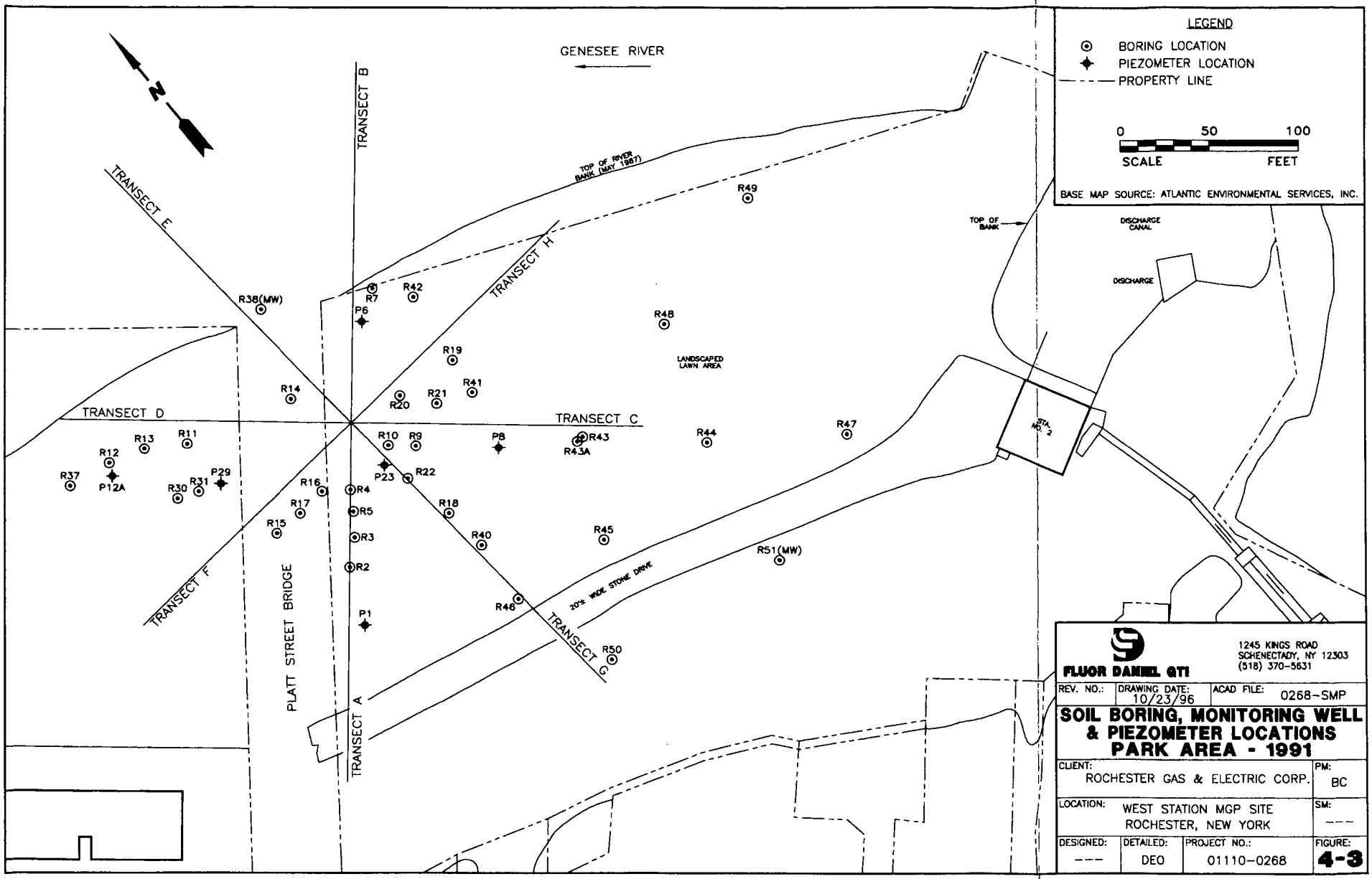
REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-STL

SURFACE TAR LOCATIONS PARK AREA - 1991

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110-0268	4-2



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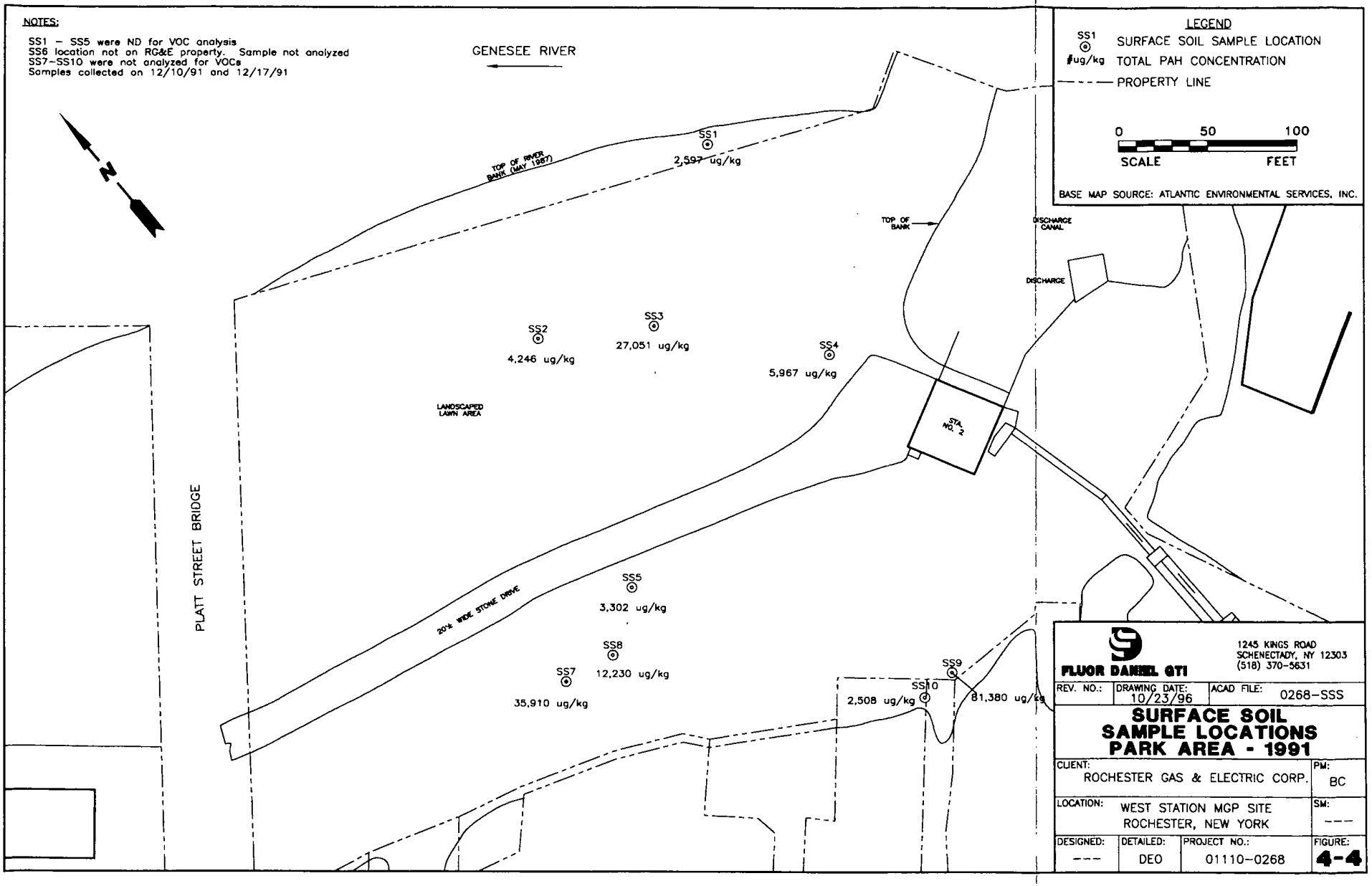
REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-SMP

SOIL BORING, MONITORING WELL & PIEZOMETER LOCATIONS PARK AREA - 1991

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110-0268	4-3



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REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268–SSS

SURFACE SOIL SAMPLE LOCATIONS PARK AREA - 1991

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110–0268	4-4

The site investigation yielded a picture of the site subsurface that is predominantly fill material and extremely heterogeneous in nature. The composition of the fill material varied greatly in both horizontal and vertical directions. Common fill materials encountered included, but were not limited to, brick, ash, slag, coke breeze, cinder, coal, building rubble, and coal tar. The fill was generally 15 to 30 feet thick, extending from the surface down to the underlying natural alluvium.

The investigation also resulted in the conclusion that the MGP residual waste (i.e., coal tar) distribution within the fill zone was apparently random. Supporting this conclusion is the fact that MGP residual wastes were found at multiple depths and in varying thicknesses. Although the wastes were found at random locations, these materials were generally found above the water table.

Approximately 700 samples were collected during the site investigation. The report presents a complete set of data for the samples taken including type, number, location, and analytical results. The analytical results show that a wide range of MGP residual waste concentrations were found at the site. This variance is indicative of the heterogeneous nature of the fill material in the Park Area.

Groundwater samples were collected from three monitoring wells and three piezometers in January 1992. The results of this sampling show no positive detections for any volatile or semivolatile organic compounds in any of the monitoring wells (see **figure 4-3** for locations). The piezometers yielded low concentrations for both mononuclear aromatic hydrocarbons (MAHs) and PAHs. MAH concentrations ranged from non-detect to 0.071 parts per million (ppm) and PAH concentrations ranged from 0.024 ppm to 2.44 ppm. The low levels of MGP residuals in the piezometer samples were consistent with the low levels found in the soil samples from the borings.

A summary of the general conclusions follows:

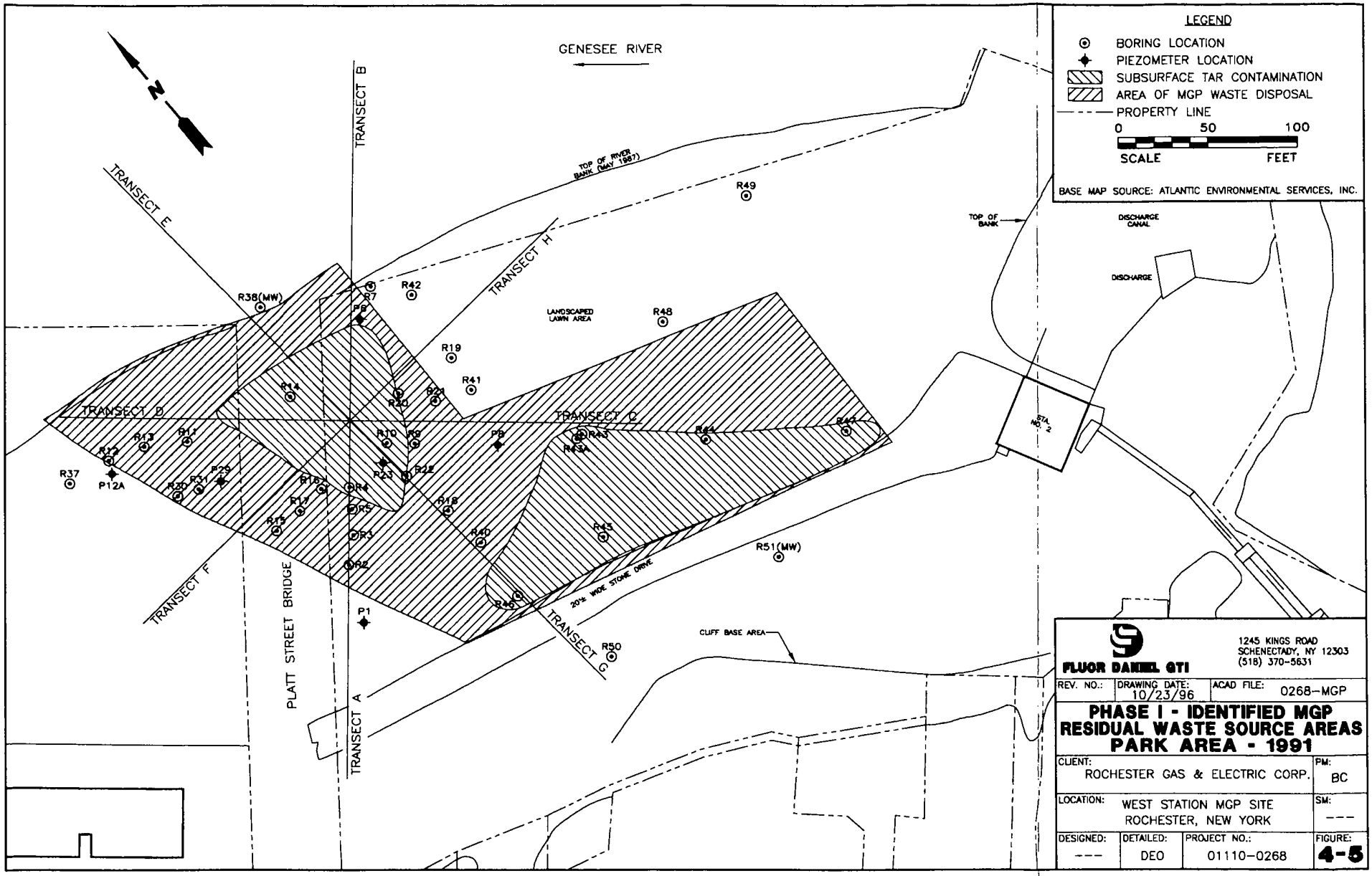
1. MGP residual waste distribution in the Park Area was extremely heterogeneous, which reflects its history as a disposal area. The boring logs and analytical data indicate that although the MGP residual wastes were randomly distributed, they predominantly resided above the water table. Bedrock was found to be much deeper (approximately 40 feet below grade) than anticipated at the outset of the investigation. Therefore the project objective of determining if MGP residuals were contained in the bedrock became irrelevant since MGP residuals were found to reside above the water table which is typically 20 to 25 feet below grade.

2. Surface soil samples indicated that the Park Area contained relatively low levels of MGP residuals. **Figure 4-4** shows the locations of the surface soil samples and the related PAH concentrations. PAH concentrations ranged from 2.5 ppm to 81.4 ppm.

3. The data available as a result of the site investigation indicated the area of concentrated MGP residual waste, specifically coal tar, was located in two zones, as shown in **figure 4-5**.

4. Groundwater samples from the Park Area indicate that there are generally no MGP residual wastes below the water table and no evidence of a residual waste plume in the groundwater. **Appendix B** contains a summary of the groundwater analytical data collected during the site investigation.

5. The results of the EPRI research project are detailed in a report prepared by META which is on file with both RG&E and EPRI. This report details the MSE sampling protocol and the correlation of MSE results to standard method results.



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REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-MGP

PHASE I - IDENTIFIED MGP RESIDUAL WASTE SOURCE AREAS PARK AREA - 1991

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110-0268	4-5

5

5.0 PHASE I SITE MANAGEMENT: AREA A EXCAVATION

The results of the 1991 site investigation guided RG&E into the first phase of site management for the West Station MGP site. The site investigation identified that surface coal tar and corresponding MGP residual waste source areas presented the greatest potential risk for human exposure at the site (see **figure 4-2 and figure 4-5**). RG&E commenced Phase I of the site management program to minimize that risk. The planned work scope included excavation of both areas (see **figure 5-1**) and the off-site thermal destruction of the materials. The following section details the work completed during Phase I site management which occurred during the period from July 1992 through September 1992.

5.1 Introduction

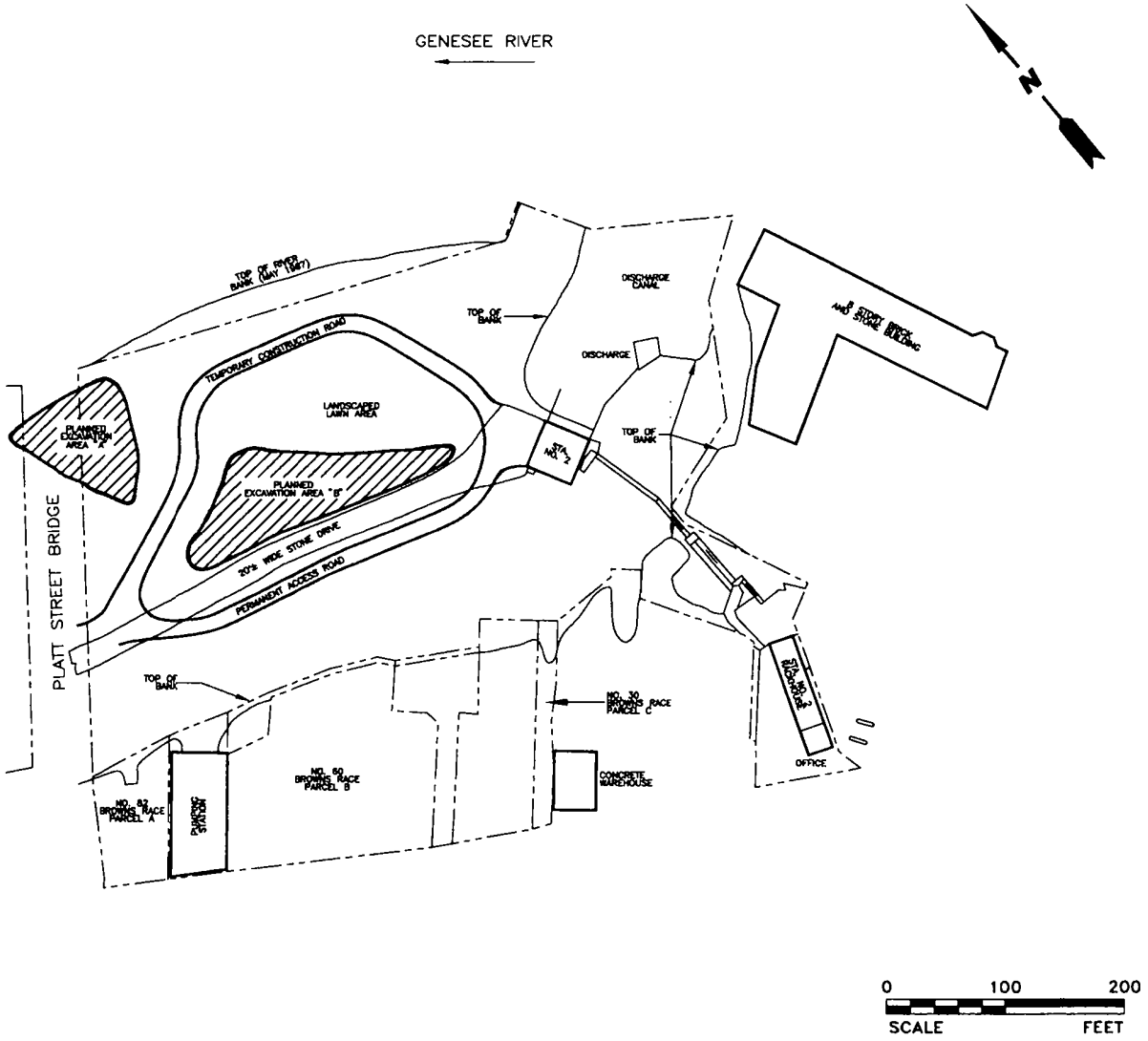
RG&E contracted Atlantic as the site engineer. Prior to work, all required permits from local and state agencies were secured as listed below:

- 6 NYCRR 608 Article 15 Permit
- Street Opening Permit from the City of Rochester
- Full Environmental Assessment Form from NYSDEC and City of Rochester
- Site Preparation Permit from the City of Rochester
- Dumping Permit from City of Rochester
- Approved Truck Traffic Routes from the City of Rochester, and Monroe County
- 6 NYCRR Part 364 Permit (secured by transporter)
- Modification to Monroe County Sewer Use Permit
- Sign Permit from the City of Rochester

The intent of the field work was to excavate the two areas (Area A and Area B) as identified by the site investigation and shown in **figure 5-1**. The removal of these areas would effectively minimize the greatest potential risk of human exposure in the Park Area.

5.2 Community Outreach Program

RG&E developed a written Community Outreach Program designed to inform the public about the remediation project. The Rochester Center for Environmental Information (CEI) developed and implemented the Community Outreach Program throughout the 1992 Area A work to assist RG&E with communicating information to the public. In addition, CEI provided a means to address public concerns regarding the site and remediation work. CEI also served as an independent, community organization, not a spokesperson for RG&E.



LEGEND

PROPERTY LINE

PLANNED SOIL REMEDIATION AREA

BASE MAP SOURCE: ATLANTIC ENVIRONMENTAL SERVICES, INC.

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REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-EXC

PHASE I PLANNED AREAS OF EXCAVATION - 1992

CLIENT:	PM:
ROCHESTER GAS & ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE, ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	DEO	01110-0268	5-1

The main objective of the Community Outreach Program was to assist RG&E with the communication of risks and other information associated with the site and the planned remediation process. Other goals were to create a dialogue between RG&E and the public and to build trust and credibility in the communication strategy and messages.

The implementation of the Community Outreach Program successfully achieved the objectives. This conclusion was based on the information that was available to the public and the feedback received by CEI. The Community Outreach Program also resulted in the creation of a tested communication strategy that was used as a foundation for the future remedial activities. The Community Outreach Program was employed for each remaining phase of site management with similar positive results.

Appendix C contains the executive summary from the Community Outreach Program Final Report prepared for RG&E in regards to the phase I site management. The community outreach program and the final report are on file with RG&E, and the Rochester Center for Environmental Information, and at the Rundel Public Library.

5.3 Area A Excavation

Excavation work began in August 1992. The first area to be excavated was Area A where the surface coal tar deposits were located. A total of approximately 8,100 tons was excavated from Area A, processed, and transported for thermal destruction at several different facilities. **Table 5-1** contains a summary of the amounts and types of materials processed and shipped for treatment, as well as information regarding the treatment facilities.

Coal tar soils from Area A were excavated to a depth of approximately 20 feet below grade. The excavation continued in a particular direction until no significant MGP residuals could be detected using field instruments and visual observations. The limits of the Area A excavation are shown in **figure 5-2**. At the endpoint of the Area A excavation, six confirmatory endpoint samples were collected and analyzed in the field utilizing UV-Fluorescence techniques. **Table 5-2** contains a listing of the endpoint analytical results. Locations of the six confirmatory endpoint samples in Area A are depicted in **figure 5-2**. **Appendix D** contains field notes from the Area A work.

The coal tar soils excavated from Area A were processed through a jaw crusher to reduce the size of the material such that it would meet the acceptance criteria of the thermal desorber treatment facility (and later the cement kiln). Reject generated from this operation was placed onto Area B as detailed in **table 5-1**.

TABLE 5-1
Phase I Site Management Remediation In Area A
Material Inventory Summary

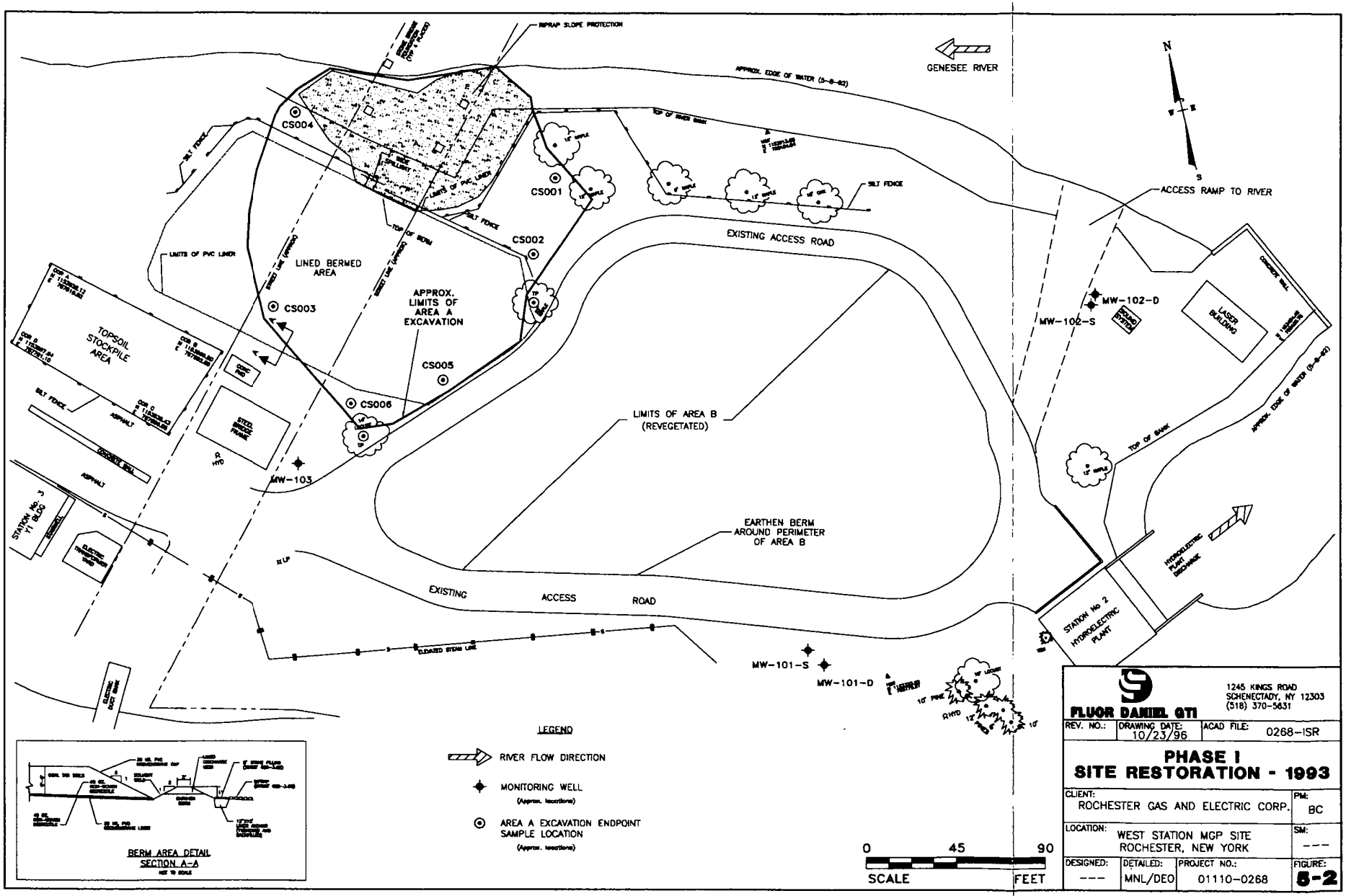
Amount (Tons)	Material Description	Treatment Facility	Facility Location	Type of Facility	Material Disposition
1,100	Coal Tar Soil < 5-inch top size	Envirotech Mid-Atlantic	Fredricksburg, Virginia	Thermal desorber	–
3,000	Coal Tar Soil < 5-inch top size	Giant Resource Recovery	Harleyville, South Carolina	Cement kiln	–
2,000	Coal Tar Soil < 1-inch top size	NYSEG	East Corning, New York	Utility power plant	–
1,500	Coal Tar Soil And Reject > 3-inch top size	—	—	—	Spread in Area B and covered with clean gravel
500	Reject > 3-inch top size	—	—	—	Staged in Area A within liner and cover system

A total of 4,100 tons of coal tar soil less than 5-inch top size was shipped for treatment. The 2,000 tons of coal tar soils sent to the NYSEG facility were processed through a screening plant to achieve the 1-inch top size requirement. Reject from this screening operation was placed within the liner and cover system in Area A (see **figure 5-2** for details). Upon completion of the excavation of Area A, the excavation was backfilled with clean gravel from a DOT Certified borrow source.

5.4 Area B Excavation

The excavation in Area B was started at the southeastern point of Area B (**figure 5-1**). After excavating approximately 50 cubic yards of material, it was evident that the material in Area B was not consistent with that found in Area A. The material encountered in the initial excavation in Area B contained significant amounts of coal tar. Field observations estimated the percentage of coal tar in the material to be as high as 75% by volume. The consistency of the coal tar was of a highly viscous liquid nature while the tar found in Area A was weathered to an asphalt-like state. The materials

processing scheme for the site was designed to accommodate the Area A materials.



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REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-ISR

PHASE I SITE RESTORATION - 1993

CLIENT: ROCHESTER GAS AND ELECTRIC CORP.	PM: BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---
DESIGNED: --- / DETAILED: MNL/DEO / PROJECT NO.: 01110-0268	FIGURE: 5-2

TABLE 5-2
Area A Excavation Endpoint Sample Results

Sample ID	Date	Depth (feet)	UV PAH Result (PPM)	Field Observations
CS001	8/24/92	18	3	Sandy Material
CS002	8/24/92	18	1	Sandy Material
CS003	8/28/92	20	5	Sandy Material, Gravel
CS004	8/29/92	20	3	Sandy
CS005	8/31/92	20	2	Sandy
CS006	8/31/92	20	85	Slag, Sand

The unexpected amount and physical state of coal tar discovered in Area B could not have been effectively processed using the same method as was used for the Area A materials.

At approximately the same time as the Area B discovery (September 1992), the Virginia based thermal desorber began to experience problems treating the coal tar soils shipped there by RG&E. It became evident that the equipment used by the treatment facility was incapable of processing large volumes and throughputs as was the case with this project. RG&E was forced to trans-ship the balance of the coal tar soil previously shipped to the Virginia facility to a cement kiln located in Harleyville, South Carolina. At this point, with unit treatment and disposal costs mounting, and the discovery that the Area B materials were significantly different (at least in part) from Area A materials, RG&E suspended the remedial activities until a complete evaluation of treatment alternatives could be made. The material excavated from Area B was returned to its original location.

5.5 Site Restoration and Development

The conclusion of the Phase I site management work included several steps taken to restore the site. Area A was backfilled to approximately original grade with clean gravel. Rip-rap slope protection was installed in the area of the excavation surrounding the bridge foundation located at the riverbank (**figure 5-2**). A PVC liner and cap system was installed in the location of the former Area A excavation. This system contained staged reject materials as described in the previous section. The

1,500 tons of coal tar soils and reject material were spread onto Area B and capped with a layer of clean gravel. An earthen berm was constructed around the perimeter of Area B to control stormwater runoff. Area B was revegetated to control erosion of the cover layer.

During the Phase I field work, RG&E, in cooperation with the City of Rochester, began to develop a laser light show that would transform the High Falls area into a public attraction. Construction work to complete the laser light show facilities was performed during the Phase I work. This work included the construction of a laser building and a sound system building on Beebee Station property as shown on **figure 5-2**. The creation of the laser light show modified the use of the Beebee Station property to include City workers associated with the laser light show. Although the presence of these workers was limited to the area around the laser and sound system buildings, since there would be more site activity, there was an increase in the potential for human exposure to the MGP residuals. Hence, the covering and staging of remnant materials from the Area A work was completed in order to minimize the potential for human exposure.

5.6 Groundwater Monitoring Well Installation and Sampling

Groundwater monitoring wells were installed in the Park area in August 1993. Five wells were installed at three separate locations (**figure 5-2**). At two of these locations, both a shallow and a deep well were installed (101-S, 101-D, 102-S, 102-D), and at the third location only a shallow well was installed (103). **Appendix B** includes the boring logs from the five groundwater monitoring wells. **Table 5-3** and **table 5-4** contain summaries of analytical results for detected VOCs and SVOCs found during the period from June 1994 to August 1996. These tables contain data from the quarterly sampling of the West Station wells through the completion of Phase III site management. Also contained in these tables are data from a groundwater sample taken prior to the start of Phase III from a temporary sampling point, GEO-1 (see **figure 7-1**). The laboratory report for this sample is also included in **Appendix B**.

TABLE 5-3
West Station Groundwater Sampling Results
Volatile Organic Compounds EPA 8240
Results Reported in $\mu g/L$[1]

Well No.	6/94	9/94	12/94	3/95	6/95	9/95	10/95	2/96	5/96	8/96
101S	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[3]	BDL[3]	BDL[3]
101D	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[3]	BDL[3]	BDL[3]
102S	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[3]	BDL[3]	BDL[3]
102D	acetone – 31 4-methyl,2-pentanone – 13 toluene – 3 —	BDL[2]	BDL[2]	benzene – 22 toluene – 7 ethylbenzene – 12 m,p xylene – 11	BDL[2]	BDL[2]	BDL[2]	BDL[3]	BDL[3]	Benzene – 5.9 Ethylbenzene – 2.3
103	methylene chloride – 4 acetone – 23 toluene – 3	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[3]	BDL[3]	BDL[3]
GEO-1							BDL[2]			

1 Unless otherwise stated, all results were below limit of detection for the method employed.

2 Below detection limits — Detection limits at 3 to 10 parts per billion (ppb). Note: Because of site disturbance caused by remediation activities, no samples were collected from the wells for the fourth quarter of 1995.

3 Below Detection Limits — Detection limits at 2 to 10 ppb.

TABLE 5-4
West Station Groundwater Sampling Results
Semivolatile Organic Compounds EPA 625 (BNA)
Results Reported in $\mu g/L$[1]

Well No.	6/94	9/94	12/94	3/95	6/95	9/95	10/95	2/96	5/96	8/96
101S	bis (2-ethylhexyl)-phthalate – 5	BDL[2]	bis (2-ethylhexyl)-phthalate – 23	BDL[2]	bis (2-ethylhexyl)-phthalate – 7	bis (2-ethylhexyl)-phthalate – 24	BDL[2]	BDL[3]	bis (2-ethylhexyl)-phthalate – 12.4	BDL[3]
101D	bis (2-ethylhexyl)-phthalate – 7	bis (2-ethylhexyl)-phthalate – 6	bis (2-ethylhexyl)-phthalate – 5	bis (2-ethylhexyl)-phthalate – 7 butylbenzyl-phthalate - 15	bis (2-ethylhexyl)-phthalate – 13	bis (2-ethylhexyl) phthalate – 48	BDL[2]	bis (2-ethylhexyl)-phthalate – 11.2	bis (2-ethylhexyl)-phthalate – 23	BDL[3]
102S	BDL[2]	BDL[2]	bis (2-ethylhexyl)-phthalate – 8	bis (2-ethylhexyl)-phthalate – 19	BDL[2]	BDL[2]	BDL[2]	BDL[3]	BDL[3]	BDL[3]
102D	bis (2-ethylhexyl)-phthalate – 7	bis (2-ethylhexyl)-phthalate – 6	bis (2-ethylhexyl)-phthalate – 9	bis (2-ethylhexyl)-phthalate – 11 naphthalene – 11	bis (2-ethylhexyl)-phthalate – 5	bis (2-ethylhexyl)-phthalate – 6	BDL[2]	BDL[3]	BDL[3]	BDL[3]
103	dimethylphthalate – 11	bis (2-ethylhexyl)-phthalate – 5 di-n-butylphthalate – 6	bis (2-ethylhexyl)-phthalate – 17	BDL[2]	bis (2-ethylhexyl)-phthalate – 26	BDL[2]	BDL[2]	bis (2-ethylhexyl)-phthalate – 10.3	BDL[3]	BDL[3]
GEO-1							BDL[2]			

1 Unless otherwise stated, all results were below limit of detection for the method employed.

2 Detection limits for base neutrals are 5 to 10 $\mu g/L$; for acid extractables, detection limits are 5 to 50 $\mu g/L$. Note: Because of site disturbance caused by remediation activities, no samples were collected from the wells for the fourth quarter of 1995.

3 Detection limits for base neutrals are 10 to 25 ppb.

6

6.0 PHASE II SITE MANAGEMENT, TEST BURN

RG&E decided to evaluate the co-burning of the West Station MGP residual wastes at the Beebee Station power plant following the conclusion of the Phase I site management. The co-burning remedial alternative had received considerable attention from the Electric Power Research Institute (EPRI) and the Environmental Protection Agency (EPA) in 1992 to 1993. The following section details the work completed during Phase II of the site management program. This phase of the work is commonly referred to as the Test Burn project.

6.1 Introduction

Fluor Daniel GTI was retained by EPRI in 1994 under contract agreement RP9015-14 to provide management services for the Coal Tar-Coal Mixture Test Burn (test burn) project conducted at the West Station site. This project was conducted in accordance with the NYSDEC approved work plan prepared by RG&E (see **appendix E**). The test burn project was governed by a 6 NYCRR Part 360 Solid Waste Management Facility Research, Development, and Demonstration Permit. Coal tar and coal tar soils stabilized with raw coal were co-fired by RG&E at the Beebee Station facility during on-line power generation operations. The details of the test burn project are documented in the Fluor Daniel GTI draft report *Draft Final Report, Coal Tar - Coal Mixture Test Burn Report, Rochester Gas and Electric Corporation, Beebee Station, March 17, 1995* which was prepared for EPRI and is on file with EPRI and RG&E. A final report is being prepared by EPRI that will incorporate results from three test burns conducted at various utility facilities across the country, of which Beebee Station is one. The following sections summarize the findings of this phase of the site management.

RG&E conducted a wide variety of activities to evaluate the technical and economic feasibility of co-burning MGP residuals with coal. These activities included collecting and evaluating operational (i.e., flow characteristics, equipment wear ratings, ash content, etc.) and analytical data (i.e., bottom ash, fly ash, wastewater, ambient air monitoring, etc.) associated with the pulverized coal boiler at Beebee Station.

6.2 Phase II Site Management Objectives

The purpose of the test burn project was to evaluate the operational and economic feasibility of burning nonhazardous MGP residual wastes mixed with coal, in a pulverized coal, tangentially fired, utility boiler used for electric energy production.

The primary objectives of the test burn project included the following:

- assessment of the quality of the fuel mixture prepared by the blending/sizing/screening process
- documentation and evaluation of feasibility of the co-firing technology
- development of economic data for the co-firing process sufficient to support a go/no go decision

Secondary objectives included the following:

- assessment of the ability of the fuel blending process to produce a consistent quality fuel mixture
- assessment of the ability of the co-firing process to destroy volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) present in the coal tar affected media
- documentation and evaluation of the operating conditions of the process for application to RG&E's MGP sites. This included the characterization of residual materials (waters, solids, ashes) relative to applicable disposal standards and air emissions relative to existing permit limits.

An important goal of this project was to develop reliable operational and cost data for evaluating the viability of this alternative for RG&E and the utility industry in general. There are a number of site-specific factors that affect the cost of this type of project. These factors can vary greatly depending on the site being remediated and the particular boiler being used to burn the residue/fuel mixture.

6.3 Regulatory Permitting

Various permits were determined by RG&E to be necessary; RG&E applied for and received the following permits:

- 6 NYCRR Part 360 RD&D
- Modification to 6 NYCRR Part 364 Industrial Waste Transporter
- Modification to RG&E's Monroe County Sewer Use Permit
- 6 NYCRR 608 Article 15 Permit
- Street Opening Permit from the City of Rochester
- Sign Permit from the City of Rochester

NYSDEC determined that the fuel mixture constituted a solid waste. Ordinarily, the ash from the combustion of a solid waste requires a beneficial use determination (BUD) if reused within New York State. In this case, the fly ash was recycled out of state by RG&E as an ad-mixture to cement manufacturing. RG&E and the NYSDEC therefore concluded that under 6 NYCRR Part 360, a BUD was not required for the reuse of the fly ash. NYSDEC granted the BUD for the bottom ash, however reuse of the bottom ash was disallowed because the pH value of 8.6 exceeded the drinking water standard range of 6.5 to 8.5. In addition, because of matrix interferences, detection limits for certain constituents could not be brought low enough to prove that leachate did not contain other parameters at concentrations above the drinking water standards. For the remaining constituents, drinking water standards were met by the bottom ash extract.

6.4 Phase II Community Outreach Program

Throughout this project, RG&E enjoyed a good relationship with the local community with respect to its environmental management policies and this relationship continues today. The extension of RG&E's Community Outreach Program undertaken for this project was well received. Members of local environmental activist groups (Sierra Club, Adirondack Mountain Club), political groups (League of Women Voters), commercial organizations (Brown's Race Neighborhood Association), and others were invited by RG&E to help RG&E continue to develop the communication program. RG&E took these representatives on guided tours of the excavation area, material processing areas, and inside the power plant. Independent technical advisors chosen by the groups from academia, engineering, and public health disciplines afforded an unbiased opinion to these groups at RG&E's expense. The response of the groups was overwhelmingly positive. Several newspaper articles appeared in support of the test burn program. An unsolicited letter from the director of the Monroe County Department of Health was received by the NYSDEC in support of the program. The City of Rochester Department of Environmental Services also sent a letter to the NYSDEC in support of the work. RG&E did not receive a single telephone call or letter stating a negative opinion of the test effort, nor did such opinions appear in the local media. **Appendix C** contains RG&E's Community Outreach Program for the Phase II effort, and also is on file with RG&E, the Rochester Center for Environmental Information, and at the Rundel Public Library.

6.5 Phase II Material Processing Activities

The following section describes the field work performed at the West Station site from May 31, 1994, to August 12, 1994. A significant factor influencing field activities was the concentration of benzene in the coal tar. TCLP extract of the coal tar contained up to 7.5 ppm benzene. Ordinarily, such materials

would be considered characteristically hazardous waste. Given this fact, field activities were designed to remove the hazardous characteristic. The process used to render the MGP residuals nonhazardous was based on the MGP Site Remediation Strategy prepared by the Edison Electric Institute Manufactured Gas Plant Subcommittee dated February 1993, and approved by the EPA on April 26, 1993. A description of the technique is contained in the Phase II work plan found in **appendix E**.

6.5.1 Mobilization and Site Layout

The equipment mobilized to the site included the following:

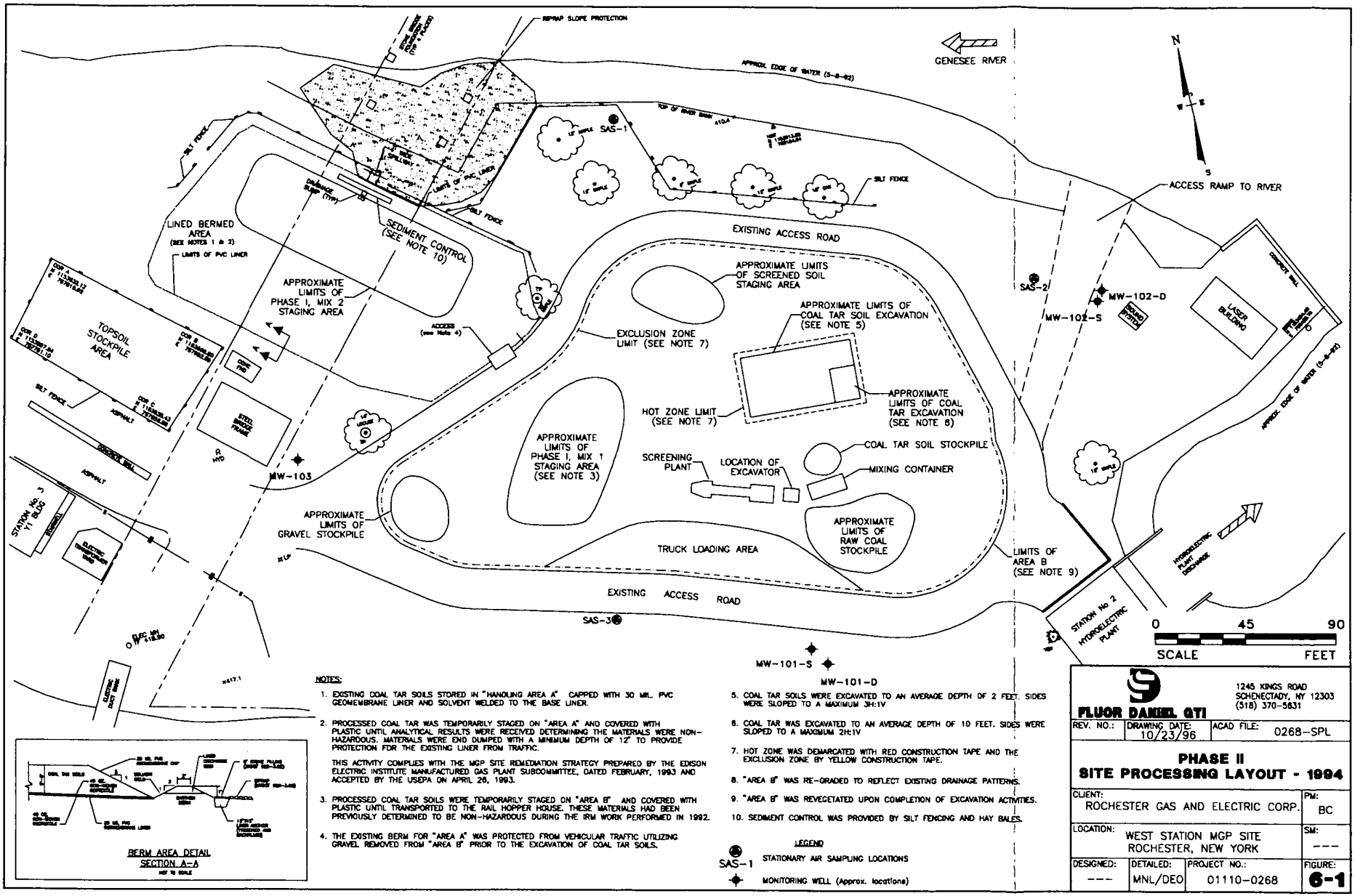
- screening plant (Kolberg Model 271 with hammermill, sweeper magnet, and belt scale)
- excavator (Link-Belt LS-2700)
- wheel loader (Cat 950)
- dozer (Case 450)
- dump trucks (6-wheel, 10-wheel)
- water truck (1000-gallon capacity)
- steel mixing container (custom fabricated by RG&E, designed to meet RCRA 90-day storage requirements)
- health and safety monitoring and emergency response equipment

Before excavation activities, both the exclusion and hot zones were demarcated using red and yellow safety tape (**figure 6-1**) and secured. The upper 6 inches of clean gravel from Area B (**figure 6-1**) was removed and temporarily staged in the eastern portion of Area B. Runoff control was provided by the earthen berms around the perimeter of Area B. The general layout of equipment allowed for efficient handling of the materials at the site.

6.5.2 Fugitive Emission and Odor Control

Dust and odors encountered during the project had to be continually controlled. Low levels of fugitive dust were liberated during various site activities. The majority of the dust was made airborne by the loader, excavator, and truck traffic within Area B. The method used to control fugitive dust was to spray the entire work zone with water. The frequency of this activity was approximately every 3 hours. A certain amount of dust came from the traffic on the access road encircling Area B. Although

this access road is in a designated clean area, the road was also wetted.



BERM AREA DETAIL
SECTION A-A

NOTES:

1. EXISTING COAL TAR SOILS STORED IN "HANDLING AREA A". CAPPED WITH 30 MIL. PVC GEOMEMBRANE LINER AND SOLVENT WELDED TO THE BASE LINER.
2. PROCESSED COAL TAR WAS TEMPORARILY STAGED ON "AREA A" AND COVERED WITH PLASTIC UNTIL ANALYTICAL RESULTS WERE RECEIVED DETERMINING THE MATERIALS WERE NON-HAZARDOUS. MATERIALS WERE END DUMPED WITH A MINIMUM DEPTH OF 12" TO PROVIDE PROTECTION FOR THE EXISTING LINER FROM TRAFFIC.

   THIS ACTIVITY COMPLIES WITH THE MGP SITE REMEDIATION STRATEGY PREPARED BY THE EDISON ELECTRIC INSTITUTE MANUFACTURED GAS PLANT SUBCOMMITTEE, DATED FEBRUARY, 1993 AND ACCEPTED BY THE USEPA ON APRIL 26, 1993.
3. PROCESSED COAL TAR SOILS WERE TEMPORARILY STAGED ON "AREA B" AND COVERED WITH PLASTIC UNTIL TRANSPORTED TO THE RAIL HOPPER HOUSE. THESE MATERIALS HAD BEEN PREVIOUSLY DETERMINED TO BE NON-HAZARDOUS DURING THE IRM WORK PERFORMED IN 1992.
4. THE EXISTING BERM FOR "AREA A" WAS PROTECTED FROM VEHICULAR TRAFFIC UTILIZING GRAVEL REMOVED FROM "AREA B" PRIOR TO THE EXCAVATION OF COAL TAR SOILS.
5. COAL TAR SOILS WERE EXCAVATED TO AN AVERAGE DEPTH OF 2 FEET. SIDES WERE SLOPED TO A MAXIMUM 3H:1V
6. COAL TAR WAS EXCAVATED TO AN AVERAGE DEPTH OF 10 FEET. SIDES WERE SLOPED TO A MAXIMUM 2H:1V
7. HOT ZONE WAS DEMARCATED WITH RED CONSTRUCTION TAPE AND THE EXCLUSION ZONE BY YELLOW CONSTRUCTION TAPE.
8. "AREA B" WAS RE-GRADED TO REFLECT EXISTING DRAINAGE PATTERNS.
9. "AREA B" WAS REVEGETATED UPON COMPLETION OF EXCAVATION ACTIVITIES.
10. SEDIMENT CONTROL WAS PROVIDED BY SILT FENCING AND HAY BALES.

LEGEND

SAS-1 STATIONARY AIR SAMPLING LOCATIONS

MONITORING WELL (Approx. locations)

FLUOR DANIEL GTI
1245 KINGS ROAD
SCHENECTADY, NY 12303
(518) 370-5831

REV. NO.:	DRAWING DATE: 10/23/96	ACAD FILE: 0268-SPL

PHASE II
SITE PROCESSING LAYOUT - 1994

CLIENT: ROCHESTER GAS AND ELECTRIC CORP.		PM: BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK		SM: ---
DESIGNED: ---	DETAILED: MNL/DEO	PROJECT NO.: 01110-0268

FIGURE: 6-1

Odors were controlled at the site using polyethylene sheeting to cover excavated contaminated soil and blended fuel stockpiles; maintaining a small open excavation at all times; and by minimizing the time period during which unblended feed stocks were allowed to remain on site. The addition of coal to the tar and contaminated soil feed stocks seemed to reduce detectable odors. The Phase II project was completed without complaints from local businesses or the public.

6.5.3 Coal Tar Soil Processing

The processing activities completed on site were not intended to chemically or physically stabilize the material (coal tar soils were non-hazardous to begin with), rather to create a mixture that could be blended with additional coal by the existing coal handling equipment at Beebee Station to reach the desired fuel quality. Evaluation of material handling, equipment wear, and bottom ash and fly ash characteristics occurred using samples collected from within the boiler facility.

Processing of the coal tar soil with coal began by excavating an area approximately 33 feet wide by 66 feet long and 2 feet deep. Because the coal tar soil was nonhazardous and managed within bermed Area B, it was stockpiled next to the mixing container to allow for a more efficient mixing with coal. At the completion of work each day, this stockpile was covered with 6-mil polyethylene sheeting and anchored in place to minimize odors and unnecessary moisture build-up resulting from overnight precipitation.

The processing technique implemented for this segment of the project consisted of blending source material (coal tar soils) with raw coal in the steel mixing container. This was done using predetermined weight ratios of coal tar soil to coal. Field measurements and calculations were made to determine the volumetric ratios needed to create the mixtures. Two mixtures were created using coal tar soil. The first mixture contained 15% coal tar soil by weight and the other contained 26% coal tar soil by weight.

The coal used in the processing was supplied by RG&E from the coal stockpile area at the northern end of the Beebee Station facility. A stockpile of coal was maintained at all times so as not to limit the rate of the blending process.

The processing of the coal tar soil began with the calculation of the volumetric ratios to be used to create the specified fuel blend. Densities of both the coal tar soil and coal were calculated by weighing a known volume, as measured by bucket capacity, across the screening plant belt scale. With the densities known, the ratio of excavator buckets of coal tar soil to buckets of coal was calculated. The necessary amounts of each feed stock (coal tar soil, coal) were placed into the mixing container and mechanically homogenized with the excavator. Material was then sent through the

screening plant where several additional processing steps occurred. First, oversize material greater than 6 inches was removed using the grizzly screen. Second, material was blended further and broken down (or shredded) by the high-rpm hammermill. Third, tramp metal was removed by the bar magnet located above the conveyor belt. Fourth, material was conveyed across the belt scale to the vibrating deck screen. The fifth step was the screening of the material through two layers of screens. These screens separated material greater than 0.75 inches from the final blended fuel product. The screening plant discharge generated two stockpiles: a final blended fuel product and a reject material stockpile. The reject material was reprocessed twice through the screening plant because it typically contained a significant amount of coal.

6.5.4 Coal Tar Processing

The coal tar was excavated from beneath the coal tar soils (**figure 6-1**). The depth of the top of the coal tar layer in this particular area of the site was approximately 4 feet below grade. The size of the excavation for coal tar was approximately 10 feet deep, 20 feet long, and 10 feet wide. While there were discrete layers of pure coal tar, it was observed to be largely commingled with rocks, bricks, soils, scrap steel, coke, ash, and demolition debris.

The stabilization technique implemented for this segment of the project consisted of blending the source material (coal tar) with raw coal in the mixing container. This was done using predetermined weight ratios of coal tar to coal. The two mixtures produced during the blending of coal tar contained 2% and 4% by weight coal tar. In this case, coal was added to make the tar a more easily handled fuel product and to adsorb the benzene contained within the coal tar.

Field measurements and calculations as described in section 6.5.3 were made to calculate volumetric ratios needed to create the stabilized mixture. Sampling and analysis were performed on the first two batches of the coal tar blend. The results showed that after the coal tar was stabilized with the coal, the mixture no longer exhibited a hazardous waste characteristic.

Per agreement with NYSDEC and referenced in a letter prepared by RG&E dated April 29, 1994, the remaining fuel blends could be stockpiled in Area A before receipt of analytical data. None of these materials, however, could be burned at Beebee Station without receipt of the benzene analytical results (bearing in mind that the coal tar had the potential to exhibit no TCLP characteristic other than benzene).

The stabilization of the coal tar proceeded in the following manner. Approximately one half of the needed volume of coal was placed in the mixing container, then the excavated material containing coal tar was placed in the mixing container. The excavator was used to mix the tar into the coal. This

mixing step continued until a visually homogenous mixture was observed. The stabilized material was then processed through the screening plant. As with the coal tar soil blend, two streams were discharged from the plant. Final product was stockpiled and reject material was reprocessed twice to reclaim as much coal as was practicable.

6.5.5 Material Staging

The coal tar soil fuel blends were staged within the limits of Area B near the discharge end of the screening plant (**figure 6-1**). The stockpile was covered daily with 6-mil nylon-reinforced polyethylene sheeting. The staged materials remained covered except to facilitate access by equipment. All coal tar fuel blends were staged within Area A (**figure 6-1**). Before staging any material, Area A was prepared. The existing 30-mil PVC geomembrane cap was removed to expose the approximately 500-ton stockpile from the Phase I Area A excavation. These materials consisted of coal tar soils, rocks, bricks, and demolition debris. All exposed material was transferred to Area B. The two layers of 40-ounce non-woven geotextile and the 30-mil PVC geomembrane liner remained in Area A to serve as containment for the coal tar fuel blends.

Surface water runoff was directed by virtue of the slope toward the existing sump area located in the north-central portion of Area A. As an additional control measure, a temporary sediment control structure was constructed (**figure 6-1**). Water that collected in the drainage sump within Area A was analyzed, removed, and disposed of by RG&E into the Monroe County POTW according to an agreement with the Monroe County Department of Pure Waters. The discharged water met the limit for the organic constituent concentration. The limit was set at 2 parts per million of total toxic organics as determined by EPA Methods 612 and 625.

6.5.6 Transportation and Fuel Delivery

Transportation of materials was performed by RG&E's subcontractor using 6 and 10-wheel dump trucks. These materials were transported from their respective staging areas to the Beebee Station fuel loading area (rail house hopper). Each shipment was accompanied by a straight bill of lading which documented the net weight of the load, origin, shipper, destination, and shipment number. Because the route to the fuel loading area required the materials to be transported over a distance of approximately 200 yards on a public road, RG&E received a modification to their 6 NYCRR 364 Industrial Waste Transporters Permit to include the contractor dump trucks.

Trucks were loaded within Area A or Area B to avoid spilling any material onto the access road. All truck loads were dumped at the rail house hopper. Scheduling of shipments was coordinated with Beebee Station operations personnel.

During the test burn project, RG&E performed additional blending of the coal tar soil mixtures with coal at the rail hopper house to create the fuel mixture as burned in the boiler. Raw coal from the north rail hopper was fed along with the coal tar soil blends from the south rail hopper to meet the fuel specifications required by the power plant. RG&E operations personnel controlled the feed rate from both hoppers, equipped with vibratory feeders, to achieve final fuel mixture ratios. The coal tar fuel blends did not require blending with raw coal at the rail hopper. These materials were introduced directly into the power plant as final fuel mixtures and burned.

6.5.7 Demobilization

Demobilization activities began on July 29, 1994. All equipment was thoroughly washed using a high-pressure washer. Decontamination occurred within the boundary of bermed Area B. All equipment except for the mixing container was removed from the site. The decontaminated mixing container was stored on site adjacent to Area A. Area B was regraded with the existing clean gravel that was stockpiled at the start of the test burn project. The berm was left in place completely surrounding Area B. **Figure 6-2** details the conditions of the site at the completion of Phase II site management.

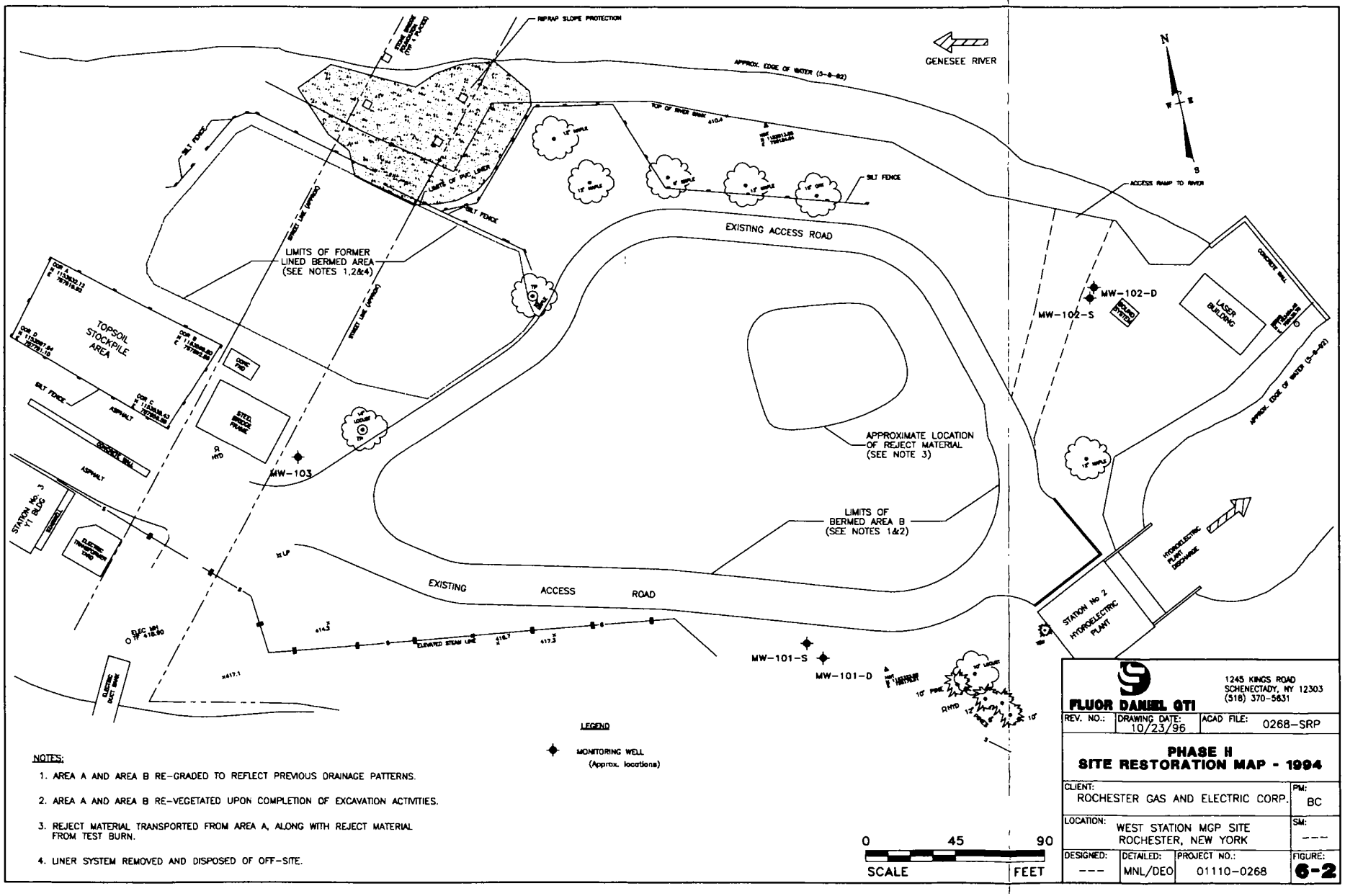
Before removing the liner system in Area A, a visual inspection of the system was conducted. The liner system appeared to be in good condition with no obvious rips, tears, or other deformities.

6.5.8 Health and Safety Summary

The Health and Safety Program developed and implemented by RG&E for the test burn project was consistent with the NYSDEC guidance document (TAGM 4031), the requirements of the Monroe County Health Department (MCHD), the Occupational Safety and Health Administration (OSHA) standard 29 CFR 1910.120 to minimize exposure of workers, and OSHA standard 1926.650 for excavation and trenching.

All site activities were conducted under the site-specific Health and Safety Plan (HASP). This plan was submitted to the NYSDEC and MCHD for review before the initiation of site activities. The HASP, on file with EPRI and RG&E, incorporated the following critical information:

- Emergency Response
- Hazard Evaluation
- Documentation Requirements
- Personal/Ambient Air Monitoring
- Contingency Protocols
- Daily Tailgate Safety Meetings



LEGEND

◆ MONITORING WELL (Approx. locations)

NOTES:

1. AREA A AND AREA B RE-GRADED TO REFLECT PREVIOUS DRAINAGE PATTERNS.
2. AREA A AND AREA B RE-VEGETATED UPON COMPLETION OF EXCAVATION ACTIVITIES.
3. REJECT MATERIAL TRANSPORTED FROM AREA A, ALONG WITH REJECT MATERIAL FROM TEST BURN.
4. LINER SYSTEM REMOVED AND DISPOSED OF OFF-SITE.

SCALE 0 45 90 FEET

FLUOR DANIEL GTI
1245 KINGS ROAD
SCHENECTADY, NY 12303
(518) 370-5831

REV. NO.:	DRAWING DATE:	ACAD FILE:
	10/23/96	0268-SRP

PHASE II SITE RESTORATION MAP - 1994

CLIENT: ROCHESTER GAS AND ELECTRIC CORP.		PM: BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK		SM: ---
DESIGNED: ---	DETAILED: MNL/DEO	PROJECT NO.: 01110-0268

FIGURE: 6-2

Air Monitoring Program. The scope of the air monitoring program was developed based on the residues suspected at the site. This knowledge was generated during previous subsurface investigations, air quality monitoring results obtained at the site during the 1992 Phase I coal tar soil processing activities, and experience at similar MGP sites. The contaminants monitored were benzene and fugitive respirable particulates in the size range of 0.1 to 10 microns. Air monitoring was performed using a combination of stationary and portable sampling equipment and real time monitoring instruments. The objectives of the stationary sampling effort were to establish baseline concentrations for the contaminants of concern before initiation of site activities, verify that critical operations were accurately being assessed with real time monitors, and determine whether the site was returned to normal levels at the completion of the project. Low-flow personal air pumps were used to collect breathing zone air samples for the site workers. The objective of the real-time monitoring was to measure particulate and volatile organic compound (VOC) air emissions on a daily basis.

Pre-Activity Air Sampling. Pre-work baseline air samples were collected on June 7, 1994. One air sample was collected from each stationary air sampling location (**figure 6-1**) and analyzed for benzene. The data revealed that benzene was not detected in the ambient air.

Particulate levels were monitored on June 6, 1994, using a MINIRAM real time monitor. The results were documented and indicated that the ambient particulate levels averaged 0.20 mg/m³ with a peak reading of 0.42 mg/m³. The particulate readings can be attributed to ambient dust, a high pollen count, and mist from the nearby waterfall.

Routine Sampling. Normal site activities occurred between June 8, 1994, and July 29, 1994. VOC levels were monitored with a photoionization detector (PID) with an 11.7 eV probe. Air monitoring data indicates that organic vapor levels did not exceed the instrument's lower detection limit during site activities.

Particulate levels were also monitored during the site activities. The adjusted action level was derived by adding the action level of 0.15 mg/m³ to the average baseline reading of 0.20 mg/m³. The adjusted action level was 0.35 mg/m³. The adjusted action limit was exceeded slightly on July 14, 1994, during processing operations. Because of this exceedance, control measures (i.e., watering of site) were implemented. Subsequent measurements indicated that the control measure adequately addressed the nuisance dust and particulate issue.

All routine air monitoring results were sent to the MCHD on a daily basis to allow for immediate access of information and response, although no action was taken by MCHD during the test burn project.

Post Activity Air Sampling. Post-activity air samples were collected on September 15, 1994, for benzene. The samples were collected from the same locations as the pre-activity air samples. Laboratory results show that no benzene was detected in the ambient air subsequent to the test burn project.

Industrial Hygiene Sampling. Air sampling for respirable particulate and crystalline silica for the excavation of coal tar and coal tar soil was conducted by RG&E's Certified Industrial Hygienist as "area monitoring" to represent worst-case exposure scenarios rather than an employee's personal exposure. The area samples were collected in areas of direct employee contact with the mixture as well as one area where the mixture was heated and pulverized. All samples were collected as general area samples.

In addition, samples were collected inside the excavator and inside the loader during the excavation and screening operation, inside the rail hopper house during the delivery of both coal and the coal tar soil, inside the bunker receiving area during delivery of fuel mixtures to the bunker, and outside the bowl mill during pulverizing of the mixture.

The sample results indicate that no detectable concentrations of PAHs were found in any of the areas monitored. The results also indicate exposure concentrations of respirable particulate and crystalline silica ranged from below detectable limits to 0.37 mg/m³ for the respirable particulate and 0.015 mg/m³ for crystalline silica. All detectable concentrations were well below the OSHA personal exposure limits (PEL). No sample collected during this survey exceeded the OSHA PEL indicating no significant exposure to any employee involved in this project.

6.6 Operational Evaluations

Several operational conditions were inspected and samples collected (as appropriate) to evaluate potential fuel handling problems such as balling and pasting of fuel in the mills and fuel delivery equipment (belts and rollers, piping, etc.); wear on mills; bridging in bunkers, etc. Various waste streams (i.e., fly ash, bottom ash, wastewater, etc.) were also sampled and analyzed for comparison with burning 100% coal.

Many operational evaluations were completed during the test burn project and are discussed in detail in the Test Burn Report. These operational conditions are listed below:

- mill wear
- mill load

- fuel flow characteristics
- gas precipitator performance
- volatile organics present in bottom ash
- odors within the power plant
- boiler operation
- fly ash characteristics
- bottom ash characteristics
- fuel quality
- flow characteristics of bottom ash
- ash fusion temperatures
- wastewater discharge chemistry
- boiler efficiency

6.7 Media Sampling Activities

All sampling activities were completed under the direction of the guidelines set forth in the Work Plan compiled by RG&E and approved by the NYSDEC. As described in the Work Plan and the Sampling and Analysis Plan, specific field sampling and QA/QC procedures were employed to ensure the integrity, validity, and usability of the analytical results produced in support of the test burn project. Various material processing and operational/facility analytical data were collected by RG&E. Material processing analyses were conducted by META Environmental, Inc. (META) of Watertown, Massachusetts, and National Environmental Testing, Inc. (NET) of Bedford, Massachusetts. META and NET are New York State ELAP Certified Laboratories. All other fuel stream analyses were conducted by RG&E's laboratory or subcontracted laboratory. Air emission samples from the utility boiler stacks were collected and analyzed by Galson Source Emission Testing of Syracuse, New York, under contract with RG&E. All analytical data are presented in the test burn report.

6.8 Test Burn Project Conclusions

The test burn project at RG&E West Station indicates that co-firing of MGP residual wastes with coal in utility boilers may be a cost-effective remedial technology for similar sites. This test burn project was consistent with the MGP site remediation strategy document prepared by the Edison Electric Institute Manufactured Gas Subcommittee, dated February 1993. The project showed that the strategy is a successful alternative for the treatment and destruction of coal tars and coal tar soils. The blending technology also produced a consistent quality fuel mixture.

The technique of using material densities and volumetric ratios to obtain desired mass ratios of fuel mixtures was successful. For future blending operations, a more reliable and consistent secondary fuel blending system is needed to replace the vibratory feed system located within the power plant. Generally, the on-site fuel blending process resulted in a precision of +/- 10% with respect to the amount of residues in the fuel mixtures. This was attributed to the sensitivity of controlling blending procedures with heavy equipment.

7

7.0 PHASE III SITE MANAGEMENT, COMPLETION OF REMEDIATION

The following section describes the completion of the West Station MGP Site remediation with respect to the area defined by the Voluntary Agreement (**appendix A**). This section contains details of all site activities, remedial methods, and results.

7.1 Introduction

The Phase II test burn project afforded RG&E the opportunity to thoroughly evaluate the option of co-firing the remainder of the West Station MGP residual wastes at the Beebee Station power plant. The evaluation involved the consideration of several factors including the operational effects on the power plant, the potential for increased maintenance (e.g., mill overhaul, fuel elbow replacement, etc.), feasibility of obtaining a 6 NYCRR Part 360 Permit (cost and time frame), and project duration to co-fire all MGP residuals at the relatively low percentages of 5% coal tar soils and 4% coal tar. Upon examination of the applicable factors involved, and the existence of a similarly priced alternative at New York State Electric and Gas (NYSEG) Corporation's Hickling Station, RG&E determined that the option of burning at Beebee Station would not meet the internal and external objectives of the company.

Two items were critical in the logic flow path for the Phase III remediation project. First, the groundwater monitoring program for the site indicated that there were no impacts to the groundwater from the West Station MGP residual wastes. This fact was crucial to the development of the Phase III work plan. Second, RG&E intended to make the property available to the City of Rochester for use as a public access recreation area. Therefore, the remediation strategy had to account for the eventual public occupation of the land, which necessitated the elimination of potential exposure to MGP residual wastes.

The Phase III field work was completed in two steps. First, the top 8 feet of coal tar soil within Area B were excavated, processed and transported to the treatment facility (October 1995 to December 1995). Second, coal tar from below 8 feet was excavated, stabilized (blended), processed, and shipped for treatment. These field work tasks are detailed in the following subsections.

7.1.1 Treatment Alternatives

RG&E had evaluated several treatment alternatives for the coal tar soils. After much study and comparison, co-firing in another utility boiler afforded the best combination of cost and logistics. RG&E selected NYSEG's Hickling Station because of its proximity, cost, and effectiveness.

Limited treatment alternatives were available for coal tar because of the potential for the tar to exhibit a hazardous waste characteristic for benzene.

The options that were evaluated included the following:

- incineration at a hazardous waste permitted facility
- reclamation at a tar recycling facility
- stabilization of coal tar and co-firing at the utility boiler facility

Upon examination and evaluation of the available alternatives, and using the framework of RG&E project goals (i.e., cost, project schedule), the decision was made to transport the pure coal tar to the tar recycling facility located in Wooster, Ohio.

7.2 Phase III Objectives

The ultimate objective of the Phase III remediation project was to remediate the portion of the Park Area defined by the Voluntary Agreement in a manner acceptable to the NYSDEC such that a transferrable release and covenant not to sue would be granted to RG&E. Upon acceptance by NYSDEC of the completed remediation, the parcel may be used for any number of commercial, industrial or recreational purposes subject to certain restrictions to be written into the property deed.

7.3 Regulatory Permitting

The following permits were determined to be required for various project activities, and were applied for and secured:

- 6 NYCRR 608 Article 15 permit (superseded by Voluntary Agreement)
- Street Opening Permit from the City of Rochester
- Fill Permit from City of Rochester
- Sign Permit from City of Rochester

In addition to the above-referenced permits, RG&E entered into a Voluntary Agreement with the NYSDEC concerning the remediation project (a copy has been included as **appendix A** of this report). The Voluntary Agreement contained the work plan for the Phase III effort and governed the project.

7.4 Community Outreach Program

Throughout the duration of all phases of the West Station MGP site management program, RG&E has maintained a successful community outreach program. The community outreach program has been detailed in sections 5.2 and 6.4. The Phase III remediation project was completed in a manner consistent with the program. The goals, objectives, and outcomes were similar to the community outreach efforts for the previous phases of work. A copy of the Community Outreach Program for Phase III is included within the Voluntary Agreement (**appendix A**). **Appendix C** contains a copy of the executive summary from the final report of the Phase III Community Outreach Program.

The Phase III Community Outreach Program was developed to assist RG&E with public communication about the remediation of the site. The program was implemented from September 1995 until August 1996. The goals of the Community Outreach Program were to communicate project objectives, provide information about site activities, communicate the risks associated with the site, create a dialogue between RG&E and the public, and to build trust and credibility in the communication strategy. Based on the information made available and feedback received, the goals of the program were achieved.

7.5 Phase III Material Processing Activities

The following section describes the field work performed at the West Station MGP site from October 18, 1995, to August 20, 1996. The material processing activities were separated into two tasks: coal tar soil excavation and processing, and coal tar excavation, blending, and processing. The coal tar soil was excavated, processed, and transported between October 18, 1995, and December 15, 1995. The coal tar excavation, blending, processing, and transportation as well as site restoration occurred between January 26, 1996, and August 20, 1996.

7.5.1 Mobilization and Site Layout

The equipment mobilized to the site included the following:

- screening plant (Kolberg Model 271 with hammermill, sweeper magnet, belt scale, and one inch harp screen)
- excavator (Case 9020B)
- wheel loaders (Komatsu WA380, Cat 966)
- dozer (Cat D3)

- water truck (1,000-gallon capacity)
- trailer dump trucks (by transportation subcontractor as needed)
- office trailer
- health and safety monitoring and emergency response equipment

Before excavation activities, the perimeter of Area B was secured using a 4-foot orange plastic snow fence fastened to stakes placed every 10 feet. The upper 4 inches of clean gravel from Area B was removed and temporarily staged between the access road and the steam line at the northern end of the site (**figure 7-1**). Stormwater runoff control was provided by the existing earthen berm around the perimeter of Area B.

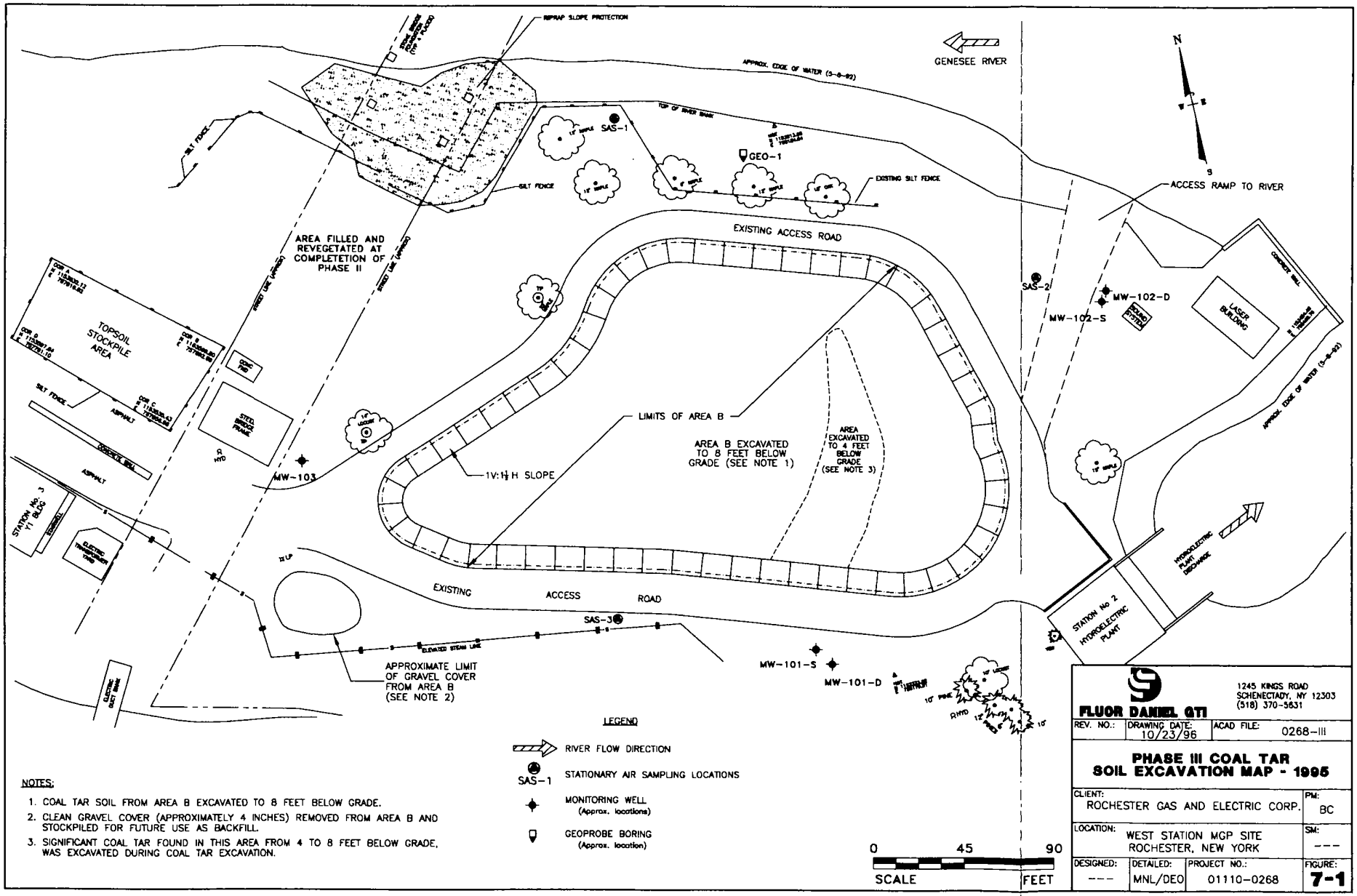
The coal tar soil excavation and processing scheme called for setup of the screening plant on one half of the site while the other half was being excavated. Once the excavation reached the screening plant area, the plant was relocated to the other end of the site to allow for excavation of the remainder of the site. The same procedure was followed during coal tar stabilization and screening activities.

A key element to the flow of work was the placement of equipment and product stockpiles to avoid hindering the excavation. Although this was generally accomplished, the relatively small space afforded by Area B, where all work was completed, resulted in some delays when transportation or treatment facility problems arose. Those delays were routinely documented and reported to NYSDEC, MCHD, the City of Rochester, and the NYS Department of Health in monthly reports submitted by RG&E.

7.5.2 Fugitive Emission and Odor Control

Several operational issues were encountered and controlled during the Phase III remediation project. Low levels of fugitive dust were liberated during various site activities. This dust was made airborne by the loaders and excavator within Area B. The method used to control fugitive dust was to spray the particular area with water as necessary to maintain the ambient dust levels at the perimeter of the site below the action level of 0.15 mg/m^3. A certain amount of dust arose from vehicle traffic on the access road around Area B. This access road was wetted as needed for dust control although the access road was a designated clean area.

During the coal tar stabilization work, another source of fugitive dust was the off-loading of the carbon blending material. Arrangements were made with the supplier to ensure the material had a moisture content high enough to minimize dusting when it was dumped from the trailers.



NOTES:

1. COAL TAR SOIL FROM AREA B EXCAVATED TO 8 FEET BELOW GRADE.
2. CLEAN GRAVEL COVER (APPROXIMATELY 4 INCHES) REMOVED FROM AREA B AND STOCKPILED FOR FUTURE USE AS BACKFILL.
3. SIGNIFICANT COAL TAR FOUND IN THIS AREA FROM 4 TO 8 FEET BELOW GRADE, WAS EXCAVATED DURING COAL TAR EXCAVATION.

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PHASE III COAL TAR SOIL EXCAVATION MAP - 1995

CLIENT: ROCHESTER GAS AND ELECTRIC CORP.			PM: BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK			SM: ---
DESIGNED: ---	DETAILED: MNL/DEO	PROJECT NO.: 01110-0268	FIGURE: 7-1

Potential odors were controlled at the site using nylon reinforced polyethylene sheeting to cover screened soil and blended fuel mixture stockpiles. The Phase III remediation project was completed without RG&E, NYSDEC, or MCHD receiving a complaint about dust or odors from businesses or the public.

7.5.3 Coal Tar Soil Excavation and Processing

As directed by the work plan, the first task of the West Station MGP remediation project was to remove all coal tar soil within the limits of Area B to a depth of 8 feet below grade. This material was transferred from the point of excavation to the screening plant by the loader. The screening plant generated two discharge streams composed of screened soil and reject material. A second loader removed the materials from the plant and created stockpiles as necessary. The reject material was reprocessed to remove as much coal tar soil from the reject as was practicable. The screened coal tar soil, upon approval from NYSDEC, was loaded onto trailer dump trucks and transported to the utility boiler facility in East Corning, New York operated by NYSEG (Hickling Station).

7.5.3.1 Excavation Procedure. The coal tar soil excavation plan generally consisted of removing the top 8 feet from within Area B. The intent of removing the 8 foot layer was to allow for excavation of the significant visible coal tar located below 8 feet. The Work Plan proposed that an 8-foot clean backfill layer would return the site contours to near original conditions. As will be described later, due to the volume of the reject material, this did not occur.

Excavation activities commenced on October 25, 1995, at the northwestern end of Area B. All material was excavated to a depth of 8 feet below original grade, and measurements were taken by the field engineer to ensure the 8-foot requirement was met. To facilitate efficient excavating, a paint stripe was located on the arm of the excavator which allowed the operator to rapidly check depth during excavation activities. The bank of the excavation was kept at a minimum of 1 foot of rise to 1.5 feet of run. This slope was used during the Phase I excavation and found to be less than the natural angle of repose of the material. Therefore, this slope provided safe working conditions within and around the excavation.

The excavator excavated the coal tar soils, and swung the material to a temporary stockpile adjacent to the excavation location. Because excavators are faster at swinging than tracking, this was the most efficient method of excavation. The loader picked up the material from the temporary stockpile and transferred it to the screening plant feed hopper. Details of the processing operation are provided in section 7.5.3.2.

The excavation continued at the 8-foot interval to where the endpoint samples indicated that the total PAH concentrations in the soil were less than 1% (10,000 ppm) MGP components. It was found that the general boundary of Area B eventually became the endpoint of the excavation. The only sections where the excavation continued past the limits of Area B were where coal tar deeper than 8 feet was located. Section 7.6.4 describes the endpoint sampling procedure and analytical results.

Excavated areas were used for storage of reject materials and screened coal tar soil. Ramps were cut out of the unexcavated coil tar soils or were built out of reject material to allow loader travel between the two levels.

Coal tar was found to be pumping up through the excavation floor in the western portion of Area B. These areas were later excavated, as described in section 7.5.4.1, because of the presence of significant amounts of coal tar. This coal tar created a very soft base for the equipment at the 8-foot level. The solution was to use reject material to form a usable base for the stockpiles and equipment traffic areas.

An area was encountered in the southern end of Area B where a significant amount of coal tar was commingled with the coal tar soil materials. This ridge was left unexcavated until the coal tar excavation task was undertaken as described in section 7.5.4.1.

The material found in the coal tar soil excavation was consistent with what was found during the previous phases of work. As was anticipated, precipitation did not collect within the excavation because of the high permeability of the material found at the site. At no time during the 31-week duration of the Phase III remediation project was it necessary to pump water out of the excavation.

7.5.3.2 Coal Tar Soil Processing. The coal tar soil processing operation was not intended to stabilize the material (coal tar soils were nonhazardous to start), rather to create a material that met the sizing requirements of the off-site treatment facility and to separate the course mineral matter (reject) from the coal tar soils. Coal tar soils were screened to remove particles greater than 1 inch as specified in the off-site facility acceptance criteria. The processing operation also had the effect of removing MGP residuals from the larger particles (greater than 1 inch) of rock, brick, etc., thus creating a reject material that was acceptable to leave on site beneath the 8-foot clean soil cover. The reject material had to meet the same criterion as endpoint samples, which was a concentration limit of less than 1% MGP residuals (MAHs, PAHs).

The actual processing of coal tar soils began with the stocking of the feed hopper. As material was dumped into the hopper, it passed through a 6-inch inclined grizzly screen. Oversized material was

separated by this step. Occasionally, minor amounts of coal tar (estimated at well below 1% total input) were found in the grizzly reject. As requested by NYSDEC, the oversized reject pile was inspected for coal tar. Any coal tar that was discovered was manually removed and staged on site until it could be processed with coal tar excavated from below 8 feet.

The material was pushed by the feed hopper belt through the hammermill. The hammermill consisted of a high-rpm free swinging mill assembly that would break down soil particles and clean off reject material. Material was conveyed over a digital totalizing belt scale to the high-frequency vibratory deck screen. Two layers of screens allowed material less than 1 inch to fall through into the finished product pile. The course top screen eliminated large reject, and the 1-inch harp screen provided final sizing of the coal tar soils. Both screens discharged reject material to the same reject chute located at the end of the screening plant.

Production rates for the coal tar soil processing varied from 71 tons per day to a maximum of 856 tons per day. A total of 9,785 tons was processed through the screening plant over 23 days of processing. Adding the estimated 10% grizzly reject, the total of excavated material was approximately 10,763 tons.

Factors limiting the daily production included material clogging in plant, conveyor belt tracking maintenance, feed belt performance (slippage was occasionally encountered), mechanical failures of screens (two such incidents), mechanical failures of hydraulic system components, weather conditions affecting the start-up of equipment, splitting of feed belt, high numbers of trucks to be loaded with finished product (which would occupy a loader), and the limited space available for finished product stockpiles.

Reject percentages varied from 25% to 50% of processed material. Estimations of reject percentage were based both on visual observations made in the field and on quantitative measurements using the belt scale.

The coal tar soil processing operation resulted in the material processing totals detailed in **table 7-1**.

The processing operation contained two measurement points for material. The first was the weight of material sent over the belt scale during initial processing. For this reason, the reported total of 9,785 tons of material processed is an actual value accurate to the limit of the belt of the belt scale (estimated at greater than or less than 10% as used in this application). The visually estimated value of 10% oversized reject from the grizzly screen is assumed to be an accurate percentage based on concurrences among field personnel involved with the operation.

TABLE 7-1
Coal Tar Soil Material Processing Totals

Material excavated	10,763 tons
Oversized reject (>6 inches)	978 tons
Material processed through screening plant	9,785 tons
Coal tar soils screened for treatment[1]	6,523 tons
Reject Material[1]	3,262 tons
Coal tar soils screened for treatment[2]	5,871 tons
Reject material[2]	3,914 tons
Total reject generated from coal tar soil processing[2]	4,240 – 4,892 tons

[1] Assumes 30% overall processing reject rate.
[2] Assumes 40% overall processing reject rate.

The greatest potential for the introduction of error into the calculations is the estimation of process reject material. The range presented in **table 7-1** represents the lower and upper limit of possible reject percentages as determined by extensive field observations. The amount of coal tar soil stockpiled for treatment ranged from 5,871 to 6,523 tons. The corresponding range of reject generated is 3,914 to 3,262 tons. The total weight of material shipped for treatment (as discussed in section 7.5.6) was 5,121 tons. This weight is as measured by certified scales at the off-site treatment facility and represents the second measurement point for processed material.

After all stockpiles were loaded out, it was evident that a certain amount of screened coal tar soil remained in Area B because of the uneven nature of the base on which the stockpile was placed and the precision with which a loader can peel up the material without picking up debris from the base (which would not meet the size requirement). Therefore, between 750 and 1402 tons of screened finished product were left on site at the conclusion of the coal tar soil excavation and processing work. However, the locations in which this material was left, were subject to excavation during the coal tar excavation work. Hence, this reported 750 to 1402 tons of material left on site was actually reexcavated and processed.

To further quantify amounts of material processed, the total reject pile was examined at the end of coal tar soil processing activities. By using the 40% overall reject rate, the reject pile should have contained 4,892 tons of material. Based on the size of the pile, this estimate would accurately

represent the actual amount. Therefore, using all of the field observations and estimations, it can be assumed that the most accurate measurement of coal tar soil processing totals are those resulting from the 40% reject rate calculations.

7.5.4 Coal Tar Excavation and Processing

The initial plan for the remediation of the coal tar at the West Station Site, as described in the work plan, was to excavate the pure coal tar and load it directly into containers for the transportation to the recycling facility in Ohio. However, during the early stages of coal tar soil processing activities, RG&E learned that the proposed recycling facility could not meet the regulatory and contractual requirements of the project. After reevaluation of the treatment alternatives available, RG&E opted to stabilize the coal tar with a carbon-based blending product and ship it to NYSEG's Hickling Station located in East Corning, New York. This alternative was among those mentioned in the NYSDEC-approved work plan.

The work plan also mentions the possibility of a mixed soil and tar material or interface material. The plan for management of this material was to chemically stabilize it with a blending agent and send it for treatment to the NYSEG facility. As the coal tar excavation proceeded, RG&E learned that no distinctly different material was encountered at the coal tar/soil interface because the coal tar found was intimately mixed with other materials. Hence, all material removed during the coal tar excavation was treated as a single type of material. No distinction was made between coal tar and mixed soil and tar, except with respect to the amount of carbon additive used to process the materials.

7.5.4.1 Excavation and Processing Plan. The excavation of coal tar, as guided by the work plan, consisted of the removal of significant tar accumulations (more than a few cubic yards) that existed within Area B. Prior investigation (borings, test pitting) indicated that the coal tar contamination was generally confined to the limits of Area B. All historical data had shown that no source coal tars were located below a depth of approximately 20 feet below grade (typical depth of the groundwater table is 22 feet below grade).

The excavation of source coal tars began at the southern end of Area B where coal tar contamination was known to exist from previous excavations and test pits. The coal tar was excavated using a case 9040 excavator (a larger size than others used previously at the site). Typically, the coal tar material was excavated and placed directly into the bucket of the loader. The loader transported the coal tar material, which contained other on-site materials, to the on-site coal tar processing area. The blending and processing operation is described in section 7.5.4.2, Coal Tar Stabilization and Processing. During the excavation of material, a field estimation of the volumetric percent of the coal

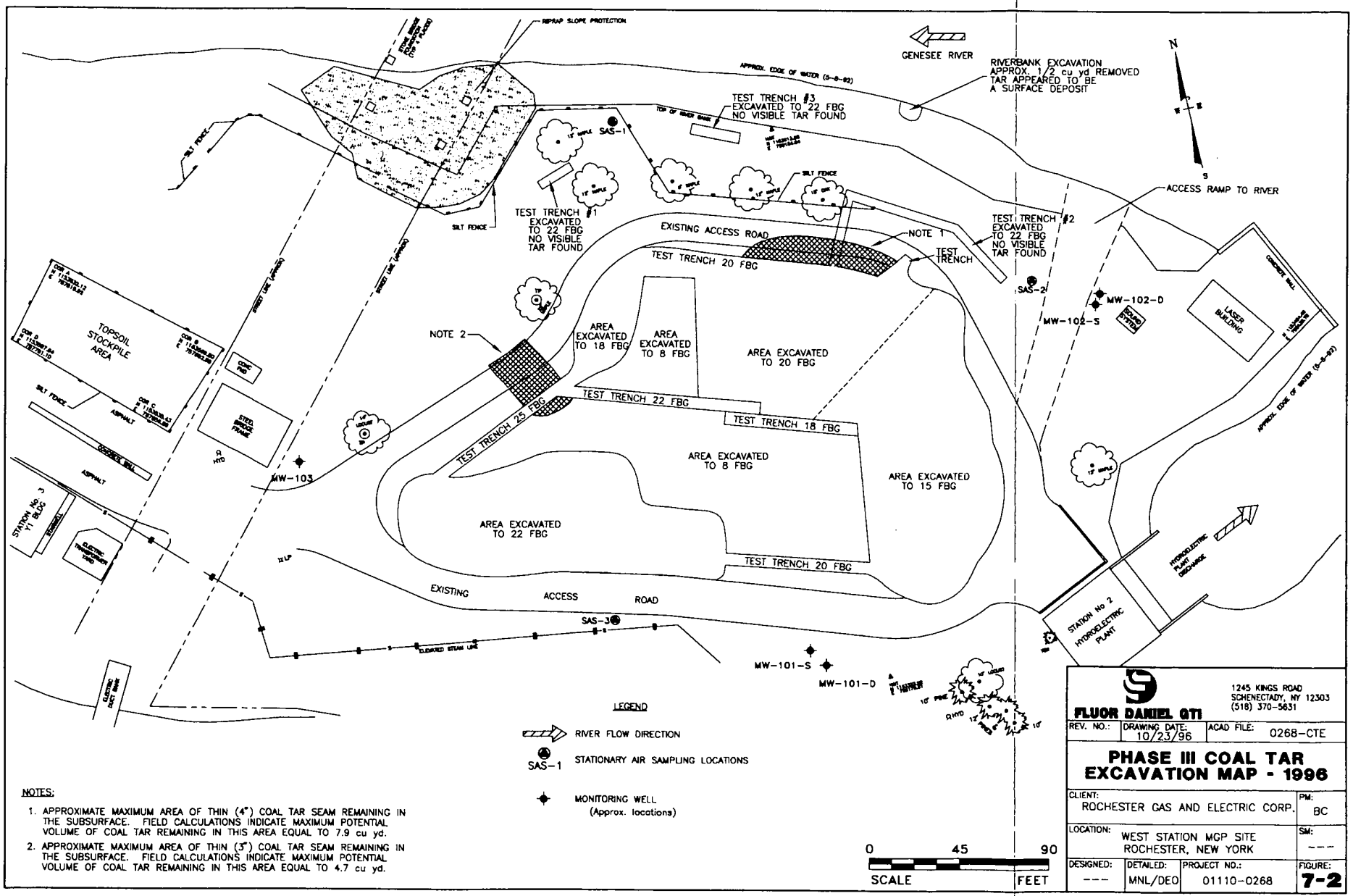
tar contained in the material was made based on visual observation. Also, the number of loader buckets (a known volume) of source material that was put into each mixing container was documented. Using this information, the volume and hence the weight of coal tar in each mining container (or batch) was known, and the amount of carbon to be used in each batch was determined. The assumption was that the carbon was to be blended at a 1:1 ratio by weight to the coal tar. The bucket counts (calculated using material densities) for both source material and carbon were measured at least on a daily basis, depending on the consistency of the excavated material. Field observations of the material were made regularly to ensure the proper blending ratio was used.

The excavation of coal tar continued in a given direction until there was no significant visible tar in that location. **Figure 7-2** details the areas excavated to remove source coal tar and the depths to which each general area was excavated.

Throughout the coal tar excavation, material that was found to be un-impacted by visible coal tar was placed into areas where excavation had been completed. This allowed for access to coal tar in areas which were underlying the un-impacted material. The coal tar was found to be commingled with other material including soils, rocks, building blocks, chimney brick, refractory bricks, concrete, scrap steel, construction debris, ash, cinders, coke, slag, and building rubble. The estimated amount of tar intermingled with these other materials varied from 25% to 80%. At no time during the excavation was a pure pool of coal tar found where the excavated material consisted of 100% coal tar. At times, the excavation wall illustrated a cross section of material showing distinctly different zones of fill, both horizontally and vertically.

The maximum depth of any region of the Area B excavation was approximately 22 feet below grade (**figure 7-2**), the point at which groundwater was encountered. Although no significant visible coal tar was evidenced below the water table, the coal tar was found to have had extended to the top of the water table. This is consistent with the findings of the 1991 site investigation.

Riverbank Coal Tar Surface Deposit. The Phase III remediation project was to address the issue of the coal tar deposit noticed on the riverbank at a level only slightly above normal river elevation. A shelf was excavated out of the top of the bank to position the excavator to reach the coal tar deposit. Approximately 0.5 cubic yard of coal tar was removed from the location shown in **figure 7-2.** There was no visible evidence that the coal tar had been created by a seep in the bank. Field observations led to the conclusion that the coal tar was a surface deposit. This conclusion is supported by test trench 2 that was excavated between Area B and the riverbank which contained no visible coal tar to a depth of 22 feet below grade. The deposit on the riverbank was located at an elevation higher than the bottom of the test trench (see **figure 7-2** for test pit location).



NOTES:

1. APPROXIMATE MAXIMUM AREA OF THIN (4") COAL TAR SEAM REMAINING IN THE SUBSURFACE. FIELD CALCULATIONS INDICATE MAXIMUM POTENTIAL VOLUME OF COAL TAR REMAINING IN THIS AREA EQUAL TO 7.9 cu yd.
2. APPROXIMATE MAXIMUM AREA OF THIN (3") COAL TAR SEAM REMAINING IN THE SUBSURFACE. FIELD CALCULATIONS INDICATE MAXIMUM POTENTIAL VOLUME OF COAL TAR REMAINING IN THIS AREA EQUAL TO 4.7 cu yd.

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PHASE III COAL TAR EXCAVATION MAP - 1996

CLIENT:	PM:
ROCHESTER GAS AND ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE, ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
---	MNL/DEO	01110-0268	7-2

Test Trenching Outside of Area B. Test trenches were excavated in areas outside of Area B to verify the presence or absence of significant visible tars. The locations of the test trenches are shown in **figure 7-2**. The first test trench excavated (Test Pit 1) was located to the northwest of Area B, between the two maple trees. This test trench was completed to confirm the presence of coal tar that was reported (during the Phase I Area A excavation) to be located at 18 feet below grade in this area. The test pit yielded several isolated coal tar pieces, but no significant visible coal tar or coal tar layer was observed to a depth of 22 feet below grade.

The second test trench excavated (Test Trench 2) was between Area B and the river (see **figure 7-2**). Test Trench 2 also connected the Area B excavation to the portion of itself that ran parallel to the river. The intent of this test pit was to determine the extent of a thin coal tar seam found at the endpoint of the Area B excavation. The endpoint of the Area B excavation in this region contained a thin coal tar seam approximately 4 inches thick, located at a depth of approximately 15 feet. The width of this seam was approximately 95 feet. The Test Trench 2 section that was perpendicular to the Area B boundary indicated that the seam continued only for approximately 15 feet toward the river. Using a conservative estimate that the coal tar occupied void spaces in the fill material of 50% of the total volume, the calculated volume of coal tar in the subsurface in this area equaled 7.9 cubic yards. **Figure 7-2** details the extent of the coal tar seam and locations of the test trenches.

The third test trench (Test Trench 3) was completed to a depth of 22 feet below grade to verify that the northwestern end of the above described coal tar seam did not extend to the riverbank in that direction (**figure 7-2**). No significant visible tar was found within Test Trench 3.

Test Trenching within Area B. The coal tar excavation procedure included the completion of test trenches, within sections of Area B, to a depth of at least 20 feet below grade to investigate the possibility of coal tar deposits existing in areas that might have otherwise gone unexcavated. These test trench locations are detailed in **figure 7-2**. The test trench along the bridge side of Area B (to the northwest) revealed a thin coal tar seam (approximately 3 inches thick) at a depth of approximately 20 feet below grade. The seam extended for roughly 25 feet along the trench wall. The perpendicular test trench revealed that the seam extended 10 feet the southeast. It is known that the Area A excavation extended to the limit of the access road. Therefore, a similar calculation as above yielded that the maximum potential volume of coal tar in this area is equal to 4.7 cubic yards.

7.5.4.2 Coal Tar Stabilization and Processing. The coal tar stabilization operation began with the placement of the source material into the heated mixing container. Source materials were loaded first so that they were in contact with the heated floor of the mixing container to allow for efficient heat transfer to the coal tar. The necessary amount of the carbon blending product was placed on top of

the source materials and the mixture was allowed to heat. The placement of the carbon product on top of the source materials served as both an insulating blanket and to effectively adsorb vapors and control odors.

The mixing containers were heated by steam supplied by Beebee Station. An active steam line located adjacent to the site supplies steam to the Station No. 2 rack house for space heating and to the Court Street Dam for ice control. The steam line was tapped and a regulated 15 psi of steam was piped to each of the mixing containers. A false floor in the mixing containers created a chamber through which the steam passed. Condensate drained out of the opposite end of the containers.

The heated mixing containers increased the temperature of the coal tar to a point where it was readily blended with the carbon. The temperature of the coal tar needed to be increased to further lower the viscosity and to allow efficient blending. A blending problem was encountered when the tar was not heated sufficiently. An excessive amount of coal tar began to appear in the reject material. This caused the reject material to fail to meet the backfill concentration requirement of 1% MGP components.

To increase the processing rate, the heating process was augmented by the addition of high calcium quicklime (available calcium oxide content of 94%). After source coal tar material was loaded into the mixing containers, the loader bucket was manually filled with the required amount of lime. The granular lime was dumped directly on top of the coal tar material. Quicklime was added at approximately 3% by weight (of source material and carbon) to each batch. The moisture content of the source material (approximately 12% to 15%) was adequate to react all of the lime, based on visual observation. Field trials resulted in the determination that the most effective method of blending was to mix the lime into the source coal tar material before the addition of carbon. Carbon was then added to the mixture, thus creating the stabilized fuel product.

The coal tar was chemically stabilized (its benzene content adsorbed to fine powdered carbon particles) with a proprietary carbon product at a ratio of 1:1 by weight of carbon to coal tar. The stabilization occurred in the two steam-heated, steel-mixing tanks provided by a subcontractor. A specialized piece of equipment was used to perform the stabilization. The machine (blender) consisted of an excavator cab, chassis, and boom with a hydraulic blending head attached to the end. The head contained two drums with 0.75-inch steel paddles or teeth mounted to the outside (approximately 30 per drum) which rotated in either direction at a maximum of 68 rpm. After the blender created a stabilized material in the mixing tanks, the material was loaded by an excavator into the screening plant as described in section 7.5.3.2.

The coal tar processing operation continued into the spring and summer. The steam was disconnected as ambient temperatures increased past 60 degrees Fahrenheit. At that point, the heat generated by the quicklime was sufficient to create an acceptable blended mixture.

At the start of coal tar stabilization activities, carbon was added at ratios greater than 1:1 to create a mixture that was visually determined to be acceptable. Until laboratory data was compiled so that a comparison could be made between visual observation and an actual lab result, this conservative approach was used. By the end of the stabilization process, acceptable results were achieved while reducing the carbon consumption to a 1:1 ratio or less.

As described previously, the stabilization of coal tar occurred in batches. Each load of source material and carbon per mixing container comprised a batch. A total of 548 batches were stabilized and processed from February 7, 1996, to June 13, 1996.

Table 7-2 contains a summary of the estimated totals of materials processed and totals of materials imported (carbon) and exported (fuel product).

TABLE 7-2
Coal Tar Stabilization Material Processing Totals

Total source material excavated	4,650 tons
Total oversized reject (>6 inches)	200 tons
Total carbon imported	4,783 tons
Total carbon imported (less 10% moisture loss)[1]	4,305 tons
Total blended material processed	8,755 tons
Total reject material generated	1,300 tons
Total fuel product shipped for treatment	7,455 tons

[1] Elevated temperatures during blending and processing are responsible for this estimated 10% loss in moisture.

7.5.5 Material Staging

All stockpiles for both the screened coal tar soils and the coal tar fuel product, as well as carbon, were staged within the limits of Area B. The work plan contained a provision for the temporary staging of stockpiled materials within the Beebee Station Coal Storage Area, which is located at the northeastern

end of the facility, however, this option was not exercised during the project.

All stockpiles were covered with 6-mil nylon reinforced polyethylene. Staged materials remained covered except when being accessed by equipment to control odors and VOC emissions. Stockpiles were labeled with an identification stake placed in a visible location. A working site map was maintained in the field documentation, which showed current stockpile locations, to ensure that a stockpile was not erroneously shipped or otherwise mishandled.

Stockpiles for both the coal tar soils and coal tar fuel product were created to contain a maximum of 1,000 tons, as measured by the belt scale. Approval to ship the stockpiles was granted by NYSDEC dependent on analytical results (material sampling is described in section 7.6). Efforts were made to remove as much of the stockpiles as possible without scraping up the base, which would include materials (such as rock and brick) not consistent with the treatment facility acceptance criteria.

7.5.6 Material Transportation

The coal tar soil and the coal tar fuel product was transported using trailer dump trucks having a permitted payload limit of approximately 35 tons. Each load was accompanied by a straight bill of lading which documented shipment origin, transporter, and destination. A unique bill of lading number was assigned to each load transported. At the treatment facility, the net weight of the load was measured by a certified scale. The shipments were made under the transportation company's 6 NYCRR 364 industrial waste transporters permit. Every load was tarped before leaving the site, and trailer sideboards were cleaned prior to movement off-site. Vehicles did not undergo extensive decontamination prior to leaving the site because loading operators carefully avoided creating the need for same.

The totals for material transported from the site to the treatment facility follow:

- Screened coal tar soil: 5,121.1 tons
- Blended coal tar fuel product: 7,454.6 tons

All of the screened coal tar soil was transported to the NYSEG utility boiler facility in East Corning, New York. The blended coal tar fuel product was shipped to the same facility and also shipped to another utility boiler facility (also operated by NYSEG under the same part 360 permit), located in Bainbridge, New York (Jennison Station). It became necessary to use the alternative facility because the storage area of the East Corning facility, at times, was at or near capacity. Therefore, to avoid unnecessary delays, the Bainbridge facility was used.

7.5.7 Demobilization

As equipment became unnecessary, that unit was removed from the site. All equipment was decontaminated using a pressure washer. Visual inspections were made of the equipment to ensure all MGP residuals were removed. All decontamination activities occurred within the limits of bermed Area B. The mixing containers were drained of condensate, decontaminated, and returned to the supplier.

Once all processing activities had ceased, the reject material that had been accumulating (approximately 6,500 tons) was spread back into the Area B excavation. Note that this material had met the backfill requirements stated in the work plan. The reject material filled a larger volume than was originally anticipated when replaced within the Area B excavation because of the large amount of interstitial spaces contained within this extremely course material. The reject material backfilling operation left the original excavation area only approximately 2 feet below the grade of the access road. Hence, the 8-foot cover layer now exists as a hill on the site. The backfilling operation is discussed in section 7.7.

7.6 Media Sampling Activities

All sampling performed during the Phase III remediation project was completed under the direction of the guidelines set forth in the work plan compiled by RG&E and approved by NYSDEC. The site-specific Sampling and Analysis Plan (SAP) was developed by RG&E to accompany the work plan. The following subsections describe the field sampling and QA/QC procedures employed to ensure the integrity, validity, and usability of the analytical results collected throughout this project.

Material processing (fuel product and reject) and endpoint sample analyses were conducted by META Environmental, Inc. (META) of Watertown, Massachusetts. Material processing analyses were also conducted by Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, Connecticut. Other fuel stream analyses were conducted by RG&E's Chemical Laboratory (RG&E Chem Lab). The analytical program is summarized in **table 7-3**.

7.6.1 Data Gathering Objectives

The purpose of the Phase III remediation project sampling program was to verify material compliance with the acceptance criteria specified by NYSEG and with site-specific cleanup goals.

Specific objectives included:

1. Identification of MGP residuals and their concentrations, where applicable, so that the materials could be managed in accordance with the work plan and environmental regulations.

2. Verification that the concentrations of any MGP residuals allowed to remain on site met the NYSDEC approved site specific cleanup goals.

New York State ELAP-certified labs performed solid waste tests and served to verify 10% of the analytical results presented by META. The RG&E Chem Lab conducted other tests (sulfur lb/MMBtu) using ASTM Standard Methods for coal and coal mixture properties. The RG&E Chem Lab was certified to perform all analyses that it performed.

The parameters analyzed in support of the data gathering objectives are listed in **table 7-3.**

7.6.2 Field Methodology

To increase the overall accuracy of the sampling and analysis process and prevent bias introduced from sampling, preservation, and handling, preparatory and procedural tasks were completed by field personnel. These general procedures were used for each sampling event during the project.

Preparatory Tasks. Sampling personnel were:

1. thoroughly familiar with task before proceeding,

2. utilized an appropriate level of personal protection,

3. had ice for preservation,

4. had field book, sample labels, sample containers, stainless steel scoop, stainless steel bowl, sampling gloves and site map,

5. had decontamination supplies including five gallon buckets, detergent (Liquinox®), hexane, distilled water, clean tap water.

Procedural Tasks. Sampling personnel ensured that:

1. Equipment was decontaminated.
   a. Decontamination area was prepared.
   b. Equipment was cleaned thoroughly.
   c. Equipment was air dried.

2. Sample gloves were used.

TABLE 7-3
Phase III West Station Remediation Project
Analytical Program

Analytical Parameters	Method	Laboratory
200-Ton Intervals:		
Total Benzene (ppm)	**MSE (MET 2501/MET 4007)	META
TCLP Benzene (mg/L)[1]	*ZHE/EPA 8020	Phoenix
1,000-Ton Intervals:		
TCLP Metals		Phoenix
Arsenic	SW-846 7060	
Barium	SW-846 7080	
Chromium	SW-846 7190	
Cadmium	SW-846 7130	
Lead	SW-846 7420	
Mercury	SW-846 7470	
Selenium	SW-846 7740	
Silver	SW-846 7760	
Sulfur (% as received)	ASTM D4239	RG&E Chem Lab
Heat Content (BTU/lb as received)	ASTM D1989 ASTM D2013	RG&E Chem Lab RG&E Chem Lab
Total Moisture (%)	ZHE/EPA 8020	Phoenix
TCLP Benzene (mg/L leachate)		
1,000-Ton Intervals[2]:		
TCLP Organics	ZHE/EPA 8240	Phoenix
Confirmatory Sampling:		
MAH - PAHs	MSE (MET 2508/MET 4007)	META
QA/QC	EPA 8240/EPA 8270	Ecology & Environment

[1] Test to be performed on 10% of MSE analyzed samples.

[2] For first two (2), 1,000 ton stockpiles, if analytical results are comparable to historic data, then requirement is waived for halogenated organic compounds.

*ZHE Zero Headspace Extraction.

**MSE Microscale Solvent Extraction. Method references are META SOPs for microscale extraction/simultaneous determination of MAHs and PAHs by GC/FID.

3. Samples were preserved and secured properly.

4. Duplicates were taken when required.

5. Sample information was recorded in Master Sample Tracking Log, including:
   a. location where sample was obtained
   b. sample identification
   c. date of sample collection

6. All sample locations were marked on site map if applicable.

7. All disposable sampling equipment was collected in trash container.

8. Decontamination procedures were repeated as necessary.

9. Holding times for samples were known.

10. All samples were shipped with chain-of-custody procedures followed, including confirmation of proper cooling of samples.

11. Laboratory received samples (when applicable).

7.6.3 Coal Tar Soil Processing Sampling

Samples of processed coal tar soil were collected to comply with the work plan as well as acceptance criteria specified by NYSEG. All sampling and analysis of coal tar soils that were shipped for treatment were sampled according to the NYSDEC approved "05-20-94 Sampling and Analysis Protocol for Coal Tar Sites" along with the exceptions approved by NYSDEC September 14, 1995, letter to NYSEG. Modifications were only relative to the number of samples taken and analyses to be performed. The sample collection and compositing protocol was not modified.

Two representative samples were collected from each 200-ton interval of coal tar soil prepared for off-site treatment. A representative sample consisted of 20 grabs, one from each 10-ton interval or portion of coal tar soil. The first composite of 20 grabs was split with one portion analyzed for Total Benzene by MSE (microscale solvent extraction) and the other portion saved. If the analytical result showed that the sample met the 20 ppm limit for Total Benzene by MSE, then that particular 200-ton interval was deemed acceptable. The 20 ppm limit for Total Benzene by MSE was agreed to by NYSDEC and resulted from a correlation study performed by META to compare the MSE method with standard methods. This study showed that a MSE result of 20 ppm would represent a TCLP result that would meet the 0.5 ppm TCLP Benzene limit 95% of the time. As required by NYSDEC, a minimum of 10% of all Total Benzene by MSE analyses were confirmed by TCLP analysis. If the results met the limit, then the saved portion of the first sample was placed with the acceptable coal tar

soil from which it was sampled.
If the first composite split sample exceeded the limit for Total Benzene by MSE, then the saved portion of the first sample was analyzed for TCLP Benzene. The TCLP Benzene result for a particular sample always took precedence over a Total Benzene by MSE result. If the TCLP analysis exceeded the acceptable limit of 0.5 ppm for benzene, the entire interval represented by that analysis was reprocessed or resampled according to approved NYSDEC site-specific protocol.

The second sample taken from each 200-ton interval or portion was combined with four additional 200-ton interval samples to create a 700- to 1,000-ton composite. The 700- to 1,000-ton interval sample was split into two portions. The first portion was analyzed for the following parameters according to the approved modified sampling and analysis protocol for the West Station Remediation Project:

1. TCLP Metals: arsenic, barium, chromium, cadmium, lead, mercury, selenium, silver
2. Sulfur (lb/MMBtu)
3. List 4 TCLP Analyses (pesticides and herbicides not required as explained below)

The remainder of the List 4 TCLP Analyses were performed on the first two 700- to 1,000-ton interval samples. Based on the favorable results of these analyses, no further analyses for halogenated compounds included on List 4 were required for future materials destined for treatment. Therefore, all 700- to 1,000-ton interval samples for the remainder of the project were analyzed for TCLP metals (as detailed above), sulfur, and TCLP analyses of the following compounds: benzene, cresol (total), 2,4 dinitrotoluene, methyl ethyl ketone, nitrobenzene, and pyridine. These compounds constituted the List 4 compounds (excluding pesticides, herbicides, and organic halogenated compounds).

If analytical results had shown that any one of the components exceeded the acceptable limit, then the second portion of the split sample would have been analyzed for the above described List 4 parameters. If the second analysis indicated that any component exceeded the limit, then the entire 700- to 1,000-ton interval would have been reprocessed, although it never became necessary to do this during the project.

Upon receipt of results which indicated that all parameters analyzed met the limits specified by the treatment facility, RG&E prepared a request for approval from the NYSDEC. The request included laboratory data and a document stamped by a New York State Licensed Professional Engineer certifying that sampling protocols were met. NYSDEC, after review of the request, then issued approval to ship the represented material to the treatment facility. **Appendix F** contains all analytical data from the Phase III sampling and analysis program regarding processed materials. **Table 7-4** contains a summary of all samples collected and analyzed during the coal tar soil processing portion

of the Phase III remediation project.

7.6.4 Coal Tar Processing Sampling

As described in section 7.6.3, all samples collected during the blending and processing of coal tar were to comply with the work plan and the treatment facility acceptance criteria. The sampling protocol followed for this portion of the Phase III remediation project also complied with the NYSDEC-approved, January 30, 1996, Addendum No. 1 to the site-specific Sampling and Analysis Plan.

TABLE 7-4
Phase III West Station Remediation Project
Coal Tar Soil Processing Analysis Summary

Media and Analysis	Samples Collected	Samples Analyzed	Duplicates	Total Samples Analyzed
2,000-ton interval:				
Total benzene (MSE)	37	37	4	41
TCLP benzene (confirmation)	4	4	1	5
700- to 1,000-ton interval:				
TCLP (excluding halogenated organics)	6	6	1	7
Sulfur (lb/MM BTU)	8	8	1	9
700- to 1,000-ton interval:				
TCLP halogenated organics	2	2	0	2

Ten representative samples were collected from the first 10 batches of coal tar fuel blend processed. Each batch consisted of a maximum of approximately 20 tons of the coal tar fuel blend. A representative sample of each batch consisted of four grab samples composited to form a batch sample. The first 10 batches of the coal tar fuel blend were maintained as separate piles; therefore, each batch sample was in essence a 20-ton interval or pile sample. These 10 samples were analyzed for both Total Benzene by MSE and TCLP Benzene to develop a correlation between MSE and TCLP results.

Because the analytical results of the first 10 intervals showed that the materials met the applicable limits, the sampling and analysis protocol for the remainder of the project continued in a manner similar to the coal tar soil sampling scheme with regard to sampling and compositing intervals.

The initial sampling plan for the coal tar fuel blend was to collect two representative samples from each 200-ton interval. The first sample was analyzed for Total Benzene by MSE, and 10% of these samples were confirmed by TCLP Benzene analysis. However, it was discovered that a significant number of the Total Benzene by MSE results would yield results which did not meet the MSE limit of 20 ppm. The split samples, when analyzed for TCLP Benzene, would result in a benzene concentration that did meet the TCLP limit of 0.5 ppm. Therefore, the Total Benzene by MSE analysis was replaced by the TCLP Benzene test to expedite the material stockpile approval process. This sampling protocol was consistent with the work plan and the applicable acceptance criteria.

The second sample collected from each 200-ton interval was initially composited with as many 200-ton interval samples as were taken during a given week of processing. Three to four samples were composited to create a weekly composite. The weekly composite was split and one portion analyzed as described in the previous section for the 700- to 1,000-ton interval. The other portion was saved for reanalysis if needed. This protocol was modified and approved by the NYSDEC in a March 22, 1996 letter to RG&E. The modification consisted of increasing the weekly compositing of 200-ton interval samples to a 1,000-ton compositing interval. The modification did not involve any changes to the analytical program. **Table 7-5** contains a summary of the samples collected during the processing of coal tar.

TABLE 7-5
Phase III West Station Remediation Project
Coal Tar Fuel Blend Analysis Summary

Media and Analysis	Samples Collected	Samples Analyzed	Duplicates	Total Samples Analyzed
20-ton interval:				
Total benzene (MSE)	11	11	1	12
TCLP benzene (confirmatory)	11	11	1	12
200-ton interval:				
Total benzene (MSE)	10	10	0	10
TCLP benzene (confirmatory)	21	21	0	21
Weekly composite:				
TCLP (excluding halogenated organics)	6	6	0	6
Sulfur (lb/MM BTU)	6	6	0	6
1,000-ton interval:				
TCLP (excluding halogenated organics)	7	7	0	7
Sulfur (lb/MM BTU)	7	7	0	7

Reject material: MAHs-PAHs	8	8	0	8

7.6.5 Reject Material Sampling

The reject material generated by the processing of the coal tar fuel blend was sampled to verify that it met the 1% concentration limit for MGP components. The reject material was sampled according to the following described procedure, which was approved by the NYSDEC. Four grabs were taken per week to form a weekly composite sample. The weekly samples were composited to form a representative sample of each 200-ton interval of reject material generated.

The 200-ton interval sample was sent to META for total MAH-PAH analysis by MSE. The results indicated that all of the samples collected met the 1% limit for MGP components. Therefore, the reject material was used as backfill below the 8-foot cover layer within the Area B excavation. **Table 7-6** summarizes the results of the reject material sampling and analysis protocol. The analytical data for the reject material is included in **appendix G** along with the NYSDEC approved reject material analytical protocol.

TABLE 7-6
Reject Material Analytical Results
Total MAH-PAH

Sample Identification	Result (by MSE) (ppm)	Laboratory Duplicate Result (by MSE)* (ppm)
REJECT MATERIAL	3,836	4,230
RGE-052296-REJECT-2	5,606	8,149
RGE-040596-REJECT-3	2,738	2,491
RGE-041796-REJECT-4	9,386	5,013
RGE-042796-REJECT-5	2,840	4,308
RGE-051796-REJECT-6	8,552	1,626
RGE-060796-REJECT-7	14	Not analyzed
RGE-061996-REJECT-8	386	846

*The result to duplicate result variance is explained by the heterogeneity of the sample, difficulty in performing representative subsampling, and the tendency of PAHs to be absorbed into certain organically based reject material (wood).

7.6.6 Excavation Endpoint Sampling

The endpoint of the Area B excavation was sampled according to the work plan. Samples were collected when no significant visible tar remained at the edge of the excavation. The endpoint samples were collected to verify that the cleanup goals and objectives of the Phase III remediation project as described in the work plan were met.

The acceptable limit for on-site materials was less than 1% or 10,000 ppm total MGP components, which included volatiles such as mononuclear aromatic hydrocarbons (MAHs) and polynuclear aromatic hydrocarbons (PAHs). Endpoint excavation floor samples were collected on a 50-foot grid interval (**figure 7-3**). Excavation wall endpoint samples were collected from the vertical midpoint of the wall every 50 feet along the wall. The excavated test trenches were also sampled to verify the MGP residual concentration in those particular areas.

Figure 7-3 also indicates locations of the test trench floor and wall samples. Analytical data for all endpoint samples are included in **appendix H**. The analytical results from the NYSDEC split samples are also included in appendix H. **Table 7-7** contains a summary of the analytical results from the endpoint sampling and analysis program.

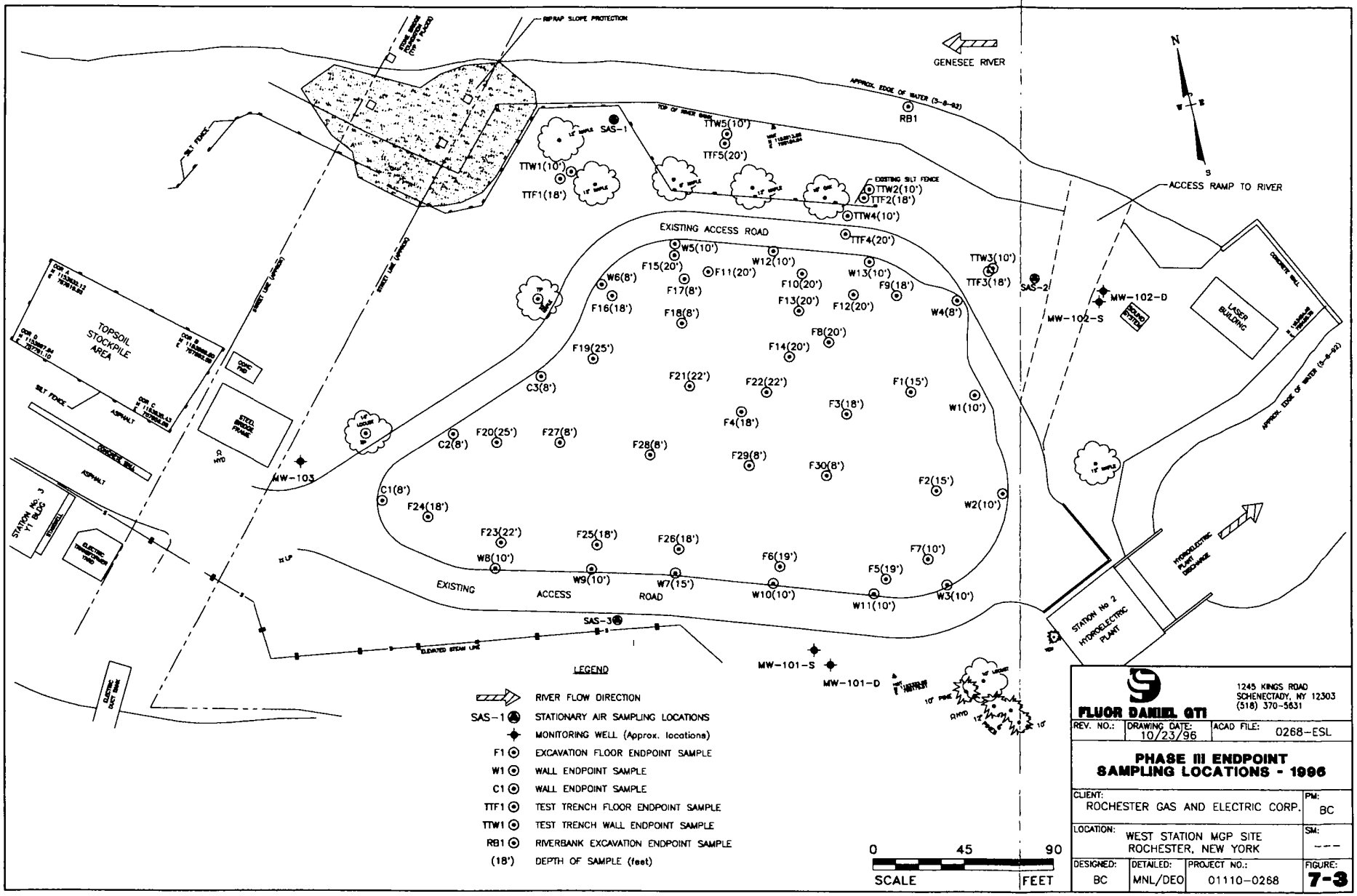
7.7 Backfilling Activities

Backfilling of the West Station Site occurred in two steps. Initially, the Area B excavation was filled with a minimum of approximately 7.5 feet of clean fill and 6 inches of topsoil. This work was completed between June 19, 1996, and July 3, 1996. Next, a 1-foot cover layer of clean fill and topsoil was installed on areas outside the access road but still within the work zone described in the work plan between August 7, 1996, and August 15, 1996. A layer of 12 inches of crushed stone was placed on the access road during the second step of backfilling. The following section describes the work completed during on-site backfilling activities. **Figure 7-4** details the site conditions at the completion of site restoration activities.

7.7.1 Backfilling of Area B

The purpose of the backfilling work within the Area B excavation was to satisfy the work plan requirement of placing an 8-foot barrier layer of clean fill on top of the material left at the end of excavation and processing activities. This barrier layer will ensure that any reasonably predictable excavation for small structures or utilities will not encounter residual materials allowed to remain on-site. The 8-foot clean layer was placed on the soils exposed at the endpoint of the excavation and the

reject material that was backfilled into Area B.



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	10/23/96	0268-ESL

PHASE III ENDPOINT SAMPLING LOCATIONS - 1996

CLIENT: ROCHESTER GAS AND ELECTRIC CORP.			PM: BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK			SM: ---
DESIGNED: BC	DETAILED: MNL/DEO	PROJECT NO.: 01110-0268	FIGURE: 7-3

TABLE 7-7
Phase III Excavation Endpoint Analytical Results
Total MAH-PAH Concentration

Sample Identification	Total MAH (ppm)	Total PAH (ppm)	Total MAH-PAH (ppm)
RGE 110195 - C1	(0.75) 1.04	(192) 140	(192.75) 141.04
RGE 110695 - C2	1.95	333	334.95
RGE 110695 - C3	1.27	61.6	62.87
RGE 040896 - F1	1.68	396	397.68
RGE 040896 - F2	9.52	1,060	1,069.52
RGE 041096 - F3	0.36	8.28	8.64
RGE 041096 - F4	6.51	25.3	31.81
RGE 041096 - F5	7.79	2,380	2,387.79
RGE 041096 - F6	3.39	1,140	1,143.39
RGE 050896 - F7	3.92	1,560	1,563.92
RGE 042596 - F8	0.67	571	571.67
RGE 042596 - F9	58.5	4,360	4,418.5
RGE 042596 - F10	61.9	4,550	4,611.9
RGE 050196 - F11	11.1	2,030	2,041.10
RGE 050296 - F12	ND	34.6	34.60
RGE 051696 - F13	ND	8.34	8.34
RGE 051696 - F14	(ND) ND	(2.48) 2.21	(2.48) 2.21
RGE 052196 - F15	47.5	3,400	3,447.5
RGE 052196 - F16	9.39	638	647.39
RGE 052296 - F17	11.5	3,040	3,051.5
RGE 052296 - F18	36.9	8,430	8,466.9
RGE 052896 - F19	(2.56) 1.48	(476) 361	(478.56) 262.48
RGE 052896 - F20	0.95	68.2	69.15

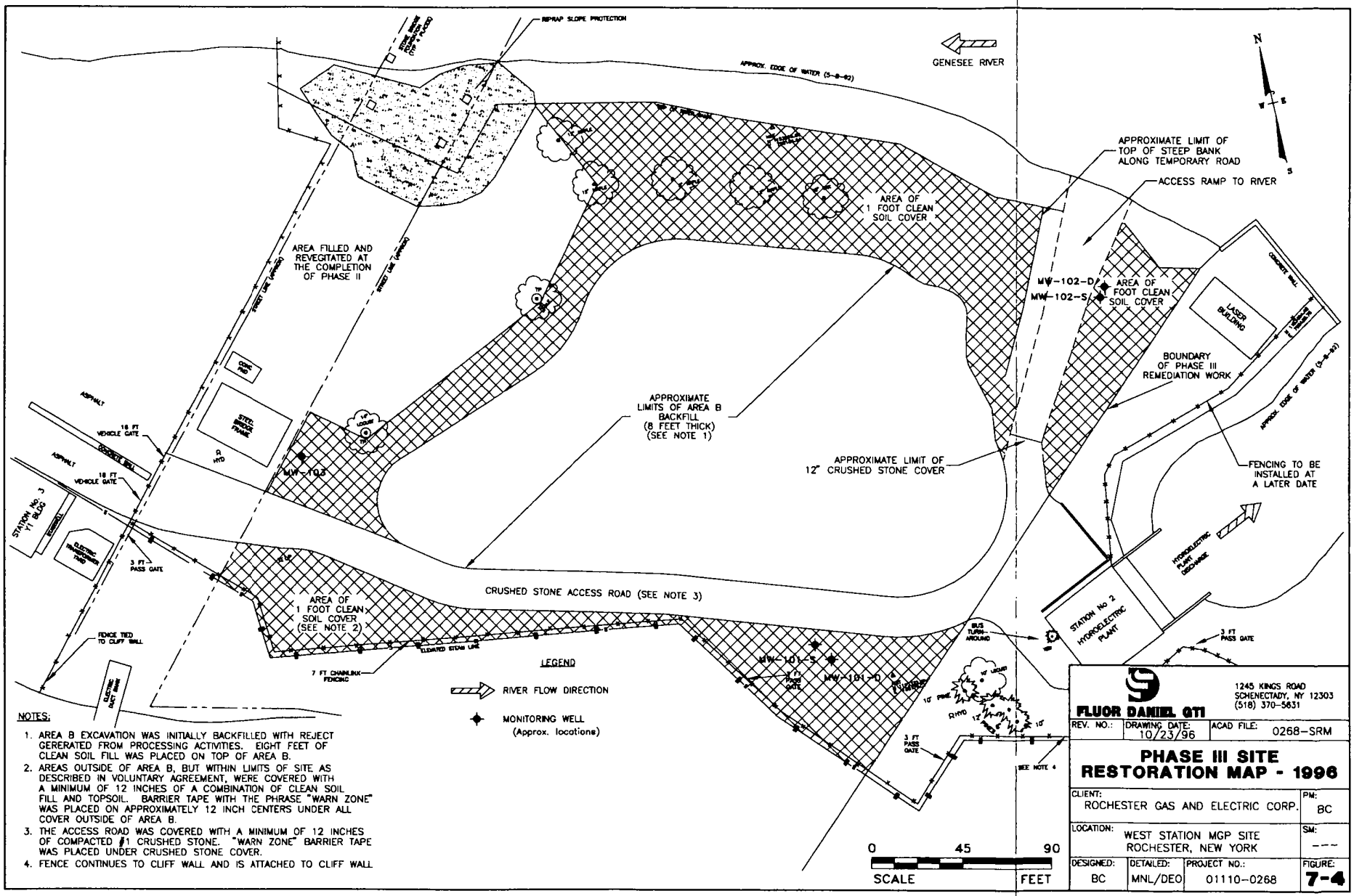
TABLE 7-7
Phase III Excavation Endpoint Analytical Results
Total MAH-PAH Concentration

Sample Identification	Total MAH (ppm)	Total PAH (ppm)	Total MAH-PAH (ppm)
RGE 052896 - F21	1.86	619	620.86
RGE 052896 - F22	9.27	2,080	2,089.27
RGE 052996 - F23	1.27	80.1	81.37
RGE 061096 - F24	(15.2) 2.41	(2,980) 748	(2,995.2) 750.41
RGE 061096 - F25	5.99	1,350	1,355.9
RGE 061096 - F26	2.61	619	621.61
RGE 061796 - F27	1.13	92.7	93.83
RGE 061796 - F28	(2.92) 2.74	(407) 320	(409.92) 322.74
RGE 061796 - F29	0.62	67.5	67.72
RGE 061796 - F30	6.72	1,010	1,016.72
RGE 040896 - W1	6.49	673	679.49
RGE 040896 - W2	1.24	185	186.24
RGE 041296 - W3	(2.05) 6.66	(979) 1,220	(981.05) 1,226.66
RGE 042396 - W4	0.24	3.22	3.46
RGE 051596 - W5	ND	43.1	43.10
RGE 052196 - W6	9.17	915	924.17
RGE 060796 - W7	0.21	17.4	17.61
RGE 061096 - W8	0.54	34.3	34.84
RGE 061096 - W9	2.56	636	638.56
RGE 060796 - W10	50.4	4,980	5,030.4
RGE 060796 - W11	0.76	561	561.76
RGE 061796 - W12	4.62	575	579.62
RGE 061796 - W13	3.33	375	378.33

TABLE 7-7
Phase III Excavation Endpoint Analytical Results
Total MAH-PAH Concentration

Sample Identification	Total MAH (ppm)	Total PAH (ppm)	Total MAH-PAH (ppm)
RGE 050696 - TTF1	(ND) ND	(28.1) 2.42	(28.1) 2.42
RGE 051096 - TTF2	(0.15) 0.51	(44.4) 84.1	84.61
RGE 051096 - TTF3	0.21	16.4	16.61
RGE 051096 - TTF4	0.25	33.3	33.55
RGE 052296 - TTF5	(1.44) 0.56	(41.7) 90.3	(43.14) 90.86
RGE 050696 - TTW1	0.35	198	198.35
RGE 051096 - TTW2	0.47	38.3	38.77
RGE 051096 - TTW3	12.7	982	994.70
RGE 051096 - TTW4	5.31	41.3	46.61
RGE 052296 - TTW5	0.33	187	187.33
RGE 061196 - RB-1	0.47	342	342.47

Note: Results shown in parentheses are duplicate results.



NOTES:

1. AREA B EXCAVATION WAS INITIALLY BACKFILLED WITH REJECT GERERATED FROM PROCESSING ACTIVITIES. EIGHT FEET OF CLEAN SOIL FILL WAS PLACED ON TOP OF AREA B.
2. AREAS OUTSIDE OF AREA B, BUT WITHIN LIMITS OF SITE AS DESCRIBED IN VOLUNTARY AGREEMENT, WERE COVERED WITH A MINIMUM OF 12 INCHES OF A COMBINATION OF CLEAN SOIL FILL AND TOPSOIL. BARRIER TAPE WITH THE PHRASE "WARN ZONE" WAS PLACED ON APPROXIMATELY 12 INCH CENTERS UNDER ALL COVER OUTSIDE OF AREA B.
3. THE ACCESS ROAD WAS COVERED WITH A MINIMUM OF 12 INCHES OF COMPACTED #1 CRUSHED STONE. "WARN ZONE" BARRIER TAPE WAS PLACED UNDER CRUSHED STONE COVER.
4. FENCE CONTINUES TO CLIFF WALL AND IS ATTACHED TO CLIFF WALL

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PHASE III SITE RESTORATION MAP - 1996

CLIENT:	PM:
ROCHESTER GAS AND ELECTRIC CORP.	BC
LOCATION: WEST STATION MGP SITE ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
BC	MNL/DEO	01110-0268	7-4

The fill material used was a mixture of sand and clay from a clean fill source. The NYSDEC mining permit for the fill source is included in **appendix I**. The material was installed in a single lift because no compaction specification was required. A certain amount of compaction was obtained from the tracking of the dozer (Komatsu D68E) and the truck traffic on previously dumped fill material.

A total of 20,465 tons of fill was imported from the borrow source for the Area B excavation. The backfilling of the Area B excavation also included installing fill on the areas between Area B and the riverbank and between Area B and the limits of former Area A. Once backfilling was completed to the boundary of the Area B excavation, the fill was sloped down to the outer edges while maintaining the 1-foot minimum cover required. Further details of backfilling activities outside of Area B are provided in the following section.

The Area B excavation was also filled with minor amount of other materials. The clean gravel cover from Area B, which had been stockpiled before the Phase III work, was used for fill along with the stockpiled topsoil located to the north of the bridge (**figure 7-1**). Analytical data for this topsoil is included in **appendix I**.

Approximately 100 tons of the clean gravel and 1,000 tons of topsoil were placed into Area B and serve as the bottom of the 8 foot cover layer within the limits of the excavation. In addition to the gravel and topsoil, approximately 100 tons of light rip-rap and stone fill was also used as backfill. This material was remaining on the Beebee Station property from a City of Rochester project on an island in the river adjacent to the site. Temporary roads placed on the island by the City but which had to be removed, were constructed of this material. RG&E agreed to use this material as fill to eliminate the cost of off-site transportation and disposal for the City. A certain portion of this material (1 to 2 tons) was used to restore the riverbank at the location of the coal tar deposit excavation (**figure 7-2**).

A priority of the backfilling operation was to create an area that would be aesthetically pleasing and practical for use as a public recreation area. Therefore, all slopes were created with the intent of being accessible by the general public.

A total of 658 cubic yards of topsoil from a DOT-certified source for topsoil was hauled in and spread in an approximately 4- to 6-inch layer (see **appendix I** for topsoil information). The topsoil was used to complete the 8-foot cover layer. A drawing showing elevations of the area before and after backfilling was prepared by RG&E and stamped by a NYS Certified Public Land Surveyor as required by the voluntary agreement. This drawing is included in **appendix J**.

7.7.2 Backfilling Outside Area B

Before the backfilling of any area outside of Area B, which would contain less than 8 feet of cover, and as required by the NYS Department of Health (DOH), a visible barrier was placed on the existing surface. The intent was to create a warning layer to potential construction workers or the public should the 1-foot layer of clean cover be penetrated. This warning layer would further reduce the potential of exposure to on site MGP residuals.

The actual visible barrier agreed to by RG&E, NYSDEC, and New York State Department of Health (NYSDOH) was 3-inch-wide, yellow plastic barrier tape with the phrase "warn zone" printed on it. The barrier tape was installed on all areas outside of the Area B excavation that had received less than 8 feet of cover. The tape was installed using 12-inch spacing.

The same fill material as described in the previous section was used for fill on the areas outside of the Area B excavation. The fill was installed to a minimum depth of approximately 6 to 8 inches and later brought to the required one foot by the addition of topsoil. A total of 1,154 tons of fill material was imported for cover in the areas outside the Area B excavation. A total of 525 cubic yards of topsoil from a DOT-certified borrow source for topsoil was placed on all areas requiring 1-foot total of clean cover.

7.7.3 Seeding

All areas within the site that received backfill and topsoil were hydroseeded with a mixture of seed types as required by RG&E. As of the writing of this report, turf has been established in the hydroseeded areas.

7.8 Health and Safety Summary

The Health and Safety Program developed and implemented for the Phase III West Station remediation project was consistent with the NYSDEC guidance document (TAGM 4031), the requirements of the Monroe County Health Department (MCHD), the Occupational Safety and Health Administration (OSHA) standard 29 CFR 1910.120 to minimize exposure of workers, and OSHA standard for 1926.650 for excavation and trenching.

All site activities were conducted under the site specific Health and Safety Plan (HASP). This plan was submitted to the NYSDEC and MCHD for review before the initiation of Phase III site activities. The HASP developed for Phase III was based on the HASP used during the test burn project. Section 6.5.9 describes the HASP and the information contain therein.

7.8.1 Ambient Air Monitoring Program

The scope of the air monitoring program was based on the residues suspected at the site. This knowledge had been generated during subsurface investigations, previous air quality monitoring results obtained at the site during the Phase I and Phase II projects, and experience at similar MGP sites. The contaminants measured were benzene and fugitive particles ranging from 0.1 to 10 microns.

Air monitoring was performed using a combination of stationary and portable sampling equipment and real-time monitoring instruments. The objectives of the air monitoring program were as follows:

- Conduct personal air sampling for workers to quantify levels of exposure to site contaminants during intrusive activities and correlate with real-time monitoring to validate that the correct level of personal protection has been designated.
- Conduct work zone perimeter air monitoring to quantify air emission levels and correlate with real-time monitoring to determine compliance with ambient air standards.
- Correlate the data from the personal air sampling and direct reading instrument monitoring with the fence line air monitoring results as an indicator of potential community air quality excursions.
- Identify conditions during which work practices must be modified or engineering controls initiated to reduce worker exposure levels and perimeter air contaminant concentrations.

7.8.1.1 Sampling Events. The air monitoring program involved collecting stationary and personal air samples during excavation and processing activities. Two sets of background air samples were collected at the perimeter of the site, one set before work, and one set after completion of work. Samples were sent to the Galson Analytical Laboratory, and to Buck Environmental Laboratory, Inc., American Industrial Hygiene Association (AIHA) accredited laboratories. The sampling strategy included the following:

Perimeter Samples. Perimeter monitoring included three sampling stations for benzene using NIOSH methods. The sampling locations are identified in **figure 7-1**. Two sets of background (pre- and post-construction activities) were collected and analyzed. These results are presented in **appendix K**.

Three stationary sampling locations were established along the perimeter of the site (**figure 7-1**) to collect air samples using sorbent tubes for benzene analysis. The baseline particulate (pre- and post-construction) samples were collected using a portable aerosol monitor (MINIRAM PDM-3). Baseline

perimeter particulate monitoring results are included in **appendix L**.

Personal Samples. Personal air monitoring using NIOSH methods was conducted for the workers performing the excavation and processing activities. This included equipment operators during the excavation and processing of the MGP residuals. Each of these work tasks were monitored to document employee exposure. Samples were collected and analyzed for benzene. Personal and area air sampling results are included in **appendix K**.

Real-Time Monitoring. Real-time air monitoring was conducted during all excavation and processing activities as described below. This included use of a photoionization detector (PID) and a portable aerosol/dust monitor. Daily monitoring results were faxed to MCHD for review (**appendix L**). The schedule of real-time monitoring events follows:

- Photoionization Detector (PID)
  - Frequency: Two-hour interval during the excavation of impacted soil and every 1-hour interval when coal tar was exposed
  - Locations: Perimeter of exclusion zone and breathing zone of workers
  - Note: The monitoring was performed by the safety officer (field engineer) walking the work area. The results were recorded to describe the location, wind direction, time of day, and instrument results.
- Real-Time Aerosol Monitor (MINIRAM)
  - Frequency: Continuous monitoring integrated over a 1-hour interval
  - Location: Downwind from exclusion zone
  - Note: The results were recorded to describe the location, wind direction, time of day, length of monitoring period, and instrument results (peak and average).

7.8.1.2 Sampling Methodologies. All air sample collection and direct instrument measurements were conducted following proper industrial hygiene practices. NIOSH methods, where appropriate, were followed as were instrument manufacturer guidelines.

Equipment, including air monitoring pumps, was maintained, operated, and calibrated each day (pre- and post-sample collection) according to the equipment vendors' operations manual.

The following methodology was used for the air monitoring plan for benzene for Phase III:

Benzene. Personal and stationary area samples for benzene were collected by drawing air through standard 100 milligram charcoal sorbent tubes using personal air sampling pumps set at a flow-rate of approximately 0.1 to 0.2 liters per minute. Pumps were pre- and post-calibrated using the primary bubble tube method.

Samples were analyzed by an AIHA-accredited laboratory using NIOSH Method 1501, Gas Chromatography FID, for low-level benzene.

Sample Handling. All samples collected were placed in appropriate shipping containers. The samples were transported to the various laboratories under strict chain-of-custody protocols via an independent courier for next-day delivery.

The samples were prepared in accordance with procedures established in the NIOSH methods identified above.

7.8.1.3 Action Levels. The action levels that were established for this project follow sections 29 CFR 1910.120 to determine the proper and safe level of protection during the sampling and data collection process: [1910.120 (C) Site Characterization and Analysis, 1910.120 (g) Engineering Controls, Work Practices, and Personal Protective Equipment for Employee Protection, and 1910.120 (h) Monitoring]. The action levels used were:

- Volatile Organic Compounds: >5 ppm above background (sustained for a period of 5 minutes); at spike, automatically pull sorbent tube measurement for benzene.
- Particulate (measured downwind): >0.15 mg/m3 (1-hour average) above background.

The action levels for this Phase III project were not exceeded at any time during the entire project. Air monitoring results are included in **appendix L**.

7.8.2 Air Monitoring Results

The following subsections describe the results obtained during execution of the ambient air monitoring program.

7.8.2.1 Pre-Activity Air Sampling. Pre-work baseline air samples were collected on September 27, 1995. One air sample was collected from each stationary air sampling station (**figure 7-1**) and analyzed for benzene. Laboratory analytical results are presented in **table 7-8**. These data revealed

that benzene was not detected in the ambient air. The data are included in **appendix K**.

TABLE 7-8
Pre-Activity Air Sampling
Benzene Concentrations

Sample ID	Air Volume (L)	Laboratory ID	mg/m^3	ppm
092795 BB01	8.77	L25966-1	<0.2	<0.07
092795 BB02	10.04	L25966-2	<0.2	<0.06
092795 BB03	334	L25966-3	<0.006	<0.002

Pre-activity particulate levels were monitored and documented throughout the day of October 25, 1995, using a Miniram real-time monitor. The results were documented on an air monitoring form. Monitoring indicated that the ambient air particulate levels at the site averaged 0 mg/m^3 to 0.02 mg/m^3 for a 1-hour period with a peak reading of 0.04 mg/m^3.

7.8.2.2 Routine Sampling. Routine sampling occurred daily during normal site activities when MGP residual wastes or processed materials were exposed. Routine sampling ceased on June 27, 1996, after the last of the coal tar fuel product had been loaded out. Only backfilling and site restoration activities occurred after that date. The decision to cease daily monitoring at that time was made mutually by RG&E and the MCHD.

VOC levels were monitored with a PID with a 10.6 eV lamp. Organic vapor levels did not exceed the specified action levels. The maximum VOC emission source was the heated coal tar mixing container. VOC levels were measured at 9 ppm (maximum) in this area. The measurement of VOC levels above the mixing tanks constituted an area sample, not a breathing zone sample.

Particulate levels were also monitored during site activities. The action limit for ambient particulates downwind of the exclusion zone was not exceeded during the course of the Phase III project. All daily air monitoring forms are included in **appendix L**.

7.8.2.3 Post Activity Sampling. Post activity air samples were collected on August 30, 1996, for benzene. The samples were collected from the same locations as the pre-activity air samples. Laboratory analytical results as shown in **table 7-9** reveal that no benzene was detected in the

ambient air subsequent to the Phase III remediation project.

TABLE 7-9
Post-Activity Air Sampling
Benzene Concentrations

Sample ID	Air Volume (L)	Laboratory ID	Mg/m^3	ppm
SAS-1	67.05	L3210-1	<0.03	<0.009
SAS-2	65.10	L32210-2	<0.03	<0.01
SAS-3	61.20	L32210-3	<0.03	<0.01
LAB BLANK	NA	L32210-4	NA	NA

Limit of Quantitation: 2 µg
ppm = parts per million

Real-time particulate levels were monitored and documented throughout the day on August 30, 1996. The results were documented on the Air Monitoring Form and included in **appendix L**. Monitoring indicated that the ambient particulate levels during that time averaged 0.01 mg/m^3 with a peak reading of 0.03 mg/m^3.

7.8.2.4 Personal and Area Sampling Results. Personal air monitoring was conducted for the workers performing the excavation and processing activities. Samples for benzene were collected from equipment operators (excavator, blender) and from the area of the screened product discharge chute on the screening plant. The results of all samples taken indicate that the OSHA Personal Exposure Limit (PEL) of 1 ppm was never exceeded. Analytical data for the personal air samples and area air samples are included in **appendix K**.

RG&E collected an additional 5 sets of personal and area air samples beyond the requirements of the site specific HASP. The results for Benzene concentration ranged from 0.013 ppm to 0.48 ppm.

7.8.3 Site Safety

To ensure compliance with the provisions of the HASP, site safety audits were conducted. Occasionally, it was necessary to remind equipment operators to wear safety glasses. No significant violations of safety protocol were noted during the project.

Two health and safety incidents occurred during the Phase III remediation project. In the first, an equipment operator suffered a minor case of dermatitis on his lower extremities. Investigation determined that he had exposed his legs to coal tar soils by climbing the stockpiles to place the tarps on the piles each night. He was informed about the need to wear proper footwear and the issue was also addressed in a daily tailgate safety meeting soon thereafter. He began to wear higher rubber boots to perform the tarping task and the symptoms subsided.

In the second incident, a worker suffering from a gastrointestinal virus fainted on the work site. Although an ambulance was called, he regained consciousness and insisted on seeing his personal physician. He reported later, as had the paramedics who examined him on-site, that his condition was caused by dehydration and lack of nourishment related to the gastrointestinal illness. Within several days, the worker was back on-site and suffered no repeat incidents.

7.9 Fence Installation

A requirement of the voluntary agreement was to cover all areas outside of the excavation (which have 8 feet of cover) with a minimum of 1 foot of clean fill material. The installation of this cover layer minimized the potential of exposure of the surface soils. However, the execution of this requirement in all area defined by the voluntary agreement would have included the covering of the steep bank of material located against the cliff wall to the southwest of Area B (**figure 1-2**). These loosely compacted, granular materials are commonly referred to as the Cliff Base Soils. RG&E evaluated the feasibility (including cost, schedule and safety issues) of covering the Cliff Base Soils and determined that an alternative had to be developed. The alternative of installing a fence to create a barrier to the Cliff Base Soils from the site was approved by NYSDEC.

RG&E installed a 7-foot-high, chain link fence along the southwestern edge of the site as detailed in **figure 7-4** and the detail drawing included in **appendix J**. The end of the fence near RG&E's hydroelectric generating plant known as Station 2 is tied to the cliff wall. The end under the Pont De Rennes Bridge is attached to another section of fence, which separates the Beebee Station facility from the Park Area. This section of fence is attached to the cliff wall and extends to the river bank. Fencing has also been installed to the south of the Station 2 discharge. Fencing is expected to be installed along the north bank of the Station 2 discharge in 1997.

APPENDIX A

PHASE III VOLUNTARY AGREEMENT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the
Development and Implementation
of a Response Program
for Rochester Gas and Electric
Corporation's West Station Property
by

Rochester Gas and Electric Corporation,
Volunteer.

AGREEMENT

INDEX NUMBER: D8-0001-95-10

CONSIDERING,

1. The New York State Department of Environmental Conservation (the "Department") is responsible for enforcement of Article 27, Title 13 of the Environmental Conservation Law of the State of New York ("ECL"), entitled "Inactive Hazardous Waste Disposal Sites." This Agreement is entered into pursuant to the Department's authority under, inter alia, ECL Article 27, Title 13 and ECL 3-0301.

2. Rochester Gas and Electric Corporation ("Volunteer") is a public utility with its principal offices at 89 East Avenue, Rochester, New York 14649. Volunteer owns a parcel of real property located at the foot of the High Falls on the west bank of the Genesee River in the City of Rochester. The property is sometimes known as "Beebee Park." A portion of the Beebee Park property that is the subject of this Agreement and that is more fully described in Exhibit "A" of this Agreement ("Site") contains residues associated with the historic operations of a manufactured gas plant. The residues are principally coal tar and soil containing coal tar ("Existing Contamination"). Volunteer intends to excavate and remove the Existing Contamination from the Site ("Response Action") in preparation for the property's future use as commercial/industrial/recreational land.

3. The Department alleges that the Site may be an inactive hazardous waste disposal site, as that term is defined at ECL 27-1301.2, based upon the presence of, inter alia, the coal tar which contains, among other constituents, benzene; and the presence of the coal tar may or may not constitute a significant threat to the environment.

4. A. ECL 27-1313.3 provides that the Department shall be responsible for inactive hazardous waste disposal site remedial programs, except as provided in Section 1389-b of the Public Health Law. ECL 27-1313.3.a(i) provides that whenever the Commissioner of Environmental Conservation finds that hazardous wastes at an inactive hazardous waste disposal site constitutes a significant threat to the environment, he may order the owner of such site and/or any person responsible for the disposal of hazardous wastes at such site to develop an inactive hazardous waste disposal site remedial program within reasonable time limits specified in the order.

B. The Department also has the power, inter alia to provide for the prevention and abatement of all water, land, and air pollution. ECL 3-0301.1.i.

5. Volunteer wishes to enter into this Agreement in order to ensure, and the Department hereby determines that this Agreement constitutes a demonstration, that the Response Action will be in compliance with the ECL and will not:

A. prevent or interfere significantly with any proposed, ongoing or completed remedial program at the Site, or

B. expose the public health or the environment to a significantly increased threat of harm or damage.

Volunteer also wishes to enter into this Agreement in order to resolve any potential liability it may have respecting the Site's remediation, and the Department finds that such resolution, undertaken in accordance with the terms of this Agreement, is in the public interest.

6. The Department and Volunteer, therefore, agree that the goals of this Agreement are:

A. for Volunteer to, (i) implement a Department-approved response action for the Site ("Response Program"); and (ii) reimburse the State's administrative costs, and

B. for the Department and the Trustee of New York State's environmental resources (the "Trustee"), under the circumstances described within this Agreement, to release the Volunteer and its successors and assigns, under the conditions set forth in this Agreement, from any and all claims, actions, suits, and proceedings (including but not limited to any claims for State administrative costs) by the Department or by the Trustee, which may arise under any applicable law as a result of the Existing Contamination.

7. Volunteer agrees to be bound by the terms of this Agreement. Volunteer consents to and agrees not to contest the authority or jurisdiction of the Department to issue or enforce this Agreement, and agrees not to contest the validity of this Agreement or its terms.

IN CONSIDERATION OF AND IN EXCHANGE FOR THE DEPARTMENT'S RELEASE AND COVENANT NOT TO SUE SET FORTH IN THIS AGREEMENT, VOLUNTEER AGREES TO THE FOLLOWING:

I. Performance and Reporting of the Response Program

A. Within 30 days after the effective date of this Agreement, the Volunteer shall commence the Response Action in accordance with the Department-approved Response Program work plan (the "Work Plan") attached to this Agreement and made part of this Agreement as Exhibit "B."

B. Volunteer shall perform the Response Program in accordance with the Work Plan. The Volunteer shall notify the Department of any significant difficulties that may be encountered in implementing the Work Plan, any Department-approved modification to the Work Plan, or any Department-approved details, documents, or specifications prepared by or on behalf of Volunteer pursuant thereto, and shall not modify any such obligation unless first approved by the Department.

C. During implementation of all construction activities identified in, or to be identified in accordance with, the Work Plan, Volunteer shall have on-Site a full-time representative who is qualified to supervise the work done.

D. In accordance with the schedule contained in the Work Plan, Volunteer shall submit to the Department a final engineering report. The final engineering report shall include a detailed post-remedial operation and maintenance plan ("O&M Plan"), to the extent necessary; "as-built" drawings showing all changes made during construction, to the extent necessary; and a certification that the Response Program was implemented and all construction activities were completed in full accordance with the Work Plan, any Department-approved detail, document, or specification prepared by or on behalf of Volunteer pursuant thereto, and this Agreement. The O&M Plan, "as built" drawings, final engineering report, and certification must be prepared, signed, and sealed by a professional engineer.

E. Should post-remedial operation and maintenance prove to be necessary, upon the Department's approval of the O&M Plan, Volunteer shall implement the O&M Plan in accordance with the schedule and requirements of the Department-approved O&M Plan.

F. Within 60 days after receipt of the final engineering report and certification, the Department shall notify Volunteer in writing whether the Department is satisfied that the Response Action was completed in compliance with the Work Plan and design.

G. Once the Site-specific cleanup objectives identified in, or to be identified in accordance with, the Work Plan have been reached, the Department shall, except for the reservations identified below, forebear from bringing any action, proceeding, or suit against Volunteer for the further investigation and remediation of the Site based upon the release or threatened release of any Existing Contamination. Nevertheless, the Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary:

1. due to environmental conditions related to the Site that were unknown to the Department at the time of its approval of the Work Plan or the last written modification approved by the Department thereto; or

2. due to information received, in whole or in part, after the Department's approval of the final engineering report and certification, which indicates that the Response Action performed under this Agreement is not sufficiently protective of human health for the reasonably anticipated commercial/industrial/recreational uses of the Site by Volunteer

or its lessees, sublessees, licensees, or invitees.

Additionally, the Department hereby reserves all of its rights concerning, and any such release and satisfaction shall not extend to, any further investigation or abatement it deems necessary to be undertaken in the event that, Volunteer causes or suffers the release or threat of release at the Site of any hazardous substance (as that term is defined at 42 USC 9601[14]) or petroleum (as that term is defined in Navigation Law §172[15]) after the effective date of this Agreement; or Volunteer causes a, or suffers the use of the Site to, change from the reasonably anticipated commercial/industrial/recreational uses of the Site to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health.

H. If the Department is satisfied that the Response Action was completed in compliance with the Work Plan and design, the Department shall provide Volunteer with the separate written "clean site notification" letter that is attached to this Agreement and incorporated in this Agreement as Exhibit "C" agreeing, subject to the limitations set forth in that letter, to release, covenant not to sue, and forbear from bringing any action, proceeding, or suit against the current or future owners and operators of the Site or any interest in the Site, including Volunteer, for the further investigation and remediation of the Site based upon the release or threatened release of any Existing Contamination.

II. Progress Reports

A. Volunteer shall submit to the parties identified in Subparagraph XI.A.1, in the numbers specified therein, copies of written monthly progress reports that:

1. describe the actions which have been taken toward achieving compliance with this Agreement during the previous month;

2. include all results of sampling and tests and all other data received or generated by Volunteer or Volunteer's contractors or agents in the previous month, including quality assurance/quality control information, whether conducted pursuant to this Agreement or conducted independently by Volunteer;

3. identify all work plans, reports, and other deliverables required by this Agreement that were completed and submitted during the previous month;

4. describe all actions, including, but not limited to, data collection and implementation of work plans, that are scheduled for the next month and provide other information relating to the progress at the Site;

5. include information regarding percentage of completion, unresolved delays encountered or anticipated that may affect the future schedule for implementation of Volunteer's obligations under the Agreement, and efforts made to mitigate those delays or anticipated delays; and

6. include any modifications to any work plans that the Volunteer has proposed to the Department or that the Department has approved; and include any modifications to the Work Plan that Volunteer has proposed to the Department or that the Department has approved.

B. Volunteer shall submit these progress reports to the Department by the twentieth day of every month following the effective date of this Agreement and the Volunteer's obligation to submit the progress reports shall terminate upon their receipt of the notification pursuant to Subparagraph I.F of this Agreement.

C. Volunteer also shall allow the Department to attend, and shall provide the Department at least five days advance notice of, any of the following: prebid meetings, job progress meetings, substantial completion meeting and inspection, and final inspection and meeting, if any.

III. Review of Submittals

A. 1. The Department shall review each of the submittals Volunteer makes pursuant to this Agreement to determine whether it was prepared, and whether the work done to generate the data and other information in the submittal was done, in accordance with this Agreement and generally accepted technical and scientific principles. The Department shall notify Volunteer in writing of its approval or disapproval of the submittal. All Department-approved submittals shall be incorporated into and become an enforceable part of this Agreement.

2. a. If the Department disapproves a submittal, it shall so notify Volunteer in writing and shall specify the reasons for its disapproval within 30 days after its receipt of the submittal (in the case of the review of the final engineering report and certification, however, such period shall be 60 days), and may request Volunteer to modify or expand the submittal; provided, however, that the matters to be addressed by such modification or expansion is within the specific scope of work as described in the Work Plan. Within 30 days after receiving written notice that Volunteer's submittal has been disapproved, Volunteer shall make a revised submittal to the Department which endeavors to address and resolve all of the Department's stated reasons for disapproving the first submittal.

b. After receipt of the revised submittal, the Department shall notify Volunteer in writing within 30 days of its approval or disapproval. If the Department disapproves the revised submittal, the Department and the Volunteer may pursue whatever remedies may be available at law or in equity (by declaratory relief) that may be available to them, without prejudice to either's right to contest the same. If the Department approves the revised submittal, it shall be incorporated into and become an enforceable part of this Agreement.

B. Within 30 days after the Department's approval of the final engineering report and certification, Volunteer shall submit to the Department one microfilm copy

(16 millimeter roll film M type cartridge) of that report and all other Department-approved drawings and submittals. Such submission shall be made to Michael J. O'Toole, Jr., Director; Division of Hazardous Waste Remediation; New York State Department of Environmental Conservation; 50 Wolf Road; Albany, New York 12233-7010.

IV. Enforcement

A. This Agreement shall be enforceable as a contractual agreement under the laws of the State of New York.

B. Volunteer shall not suffer any penalty under this Agreement or be subject to any proceeding or action if it cannot comply with any requirement of this Agreement because of fire, lightning, earthquake, flood, adverse weather conditions, strike, shortages of labor and materials, war, riot, obstruction or interference by adjoining landowners, or any other fact or circumstance beyond the Volunteer's reasonable control ("force majeure event"). Volunteer shall, within five working days of when it obtains knowledge of any such force majeure event, notify the Department in writing. Volunteer shall include in such notice the measures taken and to be taken by the Volunteer to prevent or minimize any delays and shall request an appropriate extension or modification of this Agreement. Volunteer shall have the burden of proving by a preponderance of the evidence that an event is a defense to compliance with this Agreement pursuant to this Subparagraph IV.B.

V. Entry upon Site

A. Volunteer hereby consents to the entry upon the Site or areas in the vicinity of the Site which may be under the control of Volunteer by any duly designated employee, consultant, contractor, or agent of the Department or any State agency having jurisdiction with respect to the Remedial Program for purposes of inspection, sampling, and testing and to ensure the Volunteer's compliance with this Agreement. The Department shall abide by the health and safety rules in effect for work performed at the Site under the terms of this Agreement. Upon request, Volunteer shall provide the Department with suitable office space at the Site, including access to a telephone, and shall permit the Department full access to all records relating to matters addressed by this Agreement and job meetings.

VI. Payment of State Costs

Within thirty days after receipt of an itemized invoice from the Department, Volunteer shall pay to the Department a sum of money not to exceed $45,000.00 which shall represent reimbursement for the State's expenses reasonably incurred during the implementation of this Agreement with respect to the Existing Contamination including, but not limited to, direct labor, fringe benefits, indirect costs, travel, analytical costs, and contractor costs incurred by the State of New York for work performed at the Site to date, as well as for negotiating this Agreement, reviewing and revising submittals made pursuant to this Agreement, overseeing activities conducted pursuant to this Agreement, collecting and analyzing samples, and administrative costs associated with this Agreement. Such payment shall be made by certified check payable to the Department of Environmental

Conservation. Payment shall be sent to:

Director, Bureau of Program Management
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-7010.

Itemization of the costs shall include an accounting of personal services indicating the employee name, title, biweekly salary, and time spent (in hours) on the project during the billing period, as identified by an assigned time and activity code. This information shall be documented by reports of Direct Personal Service. Approved agency fringe benefit and indirect cost rates shall be applied. Non-personal service costs shall be summarized by category of expense (e.g., supplies, materials, travel, contractual) and shall be documented by the New York State Office of the State Comptroller's quarterly expenditure reports.

VII. Reservation of Rights

A. Except as specifically provided in this Agreement with respect to Volunteer and its lessees, sublessees, successors, and assigns, and their respective secured creditors, nothing contained in this Agreement shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights with respect to any party.

B. Nothing contained in this Agreement shall prejudice any rights of the Department to take any investigatory or remedial action it may deem necessary if Volunteer fails to comply with this Agreement or if environmental conditions unknown or unforeseen at the effective date of this Agreement are encountered at the Site.

C. Nothing contained in this Agreement shall be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers.

D. Volunteer reserves any rights it may have to contest, defend against, dispute or disprove any actions, proceedings, allegations, assertions, determinations, or orders of the Department, except with respect to the validity of this Agreement or its terms, and reserves its rights to notice, to be heard, to appeal, and to any other due process in any action or proceeding by the Department, including any action or proceeding pursuant to or to enforce this Agreement. The existence of this Agreement or the fact that Volunteer participated in activities pursuant to this Agreement shall not constitute, be construed as, nor be considered an admission of liability, fault, wrongdoing, or violation of any law, regulation, or permit condition by Volunteer, and shall not give rise to any presumption of law or finding of fact which shall inure to the benefit of any third party.

VIII. Indemnification

Volunteer shall indemnify and hold the Department, the State of New York, and

their representatives and employees harmless for all claims, suits, actions, damages, and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Agreement by Volunteer and/or any of Volunteer's directors, officers, employees, servants, agents, successors, and assigns; provided, however, that Volunteer shall not indemnify the Department, the State of New York, and their representatives and employees if such claim, suit, action, damages, or costs relates to or arises from any unlawful, willful, negligent, grossly negligent, or malicious act or omission on the part of the Department, the State of New York, or their representatives and employees.

IX. Notice of Sale or Conveyance

A. Within 30 days after the effective date of this Agreement, the Volunteers shall file the Notice of Agreements which is attached to this Agreement as Exhibit "D," with the Monroe County Clerk to give all parties who may acquire any interest in the Property notice of this Agreement.

B. If Volunteer proposes to convey the whole or any part of Volunteer's ownership interest in the Property before the Department has notified Volunteer that the Department is satisfied that the Response Action was completed in compliance with the Work Plan and design pursuant to Subparagraph I.F of this Agreement, Volunteer shall, not fewer than 30 days before the date of conveyance, notify the Department in writing of the identity of the transferee and of the nature and proposed date of the conveyance and shall notify the transferee in writing, with a copy to the Department, of the applicability of this Agreement.

C. In the event of an assignment or transfer of the Property or an assignment or transfer of an interest in the Property to another person after the Department has notified Volunteer that the Department is satisfied that the Response Action was completed in compliance with the Work Plan and design pursuant to Subparagraph I.F of this Agreement, the assignee or transferee shall be bound by all the terms and conditions, and subject to all the benefits, of this Agreement, except as the Department and the assignee or transferee agree otherwise and modify this Agreement, in writing, accordingly.

X. Deed Restriction

Within 30 days of the receipt of the Department's notification pursuant to Subparagraph I.F of this Agreement, Volunteer shall, unless the requirements of this Paragraph X are waived in writing by the Department, record an instrument with the Monroe County Clerk, to run with the land, that shall prohibit the Site from ever being used for purposes other than commercial/industrial/recreational use without the express written waiver of such prohibition by the Department, or if at such time the Department shall no longer exist, any New York State department, bureau, or other entity replacing the Department. Volunteer shall provide the Department with a copy of such instrument certified by the Monroe County Clerk to be a true and faithful copy of the instrument as recorded in the Office of the Monroe County Clerk.

XI. Communications

A. All written communications required by this Agreement shall be transmitted by United States Postal Service, by private courier service, or hand delivered.

1. Communication from Volunteer shall be sent to:

Mary Jane Peachey, P.E.
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

with copies to:

G. Anders Carlson, Ph.D.
Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
2 University Place
Albany, New York 12203

Charles E. Sullivan, Jr.
New York State Department of Environmental Conservation
50 Wolf Road, Room 410A
Albany, New York 12233-5550

Copies of work plans and reports shall be submitted as follows:

- Four copies (one unbound) to Ms. Peachey
- Two copies to Dr. Carlson
- One copy to Mr. Sullivan

2. Communication to be made from the Department to Volunteer shall be sent to:

Kevin Hylton
Rochester Gas and Electric Corporation
89 East Avenue
Rochester, New York 14649

Thomas F. Walsh, Esq.
Nixon, Hargrave, Devans & Doyle LLP
Clinton Square
P.O. Box 1051
Rochester, NY 14603

B. The Department and Volunteer reserve the right to designate additional or different addressees for communication on written notice to the other given in accordance with this Paragraph XI.

XII. Miscellaneous

A. Volunteer shall retain professional consultants, contractors, laboratories, quality assurance/quality control personnel, and data validators acceptable to the Department to perform the technical, engineering, and analytical obligations required by this Agreement. The responsibility for the performance of the professionals retained by Volunteer shall rest solely with Volunteer.

B. The Department shall have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled by Volunteer, and the Department also shall have the right to take its own samples. Volunteer shall make available to the Department the results of all sampling and/or tests or other data generated by Volunteer with respect to implementation of this Agreement and shall submit these results in the progress reports required by this Agreement. Volunteer shall have the right to obtain split samples and/or a copy of analytical results of all substances and materials sampled by the Department.

C. Volunteer shall notify the Department at least five working days in advance of field activities to be conducted pursuant to this Agreement.

D. 1. Subject to Subparagraph XII.D.2, Volunteer shall obtain all permits, easements, rights-of-way, rights-of-entry, approvals, or authorizations necessary to perform Volunteer's obligations under this Agreement.

2. In performing Volunteer's obligations under this Agreement, Volunteer shall be exempt from the requirement to obtain any Department permit for any activity that is conducted on the Site and that satisfies all substantive technical requirements applicable to like activity conducted pursuant to a permit.

E. Volunteer's officers, directors, agents, servants, and employees (in the performance of their designated duties on behalf of Volunteer) shall be bound by this Agreement. Any change in ownership or corporate status of Volunteer including, but not limited to, any transfer of assets or real or personal property shall in no way alter Volunteer's responsibilities under this Agreement. Volunteer's officers, directors, employees, servants, and agents shall be obliged to comply with the relevant provisions of this Agreement in the performance of their designated duties on behalf of Volunteer.

F. Volunteer shall be responsible for ensuring that the Volunteer's contractors and subcontractors perform the work in satisfaction of the requirements of this Agreement.

G. All references to "professional engineer" in this Agreement are to an individual registered as a professional engineer in accordance with Article 145 of the New York State

Education Law. If such individual is a member of a firm, that firm must be authorized to offer professional engineering services in the State of New York in accordance with Article 145 of the New York State Education Law.

H. All references to "days" in this Agreement are to calendar days unless otherwise specified.

I. The section headings set forth in this Agreement are included for convenience of reference only and shall be disregarded in the construction and interpretation of any of the provisions of this Agreement.

J. 1. The terms of this Agreement constitute the complete and entire Agreement between the Department and Volunteer concerning the remediation of the Site. No term, condition, understanding, or agreement purporting to modify or vary any term of this Agreement shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment by the Department regarding any report, proposal, plan, specification, schedule, or any other submittal shall be construed as relieving Volunteer of Volunteer's obligation to obtain such formal approvals as may be required by this Agreement.

2. If Volunteer desires that any provision of this Agreement be changed, Volunteer shall make timely written application, signed by Volunteer, to the Commissioner setting forth reasonable grounds for the relief sought. Copies of such written application shall be delivered or mailed to Ms. Peachey and to Mr. Sullivan. However, nothing in this Agreement shall be deemed to prohibit Ms. Peachey from authorizing field changes without first having received permission to do so from the Commissioner under this Subparagraph XII.J.2.

K. This Agreement constitutes an exercise of the Department's enforcement discretion and accordingly, the remedial activities required herein shall be exempt from the provisions of the State Environmental Quality Review Act. Volunteer is also exempt from any Department permitting requirement in the implementation of the Response Program and is authorized to undertake the foregoing Response Program under the authority of this Agreement.

L. The provisions of this Agreement do not constitute and shall not be deemed a waiver of any right Volunteer otherwise may have to seek and obtain contribution and/or indemnification from other potentially responsible parties or their insurers, or Volunteer's insurers, for payments made previously or in the future for response costs. To the extent authorized under 42 USC 9613 and any other applicable law, Volunteer shall not, while performing its obligations under this Agreement or thereafter, be liable for any claim, now or in the future, in the nature of contribution, indemnity or indemnification, however, characterized, by potentially responsible parties concerning the alleged Existing Contamination which is the subject matter of this Agreement. In any future action brought by Volunteer against a potentially responsible party under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, the

provision of 42 USC 9613(f)(3) shall apply. Volunteer specifically reserves all rights that it may have to assert claims against its insurer and/or the potentially responsible parties with respect to the matters addressed in this Agreement, including, without limitation, claims for breach of contract, cost recovery, contribution, tortious conduct and indemnity.

M. Volunteer's obligations under this Agreement, other than its indemnification obligation under Paragraph VIII of this Agreement, terminate when:

1. the Department has notified Volunteer that the Department is satisfied with the work as completed pursuant to Subparagraph I.F of this Agreement;

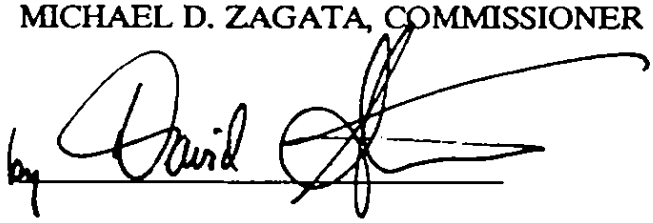
2. Volunteer has fully implemented the O&M Plan, if one is necessary at all, in accordance with the schedule and requirements of the Department-approved O&M Plan; and

3. the Department has received the sums due under Paragraph VI of this Agreement.

N. The effective date of this Agreement shall be the later of the date it is signed by the Commissioner or his designee.

DATED: , New York
, 1995

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
MICHAEL D. ZAGATA, COMMISSIONER



CONSENT BY VOLUNTEER

Volunteer hereby consents to the issuing and entering of this Agreement, waives Volunteer's right to a hearing herein as provided by law, and agrees to be bound by this Agreement.

Rochester Gas and Electric Corporation

Date: 11/10, 1995

By: _____

[name and title of the signatory]

Its: Senior Vice President

STATE OF NEW YORK)
) s.s.:
COUNTY OF MONROE)

On this 10th day of November, 1995, before me personally came Thomas S. Richards to me known, who being duly sworn, did depose and say that s/he resides in Rochester; that s/he is the Sr. Vice President of Rochester Gas and Electric Corporation, the corporation described in the Agreement and which executed the foregoing instrument; and that Thomas S. Richards signed his/her name on behalf of Rochester Gas and Electric Corporation and was authorized to do so.

Notary Public

[illegible] MARSHALL-PARKER
Notary Public, State of New York
MONROE COUNTY
Commission Expires Dec. 12, 1996

EXHIBIT "A"

~~Map of Beebee Park Property~~ Description of the Site

Commencing at a point that is the intersection of the east line of Browns Race with the south line of the former Platt Street Bridge. Running thence along the south line of the former Platt Street Bridge, the following three courses, N 44° 27' 59" E a distance of 6.41 feet to a point. Thence N 36° 23" 44" E a distance of 76.83 feet to a point. Thence N 41° 40' 59" E a distance of 10.00 feet to the point of beginning, thence.

1. N 41° 40' 59" E along the south street line of Platt Street Bridge a distance of 345.92 feet to a point on the top of the west bank of the Genesee River, thence

2. South easterly along the top of the river bank to a point on the north foundation wall of Rochester Gas & Electric Corporation's old station no. 2. Said point being S 63° 23' 48" E a distance of 368.50 feet (tie line course) from the previously described point, thence

3. S 46° 40' 11" W a distance of 319.42 feet to a point that is the northeast corner of lands owned, now or formerly, by the City of Rochester, thence

4. S 45° 33' 45" W a distance of 22.50 feet to a point, thence

5. N 55° 17' 48" W a distance of 72.29 feet to a point, thence

6. N 34° 48' 09" W a distance of 13.55 feet to a point, thence

7. N 61° 01' 33" W a distance of 41.67 feet to a point, thence

8. N 67° 40' 58" W a distance of 54.59 feet to a point, thence

9. N 74° 32' 22" W a distance of 37.25 feet to a point, thence

10. N 67° 41' 08" W a distance of 53.31 feet to a point, thence

11. N 75° 44' 05" W a distance of 74.04 feet to a point in the south line of the former Platt Street Bridge also being the place of beginning, intending to describe a parcel of land containing 2.548 acres up to tie line.

EXHIBIT "B"

Department-Approved Work Plan

New York State Department of Environmental Conservation
Region 8 Office - Division of Hazardous Waste Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Telephone: (716) 226-2466

Michael D. Zagata
Commissioner

Renée Forgensi Davison
Regional Director

November 7, 1995

Kevin Hylton
Rochester Gas & Electric
89 East Avenue
Rochester, New York 14649

Dear Mr. Hylton:

RE: Former West Station Property Voluntary Cleanup Agreement Work Plan

Staff at the New York State Department of Environmental Conservation (the Department), New York State Department of Health (NYSDOH), and the Monroe County Health Department (MCHD) have reviewed the October 26, 1995 response letter to our comments and the revised pages of the work plan. The response and the revised work plan adequately address our comments. The work plan can be considered approvable, with final approval given upon execution of the voluntary agreement, subject to the following condition:

> The written description of the property depicted in Figure 2 shall be appended to the work plan and, for purposes of the voluntary agreement, shall be used to describe what constitutes the "Site;" and the qualified release contained in the agreement will cover only the Site. The remaining portions of the former West Station manufactured gas plant site (currently occupied by Beebee Station) are not subject to the qualified release.

Thank you for your continued cooperation. Please call me if you have any questions.

Sincerely,

Todd M. Caffoe, P.E.
Environmental Engineer II
Division of Hazardous
Waste Remediation

cc: M.J. Peachey
C. Goddard
C. Sullivan
D. Napier
R. Elliott
T. Walsh

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1

To Tom Walsh	From Todd Caffoe
Co.	Co.
Dept.	Phone #
Fax # 263-1600	Fax # 226-2909

ROCHESTER GAS AND ELECTRIC CORPORATION
WEST STATION REMEDIATION WORK PLAN
OCTOBER, 1995 THROUGH JANUARY, 1996

This plan is intended to guide the work on the West Station remediation job. The design consultant, with specific authorization from Rochester Gas and Electric Corporation's (RG&E) project manager, may make changes to the plan prior to the start of work or as the work progresses, only as stated in the plan. Areas where the design consultant may make changes are specifically identified in this plan. If anything in this plan is deemed to conflict with existing contracts or formal arrangements between RG&E and any of its contractors, the terms of the contract shall govern and supersede language contained herein. No such term shall however imply or cause a violation of existing regulation or agreement with regulatory agencies having authority or control over the remediation project which is the subject of this work plan. The specific areas subject to modification by the consultant include but are not limited to:

- o the site plan showing the area to be excavated, soil storage areas, decontamination areas, and specific areas that must remain in service for RG&E access
- o details of additional storage area construction if said area is required beyond that contained within the area to be excavated
- o placement of rolloff boxes or other transport vehicles for movement of pure tars to 7&7 or other treatment facility
- o recommendation for alternate back-up treatment facilities
- o traffic patterns within the RG&E property
- o specific means by which excavated materials will be processed and staged on site and the location of those stockpiles
- o selection of material handling and processing equipment (power screening equipment, excavation equipment, loaders, transport vehicles for material requiring movement on site, etc.
- o location and placement of construction trailers, if needed and required utilities
- o exact sequencing of excavation

- o means of collection of additional data to identify location of underground source tars
- o method of determining whether subsurface pools of source tars are of adequate size to warrant excavation and subsequent removal off site
- o method of determining whether rejected material (greater than one inch top size) meets analytical quality requirements for backfill)
- o method of segregation and cleaning of excavated metal in preparation for recycling
- o method of verification of payment to other contractors for services provided
- o means by which all data is to be collected and information documented for inclusion in the final report

1.0 GENERAL

1.1 Introduction: The purpose of this project is to complete remediation of the Rochester Gas and Electric Corporation (RG&E) property known as Beebee Park. The parcel lies at the foot of the High Falls on the west bank of the Genesee River in the City of Rochester. The parcel contains residues associated with the operation of the former West Station manufactured gas plant (MGP). These residues are principally coal tar and soil containing coal tar costituents. The work is intended to prepare the property for use as industrial/commercial/recreational land. Site specific clean-up goals and objectives, as presented later, reflect this land use. It is RG&E's intention to begin work in mid-October, 1995 and complete the project by the end of January, 1996 with the exception of establishing turf, which will occur in the spring of 1996.

1.2 Material Description and treatment options: The following is a description of the residual materials found at the site and the anticipated treatment options to be used:

- o "Coal Tar Soil" is a non-hazardous mixture of soil and MGP residues. The mixture occurs as a result of the co-disposal of earthen materials such as spoil from gas line installations with tars, coke, ash, and construction debris. This "soil" is to be excavated and run through screening equipment. The screened

material will not exceed one inch topsize and has an energy content of about 3,200 BTU/lb. The resulting material is classified as a solid waste in New York State. Following screening, it will be loaded into NYS Part 364 permitted vehicles and shipped to New York State Electric and Gas Company's (NYSEG) Hickling Station coal-fired power plant located in East Corning, New York. Once there, it will be co-burned with bituminous coal in the utility's chain-grate stoker boiler, thus ensuring complete destruction and presenting a final remedy. As an alternative, should one be needed, the coal tar soils could be shipped to a facility located outside the state of New York, where it would be treated in a thermal desorber. The desorber would drive off the organic chemicals and pass them through an afterburner combustion chamber where they would be destroyed. The cleaned soil would then be used in one of a variety of ways, including the manufacture of asphalt, as road base, or as clean fill near the site of treatment. The consultant may recommend alternatives for offsite treatment not considered here. Any of these alternatives may be used as long as their use is in conformance with all local, state, and Federal regulatory requirements.

o "Pure Tar" is coal tar excavated from a known source located at the south end of "Area B" on the Beebee Park site (see attached plot plan, Figure 1.), and found in other discreet locations at the site. When the material is destined to be used as a raw material input to the tar refining industry, it is not regulated in New York State (see accompanying letter to Dick McCarthy of MarTec Systems from the NYS DEC, Attachment 1). It will be excavated and loaded into closed top, welded seam containers and shipped for liquification at 7&7, Inc., Wooster, Ohio, in NYS Part 364 permitted vehicles, as the referenced letter requires. It will then be sold to a tar refiner (Reilly Tar and Chemical, also located in the state of Ohio, or others) as a raw material. As an alternate, the material may also be prepared for shipment to a hazardous waste incinerator, in which case, it will be managed according to RCRA regulations

for hazardous waste. Yet another alternative involves the mixing of tar with other materials in a ninety-day RCRA storage container to render the material non-hazardous. Then, it may be shipped to NYSEG for thermal destruction in its permitted utility boiler at Hickling or Jennison Stations. The consultant may recommend alternatives for offsite treatment not included here. Any of those alternatives may be used as long as their use is in conformance with all applicable local, state, and Federal regulatory requirements.

- "Mixed soil and tar" product is as the name implies. It may be too concentrated with tar to be sent to NYSEG or a thermal desorber, but contain insufficient tar to be sent to 7&7 or Allied Signal. This material will be blended with additional soil, coal, or other material on the site in a 90-day RCRA storage container. The resultant mixture will then be shipped to NYSEG or the thermal desorber or other alternate facility to be managed as is the coal tar soil described above. In other cases, it may be possible to add more pure tar to bring the total concentration up high enough to ship the material to 7&7 or other alternate for the treatment and/or reuse of tar.

2.0 EXCAVATION

The contractor will excavate eight feet of coal tar containing soil from the top of the area within the "loop road" (see Figure 2.) and prepare it for shipment to NYSEG (or an alternative facility). If any source tars are visible or otherwise located within, below or adjacent to this eight foot horizon, they will be excavated and prepared for shipment to 7&7 or an alternative facility. Field reconnaissance, test pits, trenches, existing boring logs and perhaps additional Hydropunch™ or Geoprobe™ data will be used to establish the location of source tars beyond the eight foot horizon. All existing data have shown no source tars located below a depth of approximately twenty feet below grade. It is RG&E's intention to excavate to this depth where required, to remove source tars wherever evidence indicates significant tar accumulations (more that a few cubic yards) exist within the affected area. In

some areas, there is no indication that tars exist below a few feet. In this case, additional data will be collected (through trenching, test pits, and/or drilling) to confirm this finding.

Groundwater depth is approximately 22 feet below grade. Therefore, it is not expected to cause problems in excavations. Since RG&E controls the depth of the water in the river at this location through its Station 5 dam, no change in surface water elevation (and therefore, groundwater depth) is anticipated.

The porosity of the mixed overburden found at the site is extremely high. During the large excavation at this site in 1992, precipitation did not pool within the excavation. Therefore wastewater collection within the excavation is not anticipated. As a back-up, however, the contractor will stage RG&E's one thousand gallon plastic holding tank near the excavation so that decontamination rinse waters and precipitation collected in the excavation can be contained while awaiting analytical results for discharge to the County sewer system under RG&E's existing sewer use permit (which allows discharge of complying wastewaters from the coal tar clean-up project). As an alternate, the consultant may elect to stage a frac tank at the site for the collection of these wastewaters.

Excavations will not be shored, but the sides of the excavation will be no greater than one foot of rise for every one and a half feet of run. This slope was maintained during a large excavation at the site in 1992 and was found to be less than the angle of repose of the soil and permitted safe working conditions within the excavation. Should conditions in the current excavation prove different, the slope will be lessened as needed. In no event will it be allowed to increase.

It is possible that "tar fingers" will be encountered. If encountered, they will be excavated to their source or terminal point unless they are found to be completely healed (reached the consistency of hardened asphalt), in which case, a decision may be made to allow the remainder to stay in place. In all cases where tar fingers have been found at the site in the past, they were not healed and were removed.

2.1 Sediment and runoff control: Excavations may proceed as far as the river bank, as a means of "chasing a finger" of tar or otherwise. In that event, care will be taken to install a silt fence around affected areas to minimize the potential for transport of silt and sediment into the adjacent Genesee River. In addition, should it become necessary to excavate adjacent to the river to a depth near the surface water elevation, excavation will proceed toward the river at a depth greater than the lowest anticipated depth of excavation at the terminal end of the excavation near the river. In that way, any water in the excavation will drain away from the river toward the base of the excavation rather than toward the river. Every effort will be made to minimize the period of time during which the excavation near the river is left open. Backfilling and repair of the river bank in that section of the excavation will commence as soon as possible. If additional work is necessary to minimize the potential for sediment release to the surface water (such as installation of straw bale dikes and/or more silt fence, such action will be taken immediately upon making the determination that the action is prudent. The consultant is responsible for making this determination.

2.2 River bank repair: Excavations may reach the river bank, thus presenting the need to reestablish stream bank protection. Materials used to line the river bank will be similar in nature to that currently in place. In fact, efforts will be made to segregate and set aside these materials for replacement later. If additional material is required, it will meet the same specification or be more resistant to erosion than that currently in place.

3.0 MATERIAL HANDLING AND STORAGE

3.1 Material Handling: Soils will be excavated and temporarily staged adjacent to the excavation, but inside the affected area. This will necessitate moving the equipment from place to place to allow excavation of the entire affected area. Power screening equipment will be used to separate material below one inch from materials exceeding that size. It may be necessary to make more than one pass of materials through the equipment to thoroughly screen it. The rejected materials, made up primarily of rock, concrete, brick, stone and other building rubble (size exceeding one inch) will be sampled to determine whether it meets the

site specific clean-up level for material left in place below a depth of eight feet; i.e. 1% MGP components. If so, it will remain on site and serve as backfill in the excavation at depths greater than eight feet. It may be possible, after some site specific experience, to determine whether rejected materials tentatively meet the site specific clean-up level and can therefore be replaced in the excavations as backfill, based on visual/odor determinations but nevertheless, analytical screening techniques, including immunoassays, HNu, and PAH analysis by microscale solvent extraction (MSE), may be relied upon for confirmation purposes.

Stockpiles will be created for the material which passes through the screen and that which is rejected by the screen. These must be carefully identified and segregated since samples will be collected to confirm acceptability at the offsite treatment facility and as backfill, respectively. Rejected materials may also be crushed on site and used either as backfill (improving the construction quality of the fill) or added to soils destined for NYSEG or an alternate treatment facility. Having this option available on site may eliminate a potential problem if the rejected material does not meet backfill requirements. The consultant is responsible for making the determination as to whether this equipment and processing step is required.

Mixed soil and tar may require additional processing on site. This procedure is more fully described in the EEI Strategy Document (See Manufactured Gas Plant Remediation Strategy, by the Edison Electric Institute Manufactured Gas Plant Subcommittee, April, 1993. See also, April 26, 1993 letter from Sylvia K. Lowrance, Director of EPA's Office of Solid Waste to Regional Waste Management Directors in support of the EEI Strategy Document). The purpose of the processing is to create a mixture which is acceptable for treatment at NYSEG and in compliance with NYS DEC and Federal EPA regulations concerning the thermal treatment of solid wastes. Once the mixture is shown to satisfy NYSEG standards, it will be shipped as elsewhere described. It is recognized by RG&E that this mixing option only applies to materials which will be thermally treated in a utility boiler.

3.2 Storage: It is RG&E's intention that material processing be performed within the area to be excavated. In this way, chemical constituents of concern (polynuclear aromatic hydrocarbons or PAHs) will not be distributed to other parts of the site not otherwise affected. There is some chance, however, that delays in analytical turn-around or some other problem may require that an additional stockpile staging area be created. In this event, the former Beebee Station coal pile area will be used. Screened soil will be placed on the coal pile only if adequate space in the affected area is unavailable and only if analytical data are received from the lab indicating that the soil is non-hazardous. A polyethylene cover will be placed on top of the stockpile to prevent precipitation from contacting the processed soil and the base of the coal pile. The cover will be large enough to completely cover the soil stockpile. In this way, it will be unnecessary to collect and treat the storm water.

It is not anticipated that this system will fail, in terms of runoff and leachate generation and management. However, as a backup, the coal pile location proposed for this use is surrounded by a runoff collection trench. The trench collects runoff from the former coal pile storage area and transports wastewater to the power plant's waste water treatment system located on the property. The water would be treated and held pending receipt of analytical results and approval from the Monroe County Department of Pure Waters. If approval is received, the wastewater would be released via Beebee Station's combined sewer connection (for which an existing sewer use permit specifying coal tar treatment wastewaters is currently in place). In the event that approval for release into the combined sewer cannot be granted by Pure Waters, alternative arrangements will be made. Options include seeking approval from the NYSDEC for discharge via Beebee Station's SPDES outfall or approval from a commercial wastewater treatment facility.

At the completion of the project, the temporary cover will be removed in its entirety and discarded as solid waste in an approved landfill. Locally, High Acres landfill already has the requisite approval to accept for disposal, the discarded temporary liner and cover materials.

4.0 CLEAN-UP GOALS / OBJECTIVES

In this section are contained clean-up goals for the site. The goals take into consideration the types of residues remaining at the site as well as the depth at which these residues reside. The consultant may not alter the goals/objectives stated herein without specific approval of RG&E, the NYS DEC and the NYS Department of Health.

Both the anticipated land use and the surrounding environment have been taken into consideration for this clean-up. The anticipated future use of the site is industrial/ commercial/recreational. Therefore the clean-up goals/objectives should be protective of public health in that scenario. The site location, lying immediately adjacent to the Genesee River, indicates that the nearby aquatic environment should also be protected.

For residential sites, the clean-up goal requires prevention of direct contact exposures above the risk-based level combined with assuring adequate protection of groundwater quality through groundwater monitoring. This can be achieved through the installation of a barrier layer of clean soil of less than 10 ppm total PAH and proper installation of groundwater monitoring wells as more fully described in Section 4.3, below.

Concentrated wastes with more than one percent MGP components (ten thousand mg/kg) will be excavated to the water table, or a depth of eight feet or more if practicable. This is intended to prevent leachable components in concentrated residues from reaching and adversely impacting groundwater quality. As mentioned, both of these limits apply to a residential exposure scenario. No limit is recommended in the document for recreational exposure scenarios.

At depths greater than eight feet, historic sampling data show that the presence of source tars (easily defined visually) defines the areas where the amount of MGP components in the matrix exceed one percent of the mass. Excavations at the sides of the eight foot deep pit will end where confirmation sampling indicates that total PAH concentrations in the soil are at less than 1% MGP components

RG&E wishes to conduct its work at the site in a manner that will serve to prepare the land for use as recreational, industrial or commercial.

4.1 Description of property subject to remedy: There are two distinct areas of the property subject to this remedy. Figure 2 shows the "Station 2" parcel divided into essentially two areas. The first is located within the "loop road" found at the center of the parcel. The second consists of all areas outside the "loop road" on the parcel. These are addressed individually, below.

4.1.1 Area within "loop road": RG&E will remove all soil within the "loop road" to a depth of eight feet after removal and stockpiling for replacement of the clean, four inch thick layer of gravel that covers the area. Following removal of the eight foot thick layer, source tars located at depths below eight feet will be removed. To replace materials removed from depths greater than eight feet, RG&E will use some soils removed from the top eight feet of the area within the loop road that contain no visible tar and have less than 1% MGP components. Once the area is backfilled to the eight foot level, clean fill will be used to bring the area to near present grades, including the previously removed four inch cover layer. In no case will less than eight feet of cover (seven and a half feet of clean fill and six inches of top soil) be placed between MGP residuals remaining within the "loop road" and the ground surface. This will assure that the surface materials on this portion of the site contain concentrations of PAHs that are well below a risk based target for land to be used as recreational, industrial or commercial property.

It is possible that substantial amounts of source tars will be located at depths greater than eight feet resulting in the removal of significant volumes of material. In that event, RG&E will adhere to its plan to place a clean barrier layer of eight feet between MGP residues remaining at the site and the surface, but the site contours may change as a result. Figure 3 illustrates minimum contours, should significant amounts of material beyond the top eight feet be removed. Based on data available to RG&E at this time, RG&E does not anticipate that this will occur. If no significant amount of material below eight feet is removed, contours will remain as they presently exist. The likely final grades will be somewhere between the two extremes.

4.1.2 Area outside "loop road": Analytical data (Attachment 2) representative of the concentrations of organic chemicals in the surface soil show values typical of urban soils, but in order to be consistent with the site specific clean-up level, these data indicate the need to remove and/or cover areas outside the "loop road" to eliminate the direct contact pathway for casual, recreational visitors to the site. Therefore, a one foot thick layer of soil may be scraped from the surface and be replaced by clean gravel (containing less than 10 ppm total PAH) from a certified offsite borrow source. The one foot thick layer of soil may be used as backfill on the site at depths greater than eight feet or it may be processed and sent to NYSEG for thermal treatment once applicable analytical protocol have been met. The entire area outside the loop road disturbed by the work will be seeded in the spring.

As an alternative, rather than removing a one foot thick layer of soil, the area may be covered with a one foot thick layer of clean soil brought from a certified offsite borrow source. The decision to remove the soil and add cover versus simply adding cover may be made on site based on whether additional fill is required for the deeper excavations inside the "loop road". Another consideration is the final contours. Simply adding another one foot thick layer of soil to areas outside the "loop road" may be contrary to final grading plans, and as such, may support the removal of the soil. This is a decision to be made in the field by RG&E and its consultant with the concurrence of NYS DEC's project manager.

4.1.2.1 Area near laser control structure: Located to the east of the "loop road" area are two structures associated with the operation of the laser light show. Just to the west of the sound building is a well couplet installed in 1993 and identified as 102 S and D. While boring logs (see Attachment 3) for the deeper well in the set show slight staining from 13 to 15 feet and a slight odor was detected from 15 to 40 feet, there was no evidence of tar in either bore hole. Based on these data, this area will not be excavated unless a finger of pure tar is chased out from the main excavation area..

4.1.2.2 "Cliff Base Soils": Beyond RG&E's property line near the gorge wall lies the majority of a pile of dirt known as the "Cliff base soils". RG&E owns the property approaching, but not contacting the west gorge wall. The property line runs parallel to the face of buildings that are owned by the City and that are located at the top of the gorge wall (see Figure 2), but is located five feet away from the north building walls. A vertical line drawn from this point to the base of the gorge encompasses a large portion of the soil pile within the City's property. Because of the location of the property line, much of these soils belong to the City of Rochester. In 1992, RG&E and the City evaluated the removal of these materials at the request of the City's Architect. A geotechnical evaluation of the condition of the west gorge wall was also performed by H&A of New York, a hydrogeological consulting firm. The consultant concluded that removing the soils would exacerbate the rate of sloughing and undercutting of the shale on the gorge wall. In addition, during RG&E's 1992 site work, small pieces of shale and/or cut block were occasionally observed falling from the face of the gorge wall. Any access to the area for recreational or work purposes would therefore be physically hazardous.

Analytical data on these soils were collected by the City of Rochester and are found as Attachment 4 to this document. The effort undertaken by the City and represented by the data was to determine if any hazardous wastes were present in the cliff base soils. As the data indicate, the pile contains no hazardous wastes. For this and other reasons outlined above, RG&E does not believe any action is warranted with respect to the "cliff base soils" in this remedial action. The portion of the "cliff base soils" that are located on RG&E property

are included in the portion of the parcel for which RG&E will seek release from the NYSDEC in its voluntary agreement. These areas will receive the one foot of cover material proposed for all areas outside the "loop road".

4.1.2.3 Area A: A removal action was conducted at the site in 1992. During that project, approximately 9,000 tons of soil containing MGP components were removed. Of that 9,000 tons, about 4,100 were shipped offsite to facilities in Virginia and North Carolina for treatment in either a thermal desorber or in a cement kiln. Another 2,000 tons were shipped to NYSEG's Hickling Station where it was thermally treated in a test burn at that plant. The balance of the soil was placed on top of the area now being remediated. The excavation in "Area A" progressed as far to the east as the existing "loop road". Confirmation samples were collected from the bottom and sides of that excavation and are included as Attachment 5. These data indicate areas where tar residues remained. These data will be used to establish the western extreme of the excavations planned in this project. In practice, should tar be located, excavations will proceed as far to the west as necessary to remove it. At some point, because "Area A" was completely backfilled with clean soil brought from an offsite borrow source, however, there will be obvious visible evidence of the change in subsurface conditions and this will serve to tentatively delimit the current excavation to the west.

4.2 Documentation of remedial areas: Given the remedial plan earlier described, careful documentation will be prepared delineating the areas of the site where eight feet or more of clean cover material exists and those areas where only a foot of clean cover material exists. This will be in the form of a property map stamped by a NYS Certified Public Land Surveyor depicting these as-built conditions. This property map will form the basis of a restriction on development of the site placed in the property deed following the conclusion of the remedial action.

The site management goal is to assure that the potential for industrial/commercial/ park visitors to come in contact with the chemical compounds associated with the former MGP site

is near zero. At some time in the future, some minor construction work could occur on the "loop road" portion of the site, although it is not currently anticipated. That work might involve excavations to a depth of four to five feet (e.g. footers for small buildings, utility installations). The eight foot thick layer of clean fill between the surface and the remaining residuals will prevent site construction workers from coming into direct contact with these residuals. The restriction in the property deed will prevent excavations on the property in areas where only a one foot thick clean cover layer exists, and below eight feet where excavations reached that depth, or will require adequate health and safety precautions to be taken and NYS DEC approval if such excavations are to take place. In addition, a final report will be prepared that incorporates all investigation and remedial information collected for the site to date.

4.2.1 Verification Sampling: Following excavations and before replacement of clean fill from certified offsite sources, verification samples will be collected to document the concentration of organic compounds remaining in exposed areas. These data will be retained and included in the final site report. They will serve as documentation of the conditions at the site at the interface between soils allowed to remain at the site and soils brought to the site and placed as final cover. These verification samples will be collected such that one sample is taken to represent a grid measuring fifty by fifty feet. Analyses will be limited to organic compounds (PAH and benzene). Verification sampling along the sidewalls of the excavation will occur every fifty feet at the midpoint of the sidewall.

4.3 Groundwater: There is no consumptive or other use of groundwater on the site. Removal of all source tars that can be located using the techniques mentioned previously will further minimize the slight potential of the MGP components to leach organic components into groundwater, thus preserving the quality of the adjacent surface waters. The existing groundwater monitoring system will be supplemented to determine whether clean-up goals are achieved. Following remediation of the site, RG&E will install one additional groundwater well at the top of the river bank, midway between the Platt Street bridge and the existing well couplet No. 102 D/S. RG&E will continue to monitor for an additional two years, the new

well and the existing wells on a quarterly basis as it has since the existing wells were installed in June of 1994.

The groundwater data collected from the five existing wells since they were installed at the site are incorporated into this plan by reference. A summary of those data is found below.

Analytical data for West Station Wells (TCL Volatiles by 8240) in ug/l[1]

WELL No.	6/94	9/94	12/94	3/95	6/95
101S	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]
101D	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]
102S	BDL[2]	BDL[2]	BDL[2]	BDL[2]	BDL[2]
102D	acetone - 31	BDL[2]	BDL[2]	benzene - 22	BDL[2]
	4-methyl, 2-pentanone - 13	–	–	toluene - 7	–
	toluene - 3	–	–	ethyl-benzene - 12	–
	–	–	–	m,p xylene 11	–
103	methylene chloride - 4	BDL[2]	BDL[2]	BDL[2]	BDL[2]
	acetone - 23	–	–	–	–
	toluene - 3	–	–	–	–

[1] Unless otherwise stated, all results were below limit of detection for the method employed.
[2] Below detection limits - detection limits at 3 to 10 ppb.

Analytical data for West Station Wells (BN/AE by EPA Method 625) in ug/l[1]

WELL No.	6/94	9/94	12/94	3/95	6/95
101S	bis (2-ethylhexyl)-phthalate - 5	BDL[2]	bis (2-ethylhexyl)-phthalate - 23	BDL[2]	bis (2-ethylhexyl)-phthalate - 7
101D	bis (2-ethylhexyl)-phthalate - 7	bis (2-ethylhexyl)-phthalate - 6	bis (2-ethylhexyl)-phthalate - 5	bis (2-ethylhexyl)-phthalate - 7	bis (2-ethylhexyl)-phthalate - 13
	—	—	—	butylbenzyl-phthalate - 15	—
102S	BDL[2]	BDL[2]	bis (2-ethylhexyl)-phthalate - 8	bis (2-ethylhexyl)-phthalate - 19	BDL[2]
102D	bis (2-ethylhexyl)-phthalate - 7	bis (2-ethylhexyl)-phthalate - 6	bis (2-ethylhexyl)-phthalate - 9	bis (2-ethylhexyl)-phthalate - 11	bis (2-ethylhexyl)-phthalate - 5
	—	—	—	naphthalene -11	—
103	dimethyl-phthalate - 11	bis (2-ethylhexyl)-phthalate - 5	bis (2-ethylhexyl)-phthalate - 17	BDL[2]	bis (2-ethylhexyl)-phthalate - 26
	—	di-n-butylphthalate 6	—	—	

[1] Unless otherwise stated, all results were below limit of detection for the method employed.
[2] detection limits for base neutrals are 5 to 10 ug/l; for acid extractables, detection limits are 5 to 50 ug/l.

In addition to the groundwater information presented in the two tables above, RG&E collected another groundwater sample from a Geoprobe™ installation in October, 1995. The Geoprobe™ was inserted midway between the Platt Street bridge and the ramp leading down to the river near well couplet 102 S/D. Water samples were collected and analyzed, first by preparing the samples in a TCLP extractor (through the teflon filter) for the same parameters as were all other samples from the on-site wells. Results (found in Attachment 6) show no parameters present in excess of the method detection limit (which are the same as those shown on the tables above). Taken as a whole, with non-recurring (and unexplained)

exceptions in well 102D, there is minimal groundwater impact from tar residues at the site.

5.0 SAMPLING AND ANALYSIS

Sampling and analyses must be conducted to show the following:

a. that soils intended to go to NYSEG or the alternate treatment facility meet that treatment facility's requirements (analytical requirements specified by the respective facilities and approved by the respective responsible agencies);

b. that "pure tar" intended to go to 7&7 or the alternate treatment or recycling facility meet its requirements (analytical requirements specified by the respective facilities and approved by the respective responsible agencies);

c. that health and safety goals during and after project construction are met;

d. that wastewaters collected during the project meet discharge requirements of respective agencies;

e. that fill brought to the site meets both RG&E criteria for contaminant concentrations of less than 10 ppm total PAHs, the NYS DEC's criteria for risk-based clean-up standards and the City of Rochester's requirements for clean backfill; and

f. The organic constituent concentrations in the soils which are allowed to remain following excavations and prior to placement of clean fill.

Items a through d and f require sampling and analyses. Item e can be achieved through a combination of certifications from the fill supplier and sampling and analysis. RG&E may use spoil taken from gas line installations, and currently staged at its Brooks Avenue facility, if that spoil can be shown, through analytical results, to meet the listed requirements. Also, the City of Rochester is conducting a project on the island in the river adjacent to the affected area. That project required the installation of roadways on the island. Those roadways must be removed. The City wishes to eliminate the cost of offsite transportation and disposal of that material. It is made up of light rip-rap and stone fill. There are approximately three to four hundred cubic yards of the material. Its specifications are:

90 - 100% lighter than one hundred pounds

50 - 100% larger than six inches

0 - 10% smaller than one half inch

This material would be ideal for use in restabilizing the river bank should it become necessary to excavate "tar fingers" that may extend toward the river. It will also improve the appearance of the river bank as a whole by virtue of its consistent nature. As an alternate, it may be used simply as additional fill in the excavation. RG&E does not envision the need to sample and analyze this material for conformance to any organic component quality standard since it was secured from a DOT certified borrow source to conform to the City's specification.

6.0 HEALTH AND SAFETY PLANS

The site specific Health and Safety Plan ("HASP") has been developed by the consultant. The construction contractor must conform to this plan. The consultant's HASP meets all requirements and guidance of the applicable State and Federal agencies. Copies of the site specific HASP developed by the consultant will govern work as if the site were a hazardous waste remediation job. Copies of the HASP have been made available to the Monroe County Department of Health and the NYS DEC. The plan is consistent with past plans for similar work performed at this site and already approved by both agencies.

The site specific HASP also contains the specific information on air sampling in the work zones, at the perimeter of the work zones and at the perimeter of the site (Pont De Rennes Bridge and the Brown's Race area) for organics and particulates, along with contingency plans in the event of an excursion above any action level. Action levels are the same as previously employed (in 1992 and in 1994 during RG&E's excavation and test burn under a NYS Part 360 RD&D permit) at the site and approved by the Monroe County Department of Health and the NYS DEC.

The requirements of a hazardous waste contingency plan are included in the event hazardous wastes are encountered in the excavation, and any agencies that are expected to act as first

responders in the event of a fire or other emergency have been provided an advanced copy for their reference.

7.0 SAMPLING AND ANALYSIS PLANS

All sampling and analyses are described in the site specific sampling and analysis plan ("SAP"), developed by the consultant. That plan contains a table or series of tables describing each sample type; number of samples to be collected; number to be analyzed; number to be archived for later analysis, if needed; analytes; identities of labs performing analyses; number of blind duplicates/spikes to be added in addition to the laboratories' normal quality control practices; etc. The plan also includes a description of the manner in which each type of data is to be used.

8.0 COMMUNITY OUTREACH PROGRAM

Rochester Gas and Electric Corporation has met with success in its community outreach efforts during investigation and Phase 1 remediation of the West Station site as well as in the test burn program conducted in 1994. This success was due in part to the comprehensive community outreach program developed and administered by the Company and the Rochester Center for Environmental Information (CEI). Due to certain internal developments at CEI, they are unable to assist with similar efforts at this time. RG&E has arranged for CEI's Community Outreach Project Manager to act as an independent consultant to again fulfill that role in this project.

According to its proposal, the community outreach consultant will pattern the effort after the work performed for the Phase 1 remediation and the test burn. A copy of the proposal (Attachment 7) is appended as a means of describing the planned efforts and will form the basis of the formal community outreach program.

In addition to the services provided directly by the community outreach consultant, a fund is

to be established through the consultant, to absorb the costs of independent experts. These may include, as in the past, a mammalian toxicologist, ecotoxicologist, and risk communications consultant. A hydrogeologist may also be selected should interest develop in this area. RG&E has no control over the people selected to fulfill the roles. They are chosen by a consensus of the members on the communications advisory committee, a group of people representing diverse interests in the City of Rochester, the Genesee River, the neighborhood, and environmental activist groups. These independent experts have traditionally been chosen from local academic circles (the University of Rochester School of Medicine and Cornell University). They may serve as independent third party reviewers and interpreters of data and information available from RG&E, regulatory agencies, and other sources. The principal reason for this portion of the effort is to develop a set of facts concerning the project and the site which are understandable by the general community, thereby allowing it to make informed decisions, responses, reactions and recommendations to RG&E and the regulatory agencies about the project.

9.0 PROJECT DURATION AND APPROXIMATE SCHEDULE

The contract requires that the project run from October, 1995 through January, 1996, with turf establishment in the spring of 1996. Weather and other events could cause delays. The approximate project schedule is as follows:

October 16-20 Mobilization and set-up, secure alternate treatment facilities

October 23 Begin excavation and material processing

October 30 - December 31 Continue excavation, material processing and perform loadout of residuals to NYSEG and 7&7 or alternates. Backfilling may also begin at this time.

December 31 - January 21 Complete placement of all backfill; bring site to new final grade and establish contours.

January 22 - 31 Decontaminate and demobilize. All equipment and materials off-site.

April - May, 1996 Establish turf.

The schedule may change slightly based on the planning of the consulting engineer and delays caused by weather and unforeseen circumstances.

ATTACHMENT 1

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233-

Michael D. Zagata
Commissioner

MAY 26 1995

Mr. Richard J. McCarthy
Manager of Marketing
Martec Systems, Inc.
528 North New Street
Bethlehem, PA 18018

Dear Mr. McCarthy:

This is in response to your May 8, 1995 letter in which you requested our concurrence with your regulatory analysis of the processing and recycling of Manufactured Gas Plants (MGP) coal tar material into the tar refining industry, using the 7-7, Inc., Coal Tar Liquification Technology. We are assuming that the processing is going to take place at the 7-7, Inc., facility located at the East Liverpool, Ohio Marine Terminal. (Note: An on-site mobile unit or centralized, off-site facility in the State of New York would involve different requirements.)

Based on the information you provided, we have determined the aforementioned process to be a reclamation process and, therefore, listed hazardous wastes would still be regulated if shipped to the Ohio facility.

However, the MGP coal tar material will meet our definition of a by-product if the coal tar accounts for at least 50% of the weight and volume, relative to soil, debris, etc. According to 6NYCRR 371.1 (c)(4)(iii), in conjunction with Table 1, by-products exhibiting a hazardous waste characteristic, undergoing a process of reclamation, are excluded from being considered solid wastes. Therefore, coal tar from MGP sites that only exhibits a characteristic of hazardous waste (usually the Toxicity Characteristic for benzene), when intended for reclamation, will be excluded from being considered solid waste for the purposes of the hazardous waste program.

As the conditions (characteristic only, above 50% coal tar) are site-specific, they must be met by the actual generator of the coal tar material who should approach the Department on a site-specific basis. In addition, its transportation by vehicle in the State of New York might still require Part 364 permitted waste transporters. Ms. Margaret Kelly, Supervisor of the Waste Transporter Section (518-457-3254) should be contacted for information on this issue.

Should you have any questions on this letter, please contact Mr. Carlos A. Mancilla, of my staff, at (518) 485-8988.

Sincerely,

Lawrence J. Nadler

Lawrence J. Nadler, P.E.
Chief
Hazardous Waste Compliance Unit
Division of Hazardous Substances
Regulation

cc: w/inc. - J. Cianci - DRA
J. Schmitt - DSW
J. Harrington - DHWR
M. Kelly - DRA

ATTACHMENT 2

Samples depicted by these results are:

Brooks Avenue - composite samples collected from the spoil pile. These soils are to be used,if needed, as fill in the excavations below a depth of eight feet.

West Sta. - discreet grab samples from various locations outside "loop road" at Beebee Station collected to determine surface concentrations of organic compounds to assist in determining whether clean cover material should be applied over soil located outside the "loop road". A map showing the locations from which the samples were collected is also enclosed.

META Environmental, Inc.

49 Clarendon Street
Watertown, MA 02172
TEL: (617) 923-4662
FAX: (617) 923-4610

October 17, 1995

Kevin Hylton
Rochester Gas and Electric Corp.
89 East Ave.
Rochester, NY 14648-0001

Dear Kevin:

Enclosed is a hard copy of the MAH/PAH and metals results for the Brook Ave. samples received 09/14/95. If you have any questions, please do not hesitate to call me.

Sincerely,

Scott A. Hurd

Scott A. Hurd
Project Manager

Enclosure

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for RG&E Samples, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG950914-01 Brooks Ave-1	RG950914-02 Brooks Ave-2	RG950914-03 Brooks Ave-3
MAHs:			
Benzene	0.14 U	0.15 U	0.15 U
Toluene	0.20 J	0.20 J	0.19 J
Ethylbenzene	0.14 U	0.15 U	0.15 U
m/p-Xylene	0.14 U	0.15 U	0.15 U
Styrene	0.14 U	0.15 U	0.15 U
o-Xylene	0.14 U	0.15 U	0.15 U
1,2,4-Trimethylbenzene	0.14 U	0.15 U	0.15 U
Total MAHs:	**0.20 J**	**0.20**	**0.19 J**
PAHs:			
Naphthalene	0.14 U	0.15 U	0.15 U
2-Methylnaphthalene	0.14 U	0.15 U	0.15 U
1-Methylnaphthalene	0.14 U	0.15 U	0.15 U
Acenaphthylene	0.14 U	0.15 U	0.15 U
Acenaphthene	0.14 U	0.17	0.15 U
Dibenzofuran	0.14 U	0.15 U	0.15 U
Fluorene	0.14 U	0.15 U	0.15 U
Phenanthrene	0.14 U	1.64	0.15 U
Anthracene	0.14 U	0.39	0.15 U
Fluoranthene	0.14 U	4.08	0.15 U
Pyrene	0.14 U	2.94	0.15 U
Benz(a)anthracene	0.14 U	1.90	0.15 U
Chrysene	0.14 U	2.55	0.16 J
Benzo(b)fluoranthene	0.14 U	1.84	0.15 U
Benzo(k)fluoranthene	0.14 U	1.94	0.15 U
Benzo(a)pyrene	0.43 J	2.48	0.55 J
Indeno(1,2,3-cd)pyrene	0.14 U	1.64	0.15 U
Dibenz(a,h)anthracene	0.14 U	0.42	0.15 U
Benzo(g,h,i)perylene	0.14 U	1.65	0.15 U
Total PAHs:	**0.43 J**	**24**	**0.70 J**
Surrogate #1 %Recovery	89	106	77
Surrogate #2 %Recovery	106	110	92

U = Not detected at quantitation limit shown

J = No pattern is present, so ID is tentative.

ND = Not detected

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

MFTA

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for RG&E Samples, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG950914-04 Brooks Ave-4	RG950914-05 West Sta.-1	RG950914-06 West Sta.-2
MAHs:			
Benzene	0.12 U	0.18 U	0.12 U
Toluene	0.57 J	0.28 J	0.47 J
Ethylbenzene	0.12 U	0.18 U	0.12 U
m/p-Xylene	0.12 U	0.18 U	0.12 U
Styrene	0.12 U	0.18 U	0.12 U
o-Xylene	0.12 U	0.18 U	0.12 U
1,2,4-Trimethylbenzene	0.12 U	0.18 U	0.12 U
Total MAHs:	**0.57 J**	**0.28 J**	**0.47 J**
PAHs:			
Naphthalene	0.13	0.20	0.19
2-Methylnaphthalene	0.12 U	0.18 U	0.16
1-Methylnaphthalene	0.12 U	0.18 U	0.13
Acenaphthylene	0.20	0.19	0.31
Acenaphthene	0.52	0.21	0.30
Dibenzofuran	0.12 U	0.18 U	0.12 U
Fluorene	0.16	0.18 U	0.12 U
Phenanthrene	3.80	0.75	1.23
Anthracene	0.44	0.20	0.37
Fluoranthene	6.38	1.31	2.65
Pyrene	4.87	1.06	2.29
Benz(a)anthracene	2.21	0.76	1.95
Chrysene	3.55	1.04	2.28
Benzo(b)fluoranthene	2.53	0.61	1.66
Benzo(k)fluoranthene	2.54	0.70	1.89
Benzo(a)pyrene	2.49	3.54	2.78
Indeno(1,2,3-cd)pyrene	2.10	0.50	1.47
Dibenz(a,h)anthracene	0.51	0.18 U	0.45
Benzo(g,h,i)perylene	2.00	1.58	1.64
Total PAHs:	**34.4**	**12.6**	**21.8**
Surrogate #1 %Recovery	116	106	109
Surrogate #2 %Recovery	117	124	121

U = Not detected at quantitation limit shown

J = No pattern is present, so ID is tentative.

ND = Not detected

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for RG&E Samples, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG950914-07 West Sta.-3	RG950914-08 West Sta.-4	RG950914-09 West Sta.-5
MAHs:			
Benzene	0.23 U	0.15 U	0.15 U
Toluene	0.30 J	0.59 J	0.34 J
Ethylbenzene	0.23 U	0.15 U	0.15 U
m/p-Xylene	0.23 U	0.15 U	0.15 U
Styrene	0.23 U	0.15 U	0.15 U
o-Xylene	0.23 U	0.15 U	0.15 U
1,2,4-Trimethylbenzene	0.23 U	0.15 U	0.15 U
Total MAHs:	0.30 J	0.59 J	0.34 J
PAHs:			
Naphthalene	0.23 U	0.15 U	0.15
2-Methylnaphthalene	0.23 U	0.15 U	0.15 U
1-Methylnaphthalene	0.23 U	0.15 U	0.15 U
Acenaphthylene	0.23 U	0.18	0.15 U
Acenaphthene	0.23 U	0.19	0.15
Dibenzofuran	0.23 U	0.15 U	0.15 U
Fluorene	0.23 U	0.15 U	0.15 U
Phenanthrene	1.25	1.42	0.82
Anthracene	0.23 U	0.25	0.15 U
Fluoranthene	1.60	2.58	1.09
Pyrene	1.76	2.47	1.22
Benz(a)anthracene	0.80	1.66	0.46
Chrysene	1.57	2.70	1.26
Benzo(b)fluoranthene	0.74	1.38	0.47
Benzo(k)fluoranthene	0.80	1.53	0.48
Benzo(a)pyrene	7.34	8.00	3.37
Indeno(1,2,3-cd)pyrene	0.60	0.93	0.34
Dibenz(a,h)anthracene	0.23 U	0.25	0.15 U
Benzo(g,h,i)perylene	2.03	2.58	1.16
Total PAHs:	18.5	26.1	11.0
Surrogate #1 %Recovery	96	110	89
Surrogate #2 %Recovery	101	102	107

U = Not detected at quantitation limit shown

J = No pattern is present, so ID is tentative.

ND = Not detected

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

MFTA

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for RG&E Samples, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG950914-10 West Sta.-6	RG950919-M8 Soil MethBlk
MAHs:		
Benzene	0.14 U	0.13 U
Toluene	0.14 U	0.13 U
Ethylbenzene	0.14 U	0.13 U
m/p-Xylene	0.14 U	0.13 U
Styrene	0.14 U	0.13 U
o-Xylene	0.19	0.13 U
1,2,4-Trimethylbenzene	0.14 U	0.13 U
Total MAHs:	**0.19**	**ND**
PAHs:		
Naphthalene	0.45	0.13 U
2-Methylnaphthalene	0.38	0.13 U
1-Methylnaphthalene	0.29	0.13 U
Acenaphthylene	0.31	0.13 U
Acenaphthene	0.44	0.13 U
Dibenzofuran	0.22	0.13 U
Fluorene	0.40	0.13 U
Phenanthrene	4.60	0.13 U
Anthracene	0.44	0.13 U
Fluoranthene	5.22	0.13 U
Pyrene	5.20	0.13 U
Benz(a)anthracene	2.33	0.13 U
Chrysene	3.79	0.13 U
Benzo(b)fluoranthene	2.00	0.13 U
Benzo(k)fluoranthene	2.08	0.13 U
Benzo(a)pyrene	8.62	0.13 U
Indeno(1,2,3-cd)pyrene	1.60	0.13 U
Dibenz(a,h)anthracene	0.38	0.13 U
Benzo(g,h,i)perylene	3.31	0.13 U
Total PAHs:	**41.8**	**ND**
Surrogate #1 %Recovery	90	86
Surrogate #2 %Recovery	107	100

U = Not detected at quantitation limit shown

J = No pattern is present, so ID is tentative.

ND = Not detected

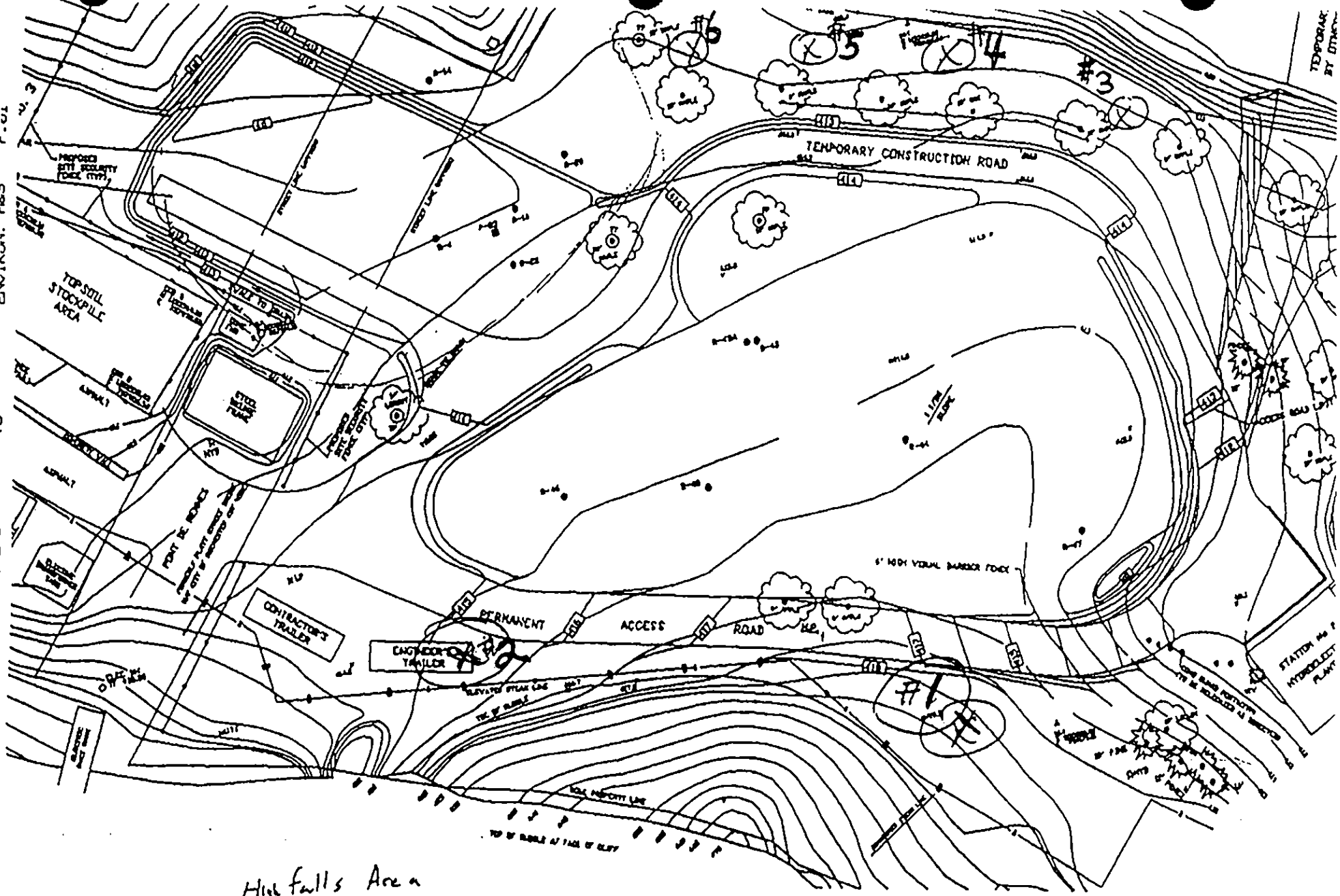
Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

META

RG&E Metals Results for Brooks Ave. Soil Samples, in ppm (mg/kg)

Lab ID / Field ID	RG950914-01 Brooks Ave-1		RG950914-02 Brooks Ave-2		RG950914-03 Brooks Ave-3		RG950914-04 Brooks Ave-4	
Arsenic (As)	22	U	22	U	22	U	22	U
Barium (Ba)	35		33		14		21	
Cadmium (Cd)	1.1	U	1.7		1.3		1.6	
Chromium (Cr)	7.5		9.0		6.1		6.9	
Lead (Pb)	24		22	U	22	U	31	
Mercury (Hg)	0.11	U	0.22		0.11	U	0.77	
Selenium (Se)	45	U	44	U	44	U	44	U
Silver (Ag)	2.2	U	2.2	U	2.2	U	2.2	U



High falls Area

Soil Boring Samples

J. Prill

Post-it™ Fax Note 7671	Date 10-23-95	# of pages ▶ 1
To Kevin Hylton	From J. Prill	
Co./Dept.	Co.	
Phone #	Phone #	
Fax #	Fax #	

ATTACHMENT 3

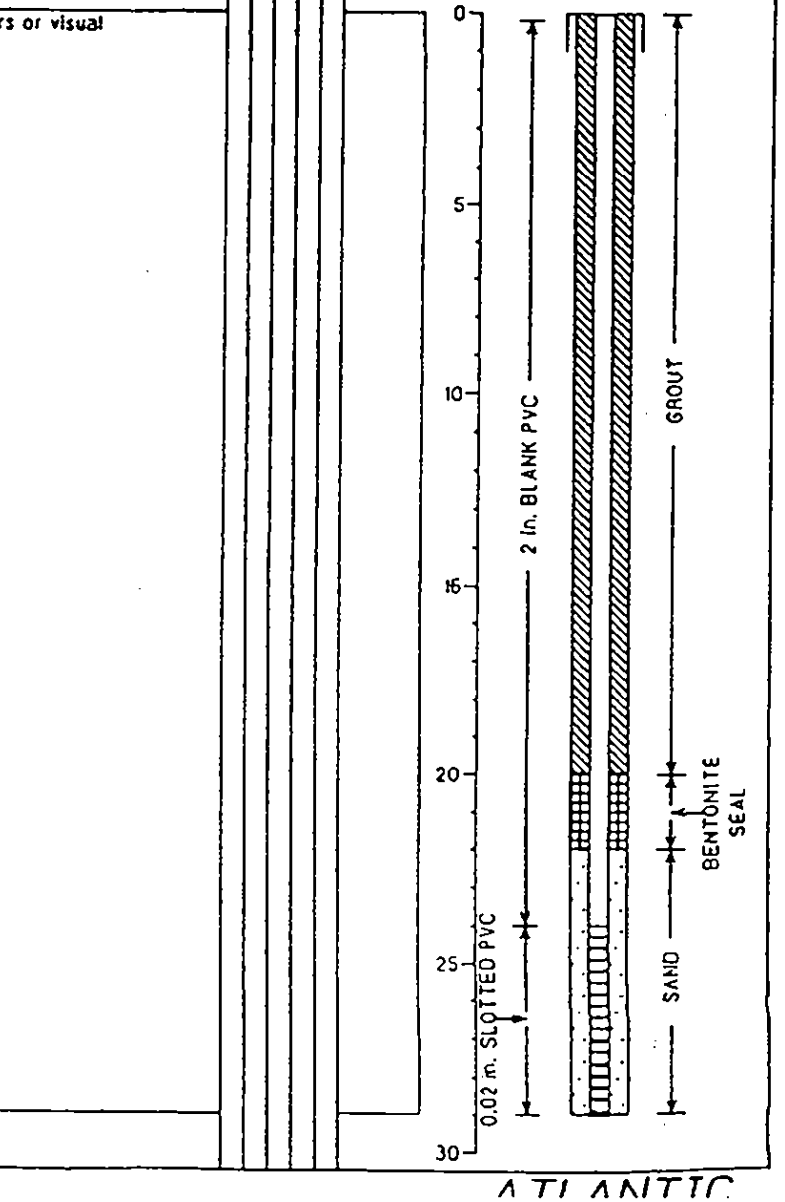
WELL MW-101S

Page 1 of 1

ROJECT: RISE
ROJECT NO: 1734-05-09
CATION: N/A
ATE STARTED: 8-11-93
ATE COMPLETED: 8-11-93
RILLING CONTRACTOR: NORTH STAR DRILLING
RILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)	WELL CONSTRUCTION
				Augered to 29 feet; no odors or visual contam. in spoils							0	
											5	
											10	
											15	
											20	
											25	
				End of boring at 28.0 feet.							30	



ATLANTIC

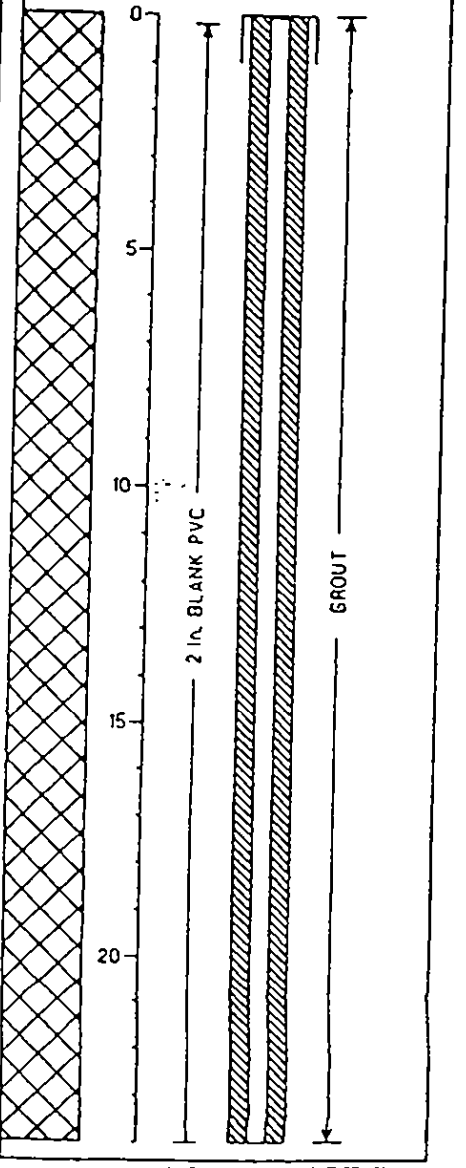
WELL MW-101D

PROJECT: RGGE
PROJECT NO: 1734-05-09
LOCATION: UPGRADE OF "AREA B"
DATE STARTED: 8-8-93
DATE COMPLETED: 8-8-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: BOB RUSSO

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL admixture, moisture, other notes, ORIGIN
0-2	20,42 29,18	85	0	Dark gray silty SAND with cobbles and pebbles, trace coal, trace brick, no odor, FILL
2-4	7,9 8,7	50	0	
4-6	8,5 8,14	70	0	Becomes moist
6-8	11,7 4,5	65	0	Brown SILT with little clay, little sand, trace brick, moist, no odor, FILL
8-10	3,3 4,6	70	0	Brown with gray mottling, silty CLAY with little sand, moist, no odor, no sheen, FILL
10-12	5,18 12,20	85	0	Dark brown very fine SAND, trace slag, moist, no odor, FILL Cobble-sized coke fragment
12-14	14,10 11,8	75	0	Brown, fine SAND, little coke, little slag, little pebbles, moist, no odor, no sheen, FILL
14-16	3,3 8,8	55	0	
16-18	3,3 6,4	6	0	Angular COBBLES and PEBBLES, little sand, moist, no odor, FILL
18-20	12,12 14,20	65	0	Trace clay
20-22	12,20 19,10	70	0	
22-24	18,18 12,18	60	0	

VISUAL CONTAM. (NONE / STAIN / SHEEN / HEAVY) — SAMPLE ANALYSIS — LITHOLOGY — DEPTH (FT.) — WELL CONSTRUCTION



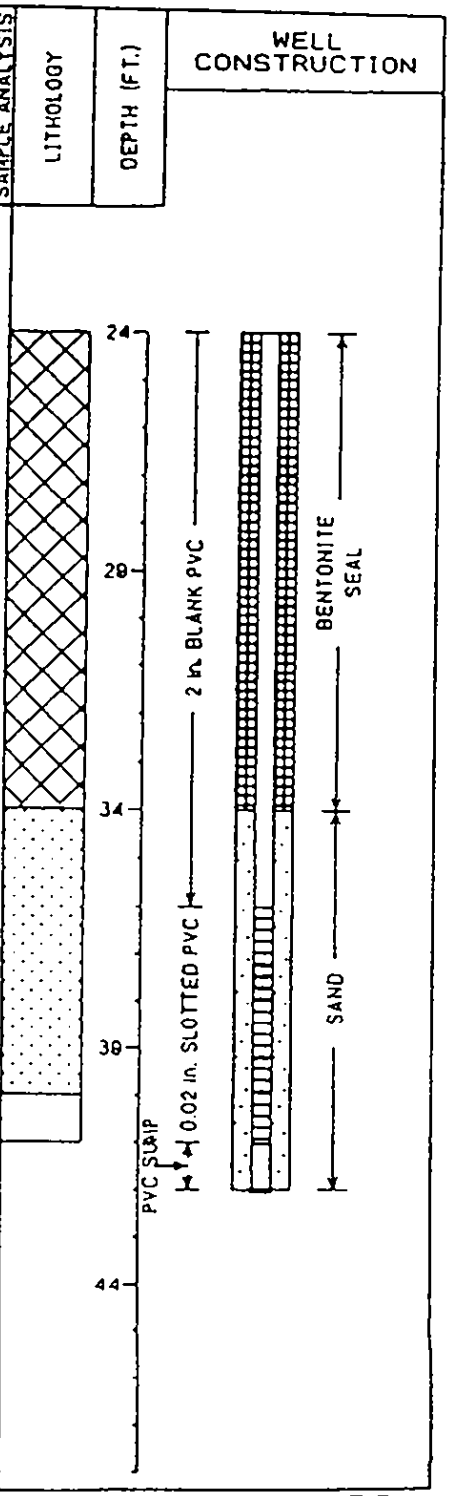
ATLANTIC

WELL MW-101D

PROJECT: RGGE
PROJECT NO: 1734-05-09
LOCATION: UPGRADE OF "AREA B"
DATE STARTED: 8-8-93
DATE COMPLETED: 8-8-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: BOB RUSSO

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM.: NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS
24-26	23,20 17,14	80	1	Angular COBBLES and PEBBLES, little gray clay, trace sand, trace silt, no odor, no sheen, FILL					
				Becomes wet					
26-28	8,12 17,14	75	0						
28-30	7,14 17,24	80	0	COBBLES and PEBBLES, little sand, wet, no odor, no sheen, FILL					
				Compact COBBLES and PEBBLES, some sand, little clay, trace silt, wet, no odor, no sheen					
30-32	15,16 20,18	66	0						
32-34	14,34 15,14	5	0						
34-36	12,18 32,20	45	0	Dark gray coarse SAND with pebbles, wet, slight petroleum odor					
38-38	15,50/0.3"	5	0						
40	10,18 50/0.4"	40	0						
40-41	28,50/0.6"	10	0	SHALE FRAGMENTS, trace sand, wet, petroleum odor					
				Auger refusal; roller bit to 42 feet					
				End of boring at 42.0 feet.					



ATLANTIC

WELL MW-102S

PROJECT: ROSE
PROJECT NO: 1734-06-09
LOCATION: N/A
DATE STARTED: 8-11-93
DATE COMPLETED: 8-11-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM.: NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)	WELL CONSTRUCTION
				Augered to 18 feet; no odors or visual contam. in spoils							0	
				End of boring at 16.0 feet.							6	2 in. BLANK PVC
											10	0.02 in. SLOTTED PVC
											16	GROUT, BENTONITE SEAL, SAND

ATLANTIC

WELL MW-102D

PROJECT: RGGE
PROJECT NO: 1734-06-08
LOCATION: N/A
DATE STARTED: 8-10-93
DATE COMPLETED: 8-10-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS
0-2	10,14 70/0.4'	45	0	Light brown PEBBLE to COBBLE, some fine to medium sand, trace brick, trace coal, dry, no odors, FILL					
				Augered to 3' through rock/cobble fill					
3-5	3,2 1,9	40	0	Light brown fine to medium SAND, some pebble to gravel, FILL					
5-7	30,23 9,14	46	0	Brown COBBLE to PEBBLE, some fine to coarse sand, trace coal, trace brick, dry, no odor, FILL					
7-9	12,8 8,10	50	0						
9-11	12,10 10,12	85	0	Gray COBBLE, trace sand, FILL Light brown to tan fine to coarse SAND, some pebble to gravel, trace silt, trace coal, dry, no odor, FILL					
11-13	8,8 7,8	60	0	Brown PEBBLE to COBBLE, some fine to medium sand, little brick, little silt, trace concrete, FILL					
13-15	9,12 15,18	70	3	Some spotty staining, slight tar/petroleum odor, FILL Becomes saturated					
15-17	5,8 10,15	35	3	No staining					
17-19	10,18 12,8	85	0.5	Black COAL and ASH, little pebble, trace shell, wet, slight odor, FILL					
19-21	18,17 12,17	SS	0	Black COBBLES, little ash, little clay, trace coal, wet, no stain, no sheen, slight odor, FILL					
21-23	12,12 11,12	70	0	Black SILT, some fine to medium sand, FILL Black GRAVEL to COBBLE, little fine to medium sand, little silt, trace coal, wet, slight odor, FILL					
25-25	8,10 11,10	46	0	Black ASH, some gravel, little fine to medium sand, little silt, wet, slight odor, FILL					
25-27	5,8 8,8	70	0	Brown-black fine to coarse SAND, some pebble to cobble, little silt, little ash, trace brick, wet, v. slight odor, FILL					

LITHOLOGY

DEPTH (FT.): 0, 5, 10, 15, 20, 25

WELL CONSTRUCTION: 2 in. BLANK PVC; GROUT

ATLANTIC

WELL MW-102D

PROJECT: ROSE
PROJECT NO: 1734-05-09
LOCATION: N/A
DATE STARTED: 8-10-93
DATE COMPLETED: 8-10-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. (NONE / STAIN / SHEEN / HEAVY)	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)	WELL CONSTRUCTION
27-29	8,10 9,8	80	0	Gray-black well-rounded GRAVEL, some fine to medium sand, wet, v. slight odor, FILL				27	
29-31	14,22 22,22	35	0	Dark gray PEBBLE to COBBLES, little fine sand, trace silt, trace brick, wet, slight odor, FILL					
31-33	14,16 26,27	60	0	Gray GRAVEL, little fine to coarse sand, trace clay, wet, v. slight odor				32	
33-35	17,12 16,23	30	0						
35-37	48,38 28,31	50	0	Dark brown COBBLES, little fine to medium sand, little gravel, trace clay, wet, slight odor				37	
37-38	38,40 50,50/0.1'	40	0						
40-42	38,36 24,32	40	0	Brown COBBLES, little clay, trace sand, trace pebbles, wet, no odor					
42-44	57,38 20,50/0.1'	0		No Recovery				42	
44-45	18,40 50/0.4'	40	0	Brown well-rounded GRAVEL, some clay, little sand, wet no odor					
				End of boring at 45.0 feet.				47	
								52	

WELL CONSTRUCTION: 0.02 in. SLOTTED PVC; 2 in. BLANK PVC; SAND; BENTONITE SEAL

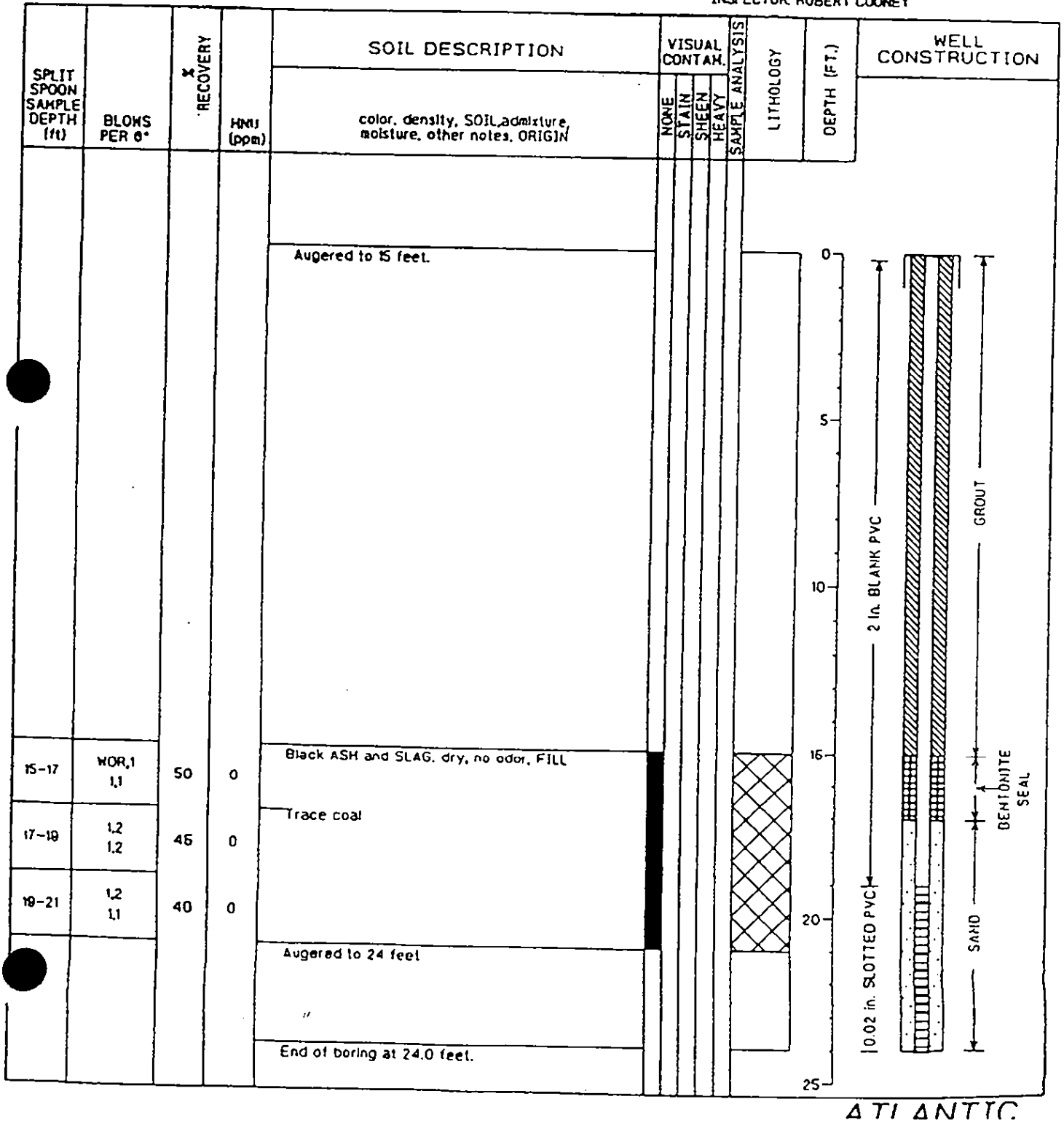
ATLANTIC

WELL MW-103

OJECT: RGGE
PROJECT NO: 1734-05-09
LOCATION: N/A
DATE STARTED: 8-11-93
DATE COMPLETED: 8-11-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS
				Augered to 15 feet.					
15-17	WOR,1 1,1	50	0	Black ASH and SLAG, dry, no odor, FILL					
17-19	1,2 1,2	45	0	Trace coal					
19-21	1,2 1,1	40	0						
				Augered to 24 feet					
				End of boring at 24.0 feet.					



ATLANTIC

ATTACHMENT 4

City of Rochester

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Enviromental Services

Office of the Commissioner
City Hall, Room 300B
30 Church Street
Rochester, New York 14614-1290

June 18, 1992

Kevin Hylton, Environmental Analyst
Rochester Gas and Electric
Research and Science Division
89 East Avenue
Rochester, New York 14649-0001

Re: Analytical Results - Bee Bee Park

Dear Kevin:

Previously I had faxed you the preliminary analytical results from the debris against the gorge wall to the west of Bee Bee Park. Attached are the final results.

The analytical parameters include the following:

1. TCLP Metals
   Volatile Organics
   Semivolatile Organics
2. Corrosivity
3. Percent Solids
4. Reactive Cyanide
5. Reactive Sulfide
6. PCB's

I will be preparing an affidavit verifying that the material has been tested, and found free of any hazardous waste.

I thought you might find the final data report useful for consultant or contractor inquiries about the nature of the potential fill material.

EEO Employer/Handicapped

If you have any questions, give me a call.

Sincerely,

Mark Gregor
Environmental Specialist

MG:JF:cmt
xc: Chris Lindley, Deputy Mayor
Edward J. Doherty, Commissioner, DES
George Stam, City Engineer
Bill Price, Engineering
Elmer Atkins, RG&E
Terry Weiss, RG&E

0893M

Laboratory Resources INC
A UNITED WATER RESOURCES COMPANY
363 Old Hook Road
Westwood, New Jersey 07675-3235
(201) 666-6644 • FAX: (201) 666-7978

CERTIFIED ANALYSIS OF WATER, WASTEWATER, SOILS, SLUDGES AND INDUSTRIAL DISCHARGES

RECEIVED
JUN 10 1992
MALCOLM P

NJ Certification # 02046
NY Certification # 10588

Malcolm Pirnie
1000 Pittsford Victor Rd
Pittsford, NY 14534

Attn: Nick Harding

Date of Report: 06/05/92
Work Order #: W2-05-340
Date Received: 05/21/92
Client #: 000676
P.O./Project #: 0965052160

PARAMETER	North BeeBee Park	South BeeBee Park
ARSENIC - TCLP	<0.0183	<0.0183
BARIUM -TCLP	0.926	0.392
CADMIUM - TCLP	0.0057	<0.0032
CHROMIUM - TCLP	<0.0077	<0.0077
LEAD - TCLP	0.0706	<0.0244
MERCURY - TCLP	<0.0004	<0.0005
SELENIUM - TCLP	<0.0532	<0.0532
SILVER - TCLP	<0.0130	<0.0130
CORROSIVITY (pH)	7.8	7.7
SOLIDS, TOTAL %	84.0	88.1

All trace metal TCLP results have been corrected for analytical bias according to the quality control section 8.0 in the Federal Register, Vol. 55, No. 126, Friday, June 29, 1990.

Laboratory Manager

LABORATORY RESOURCES, INC.
INTECH BIOLABS DIVISION
158 Tices Lane East Brunswick, New Jersey 08816 (908) 257-1050 Fax (908) 257-2790

Intech Analytical Report No. I205260
LABORATORY RESOURCES, INC.

SAMPLE IDENTIFICATION

Sample Number	Client Designation	Date Sampled	Matrix
01	North Beebee Park	5/20/92	Soil
02	South Beebee Park	5/20/92	Soil

All results for soil, sediment, and sludge samples are reported on a dry weight basis.

LABORATORY RESOURCES, INC.

INTECH BIOLABS DIVISION

158 Tices Lane East Brunswick, New Jersey 08816 (908) 257-1050 Fax (908) 257-2790

Intech Analytical Report No. I205260
LABORATORY RESOURCES, INC.

QUALITY CONTROL RESULTS: GENERAL CHEMISTRY
METHOD BLANK ANALYSIS

Parameter	Results (mg/kg)	Detection Limits (mg/kg)
Reactive Cyanide	ND	2.5
Reactive Sulfide	ND	10

LABORATORY RESOURCES, INC.

INTECH BIOLABS DIVISION

158 Tices Lane East Brunswick, New Jersey 08816 (908) 257-1050 Fax (908) 257-2790

Intech Analytical Report No. I205260
LABORATORY RESOURCES, INC.

ANALYTICAL RESULTS: GENERAL CHEMISTRY

Intech Sample Number: 01
Client Designation: North Beebee Park

Parameter	Results (mg/kg)	Detection Limits (mg/kg)
Reactive Cyanide	ND	2.3
Reactive Sulfide	ND	11
Total Solids, %	85	---

LABORATORY RESOURCES, INC.

INTECH BIOLABS DIVISION

158 Tices Lane East Brunswick, New Jersey 08816 (908) 257-1050 Fax (908) 257-2790

Intech Analytical Report No. I205260
LABORATORY RESOURCES, INC.

ANALYTICAL RESULTS: GENERAL CHEMISTRY

Intech Sample Number: 02
Client Designation: South Beebee Park

Parameter	Results (mg/kg)	Detection Limits (mg/kg)
Reactive Cyanide	ND	1.8
Reactive Sulfide	ND	11
Total Solids, %	91	---

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED:
DATE RECEIVED :
DATE ANALYZED : 06/02/92
DILUTION FACT.: 1.0

CLIENT : MALCOLM PIRNIE
LAB SAMPLE : METHOD BLANK
ANALYST : ANDY WJ
FILE NAME : >C5037

TCLP VOLATILE ORGANICS REPORT

COMPOUND	MG/L	MDL
VINYL CHLORIDE	ND	.010
1,1-DICHLOROETHENE	ND	.005
CHLOROFORM	ND	.005
1,2-DICHLOROETHANE	ND	.005
CARBON TETRACHLORIDE	ND	.005
TRICHLOROETHENE	ND	.005
BENZENE	ND	.005
2-BUTANONE	ND	.010
TETRACHLOROETHENE	ND	.005
CHLOROBENZENE	ND	.005

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-DICHLOROETHANE-D4	102 %	76 - 114	OK
TOLUENE-D8	99 %	88 - 110	OK
4-BROMOFLUOROBENZENE	101 %	86 - 115	OK

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10589

DATE COLLECTED:
DATE RECEIVED :
DATE ANALYZED : 06/02/92
DILUTION FACT.: 1.0

CLIENT : MALCOLM PIRNIE
LAB SAMPLE : TCLP BLANK(06/01/92)
ANALYST : ANDY WJ
FILE NAME : >C5044

TCLP VOLATILE ORGANICS REPORT

COMPOUND	MG/L	MDL
VINYL CHLORIDE	ND	.010
1,1-DICHLOROETHENE	ND	.005
CHLOROFORM	ND	.005
1,2-DICHLOROETHANE	ND	.005
CARBON TETRACHLORIDE	ND	.005
TRICHLOROETHENE	ND	.005
BENZENE	ND	.005
2-BUTANONE	ND	.010
TETRACHLOROETHENE	ND	.005
CHLOROBENZENE	ND	.005

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-DICHLOROETHANE-D4	107 %	76 - 114	OK
TOLUENE-D8	98 %	88 - 110	OK
4-BROMOFLUOROBENZENE	98 %	86 - 115	OK

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED: 05/20/92
DATE RECEIVED : 05/21/92
DATE ANALYZED : 06/02/92
DILUTION FACT.: 10.0

CLIENT : MALCOLM PIRNIE N.BEE BEE PARK
LAB SAMPLE : W205340-01
ANALYST : ANDY WJ
FILE NAME : >C5045

TCLP VOLATILE ORGANICS REPORT

COMPOUND	MG/L	MDL
VINYL CHLORIDE	ND	.100
1,1-DICHLOROETHENE	ND	.050
CHLOROFORM	ND	.050
1,2-DICHLOROETHANE	ND	.050
CARBON TETRACHLORIDE	ND	.050
TRICHLOROETHENE	ND	.050
BENZENE	ND	.050
2-BUTANONE	ND	.100
TETRACHLOROETHENE	ND	.050
CHLOROBENZENE	ND	.050

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-DICHLOROETHANE-D4	106 %	76 - 114	OK
TOLUENE-D8	96 %	88 - 110	OK
4-BROMOFLUOROBENZENE	100 %	86 - 115	OK

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED: 05/20/92
DATE RECEIVED : 05/21/92
DATE ANALYZED : 06/02/92
DILUTION FACT.: 10.0

CLIENT : MALCOLM PIRNIE S.BEE BEE PARK
LAB SAMPLE : W205340-02
ANALYST : ANDY WJ
FILE NAME : >C5046

TCLP VOLATILE ORGANICS REPORT

COMPOUND	MG/L	MDL
VINYL CHLORIDE	ND	.100
1,1-DICHLOROETHENE	ND	.050
CHLOROFORM	ND	.050
1,2-DICHLOROETHANE	ND	.050
CARBON TETRACHLORIDE	ND	.050
TRICHLOROETHENE	ND	.050
BENZENE	ND	.050
2-BUTANONE	ND	.100
TETRACHLOROETHENE	ND	.050
CHLOROBENZENE	ND	.050

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-DICHLOROETHANE-D4	105 %	76 - 114	OK
TOLUENE-D8	98 %	88 - 110	OK
4-BROMOFLUOROBENZENE	98 %	86 - 115	OK

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED:
DATE EXTRACTED: 06/01/92
DATE ANALYZED : 06/02/92
DILUTION FACT.: 1.0

CLIENT : MALCOLM PIRNIE
LAB SAMPLE : PROCEDURE BLANK
ANALYST : ED CWJ
FILE NAME : >03100

GC/MS SEMIVOLATILES TCLP REPORT

COMPOUND	MG/L	MDL
1,4-DICHLOROBENZENE	ND	.010
HEXACHLOROETHANE	ND	.010
NITROBENZENE	ND	.010
HEXACHLOROBUTADIENE	ND	.010
PYRIDINE	ND	.050
2-METHYLPHENOL	ND	.010
3- and 4-METHYLPHENOL	ND	.020
PENTACHLOROPHENOL	ND	.050
2,4,5-TRICHLOROPHENOL	ND	.050
2,4,6-TRICHLOROPHENOL	ND	.010
2,4-DINITROTOLUENE	ND	.010
HEXACHLOROBENZENE	ND	.010

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
NITROBENZENE-D5	70 %	35 - 114	OK
2-FLUOROBIPHENYL	58 %	43 - 116	OK
4-TERPHENYL-D14	74 %	33 - 141	OK
PHENOL-D6	34 %	10 - 94	OK
2-FLUOROPHENOL	50 %	21 - 100	OK
2,4,6-TRIBROMOPHENOL	122 %	10 - 123	OK

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED:
DATE EXTRACTED: 05/20/92
DATE ANALYZED : 05/21/92
DILUTION FACT.: 1.0

CLIENT : MALCOLM PIRNIE
LAB SAMPLE : TCLP BLANK
ANALYST : ED w/J
FILE NAME : >02966

GC/MS SEMIVOLATILES TCLP REPORT

COMPOUND	MG/L	MDL
1,4-DICHLOROBENZENE	ND	.010
HEXACHLOROETHANE	ND	.010
NITROBENZENE	ND	.010
HEXACHLOROBUTADIENE	ND	.010
PYRIDINE	ND	.050
2-METHYLPHENOL	ND	.010
3- and 4-METHYLPHENOL	ND	.100
PENTACHLOROPHENOL	ND	.050
2,4,5-TRICHLOROPHENOL	ND	.050
2,4,6-TRICHLOROPHENOL	ND	.010
2,4-DINITROTOLUENE	ND	.010
HEXACHLOROBENZENE	ND	.010

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
NITROBENZENE-D5	78 %	35 - 114	OK
2-FLUOROBIPHENYL	101 %	43 - 116	OK
4-TERPHENYL-D14	106 %	33 - 141	OK
PHENOL-D6	54 %	10 - 94	OK
2-FLUOROPHENOL	62 %	21 - 100	OK
2,4,6-TRIBROMOPHENOL	107 %	10 - 123	OK

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED: 05/20/92
DATE EXTRACTED: 06/01/92
DATE ANALYZED : 06/01/92
DILUTION FACT.: 2.0

CLIENT : MALCOLM PIRNIE No Bee Bee Pk
LAB SAMPLE : W205340-01
ANALYST : ED WJ
FILE NAME : >03084

GC/MS SEMIVOLATILES TCLP REPORT

COMPOUND	MG/L	MDL
1,4-DICHLOROBENZENE	ND	.020
HEXACHLOROETHANE	ND	.020
NITROBENZENE	ND	.020
HEXACHLOROBUTADIENE	ND	.020
PYRIDINE	ND	.100
2-METHYLPHENOL	ND	.020
3- and 4-METHYLPHENOL	ND	.040
PENTACHLOROPHENOL	ND	.100
2,4,5-TRICHLOROPHENOL	ND	.100
2,4,6-TRICHLOROPHENOL	ND	.020
2,4-DINITROTOLUENE	ND	.020
HEXACHLOROBENZENE	ND	.020

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
NITROBENZENE-D5	99 %	35 - 114	OK
2-FLUOROBIPHENYL	87 %	43 - 116	OK
4-TERPHENYL-D14	127 %	33 - 141	OK
PHENOL-D6	38 %	10 - 94	OK
2-FLUOROPHENOL	60 %	21 - 100	OK
2,4,6-TRIBROMOPHENOL	131 %	10 - 123	OUT

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE COLLECTED: 05/20/92
DATE EXTRACTED: 06/01/92
DATE ANALYZED : 06/01/92
DILUTION FACT.: 2.0

CLIENT : MALCOLM PIRNIE So Bee Bee Pk
LAB SAMPLE : W205340-02
ANALYST : ED WJ
FILE NAME : >D3085

GC/MS SEMIVOLATILES TCLP REPORT

COMPOUND	MG/L	MDL
1,4-DICHLOROBENZENE	ND	.020
HEXACHLOROETHANE	ND	.020
NITROBENZENE	ND	.020
HEXACHLOROBUTADIENE	ND	.020
PYRIDINE	ND	.100
2-METHYLPHENOL	ND	.020
3- and 4-METHYLPHENOL	ND	.040
PENTACHLOROPHENOL	ND	.100
2,4,5-TRICHLOROPHENOL	ND	.100
2,4,6-TRICHLOROPHENOL	ND	.020
2,4-DINITROTOLUENE	ND	.020
HEXACHLOROBENZENE	ND	.020

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
NITROBENZENE-D5	91 %	35 - 114	OK
2-FLUOROBIPHENYL	71 %	43 - 116	OK
4-TERPHENYL-D14	114 %	33 - 141	OK
PHENOL-D6	39 %	10 - 94	OK
2-FLUOROPHENOL	58 %	21 - 100	OK
2,4,6-TRIBROMOPHENOL	128 %	10 - 123	OUT

J Indicates detected below MDL
ND Indicates compound not detected
B Indicates compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB CERTIFICATION: NJ 02046
NY 10588

WORK ORDER #: W205340

DATE EXTRACTED: 05/28/92
DATE ANALYZED: 06/04/92
DILUTION FACTOR: 1.0
ANALYST: VINNY

PARAMETER	CLIENT ID > METHOD SAMPLE ID > BLANK	MDL
AROCLOR 1016	ND	16.6
AROCLOR 1221	ND	16.6
AROCLOR 1232	ND	16.6
AROCLOR 1242	ND	16.6
AROCLOR 1248	ND	16.6
AROCLOR 1254	ND	16.6
AROCLOR 1260	ND	16.6

SURROGATE RECOVERY (DBC) 77.61%
RETENTION TIME SHIFT (DBC) 0.00

DL = MINIMUM DETECTION LIMIT
D = NOT DETECTED AT THE MDL
ADVISORY SURROGATE LIMITS(20-150)
RETENTION TIME SHIFT LIMITS (+/- 1.5%)

ALL RESULTS EXPRESSED IN UG/KG
METHOD 8080

BORATORY RESOURCES, INC.
3 OLD HOOK ROAD
STWOOD, NJ 07675
B CERTIFICATION: NJ 02046
NY 10588

WORK ORDER #:	W205340
DATE COLLECTED:	05/20/92
DATE EXTRACTED:	05/28/92
DATE ANALYZED:	06/04/92
DILUTION FACTOR:	10.0
ANALYST:	VINNY ES

RAMETER	CLIENT ID > N BeeBee PK SAMPLE ID > 01	MDL
OCLOR 1016	ND	198
OCLOR 1221	ND	198
OCLOR 1232	ND	198
OCLOR 1242	ND	198
OCLOR 1248	ND	198
OCLOR 1254	ND	198
OCLOR 1260	ND	198

RROGATE RECOVERY (DBC)	34.46%
TION TIME SHIFT (DBC)	0.15

= MINIMUM DETECTION LIMIT
= NOT DETECTED AT THE MDL
ISORY SURROGATE LIMITS(20-150)
ENTION TIME SHIFT LIMITS (+/- 1.5%)

L RESULTS EXPRESSED IN UG/KG
THOD 8080

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB CERTIFICATION: NJ 02046
NY 10568

WORK ORDER #: W205040
DATE COLLECTED: 05/20/92
DATE EXTRACTED: 05/28/92
DATE ANALYZED: 06/04/92
DILUTION FACTOR: 10.0
ANALYST: VINNY ES

PARAMETER	CLIENT ID > @ Reese #1 SAMPLE ID > 02	MDL
AROCLOR 1016	ND	100
AROCLOR 1221	ND	100
AROCLOR 1232	ND	100
AROCLOR 1242	ND	100
AROCLOR 1248	ND	100
AROCLOR 1254	ND	100
AROCLOR 1260	ND	100

SURROGATE RECOVERY (DCB) 80.0%
RETENTION TIME SHIFT (DCB) 0.1%

* = MINIMUM DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE MDL
SURROGATE LIMITS (30-150)
RETENTION TIME WINDOW = +/- 3% (+/- 0.1 MIN)

ALL RESULTS REPORTED ON A DRY WEIGHT BASIS
EPA 8080

Laboratory Sources

CHAIN OF CUSTODY

CUSTOMER INFORMATION

CUSTOMER: MALCOLM PIRNIE, INC.
ADDRESS: 1000 PITTSFORD VICTOR RD., PITTSFORD, N.Y. 14534
TELEPHONE: 716 248 5161
PROJECT: CITY OF ROCHESTER - BEE BEE PARK
PROJECT MANAGER: N. HARDING
PROJECT LOCATION: ROCHESTER STATE: NY
PO NUMBER: 0965 052 160

REPORT INFORMATION

SEND REPORT TO:
DATE REPORT REQUIRED:
RUSH RESULTS: FAX 716 248 2332

PROJECT INFORMATION

TURNAROUND (INDICATE CALENDAR DAYS, CONFIRM WITH LAB): 2 5 7 (14) 21 OTHER:
DELIVERABLES (PLEASE CIRCLE): TIER I TIER II/ECRA
CLP RESULTS ONLY 2 E TASA OTHER:
IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
NAME: NICK HARDING
TELEPHONE: 716 248 5161

ANALYTICAL REQUESTS

LAB ID CODE	SAMPLE IDENTIFICATION W205340	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE (C)	SAMPLE TYPE: GRAB (G)	SAMPLE MATRIX: SOLID (S)	SAMPLE MATRIX: LIQUID (L)	SAMPLE MATRIX: CONTAINED (C)	SAMPLE MATRIX: OTHER (O)	PRESERVATIVE*	ANALYSIS
01	NORTH BEEBEE PARK	5/20/92	1000	X		X				ICE - 2 GLASS JARS	TCLP VOA, SEMI VOA & METALS;
02	SOUTH BEEBEE PARK	5/20/92	1000	X		X				ICE - 2 GLASS JARS	REACTIVITY; CORROSIVITY; TOTAL PCBS - ON BOTH SAMPLES

PLEASE INDICATE NUMBER OF BOTTLES

results only per N. Sheehy 5/21/92

CUSTODY

SAMPLER: Nicholas J. Harding
RECEIVED:
RELINQUISHED: Nicholas J. Harding
RECEIVED: FED EX CARRIER
RELINQUISHED:
RECEIVED:

DATE: 5/20/92
TIME: 1000 hrs
DATE: 5/20/92
TIME: 1200 hrs
DATE: 5/21/92

COMMENTS, REQUESTS OR REMARKS (Toxic?, Flammable?, Explosive?, High Levels?)

*PRESERVATIVE: NaOH H_2SO_4 HNO_3 HCL ASCORBIC ACID

Laboratory Resources INC

I205247

"WORK TRANSFER RECEIPT"

I205260

2 DAYS

RECEIVING DIVISION: (Please Check)

☐ WESTWOOD DIVISION
Westwood, NJ
800-729-0882

☐ LEHIGH VALLEY ANALYTICS DIVISION
Bethlehem, PA
215-866-4434

☐ EASTERN SCIENTIFIC DIVISION
Brooklyn, CT
Inside CT 800-932-1150
Outside CT 800-334-0103

☐ INTECH BIOLABS DIVISION
East Brunswick, NJ
800-729-1397

RECEIVING DIVISION: _____

SENT TO: Shiveck

PO #: W205340

JOB #:

QA/QC: results only

DATE: 5/21/92

NEED DAY: 6/1/92

LAB ID #	SAMPLE ID #	SAMPLE DATE	M	QTY	SZ	G	P	HNO_3	H_2SO_4	HCL	NaOH	NON	ANALYSIS
-01	NORTH BEEBEE PARK	5-20-92 1000hrs	S	1	8oz	✓						✓	REACTIVITY
-02	SOUTH BEEBEE PARK	5-20-92 1000hrs	S	1	8oz	✓						✓	REACTIVITY

G – GLASS
P – PLASTIC

M – MATRIX
H_2SO_4 – SULFURIC ACID

HCL – HYDROCHLORIC ACID
NaOH – SODIUM HYDROXIDE

NON – NONPRESERVED
HNO_3 – NITRIC ACID

COMMENTS:

PREPARED BY: Steven Cassini — Date: — Time:

METHOD OF SHIPMENT:

RELINQUISHED BY: Steven Cassini — Date: — Time: 5:30PM

RECEIVED BY: [illegible]

RECEIVING DIVISION – ORIGINAL

ATTACHMENT 5

LABORATORY NOTEBOOK

Notebook No.: _____

Assigned to: FABIAN GRABSKI

Date: _____

Use Nalgene Cat. No.
6301-1000
to reorder.

Copyright 1973, Nalge Company
Printed in U.S.A.

Rev. 1984

PROJECT CONFIRMATION SAMPLES Notebook No. _____ 97

Continued From Page _____

DATE	SAMPLE	DEPTH	AREA	UV PAH	COMMENTS
8/24/92	CS001	18'	A	3	SANDY MATERIAL
8/24/92	CS002	18'	A	1	" "
8/28/92	CS003	20'	A	5	" " W SMALL STONES
8/29/92	CS004	20'	A	3	SANDY
8/31/92	CS005	20'	A	2	SANDY, BROWN
8/31/92	CS006	20'	A	85	SLAG, SAND
			B		
			B		
			B		
			B		
			B		

RANDOM PROCESSED MATERIAL SAMPLES

DATE	SAMPLE	AREA	COMMENTS
8/28/92	CM001	A	—

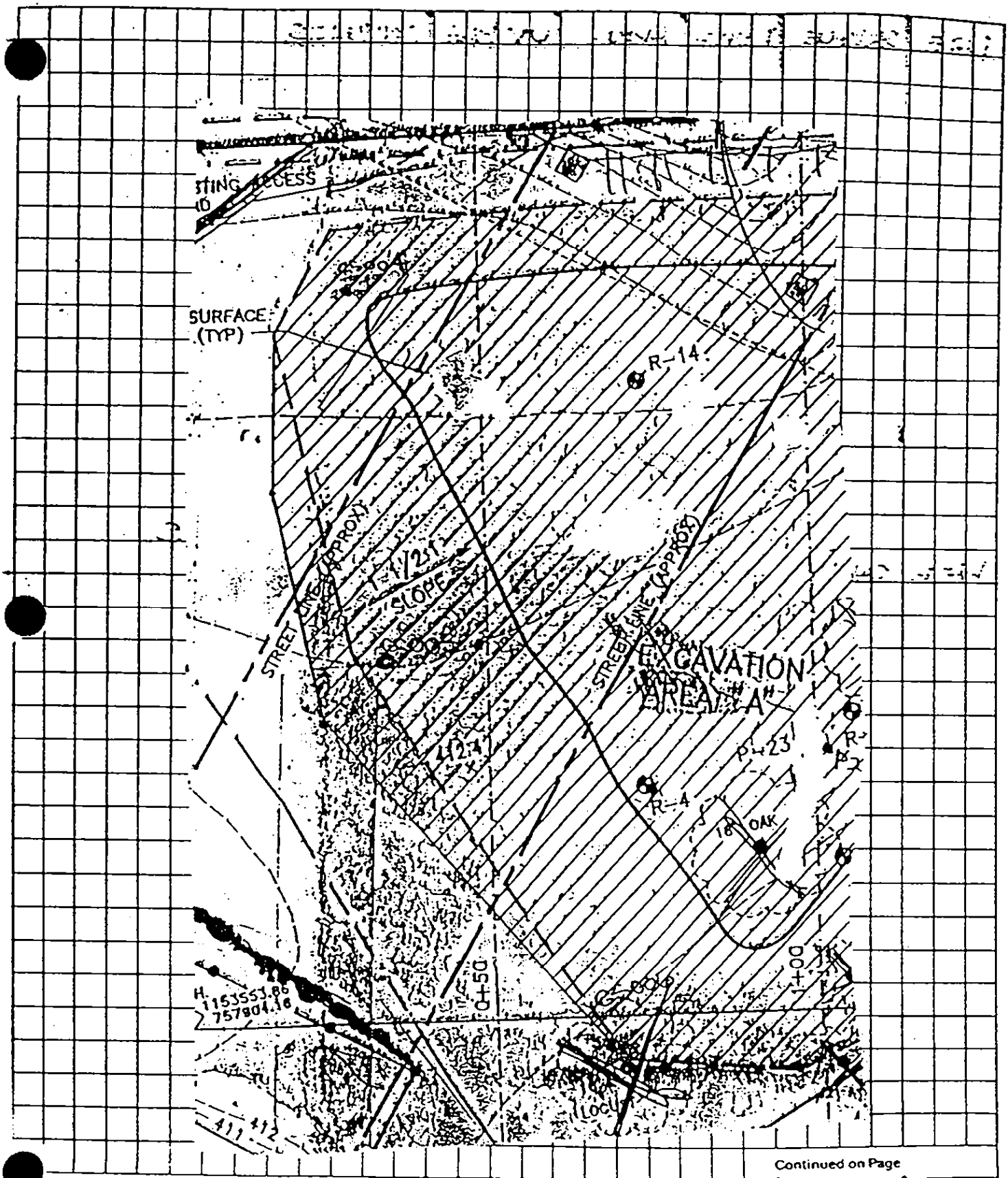
Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

PROJECT _____ Notebook No. _____

Continued From Page _____

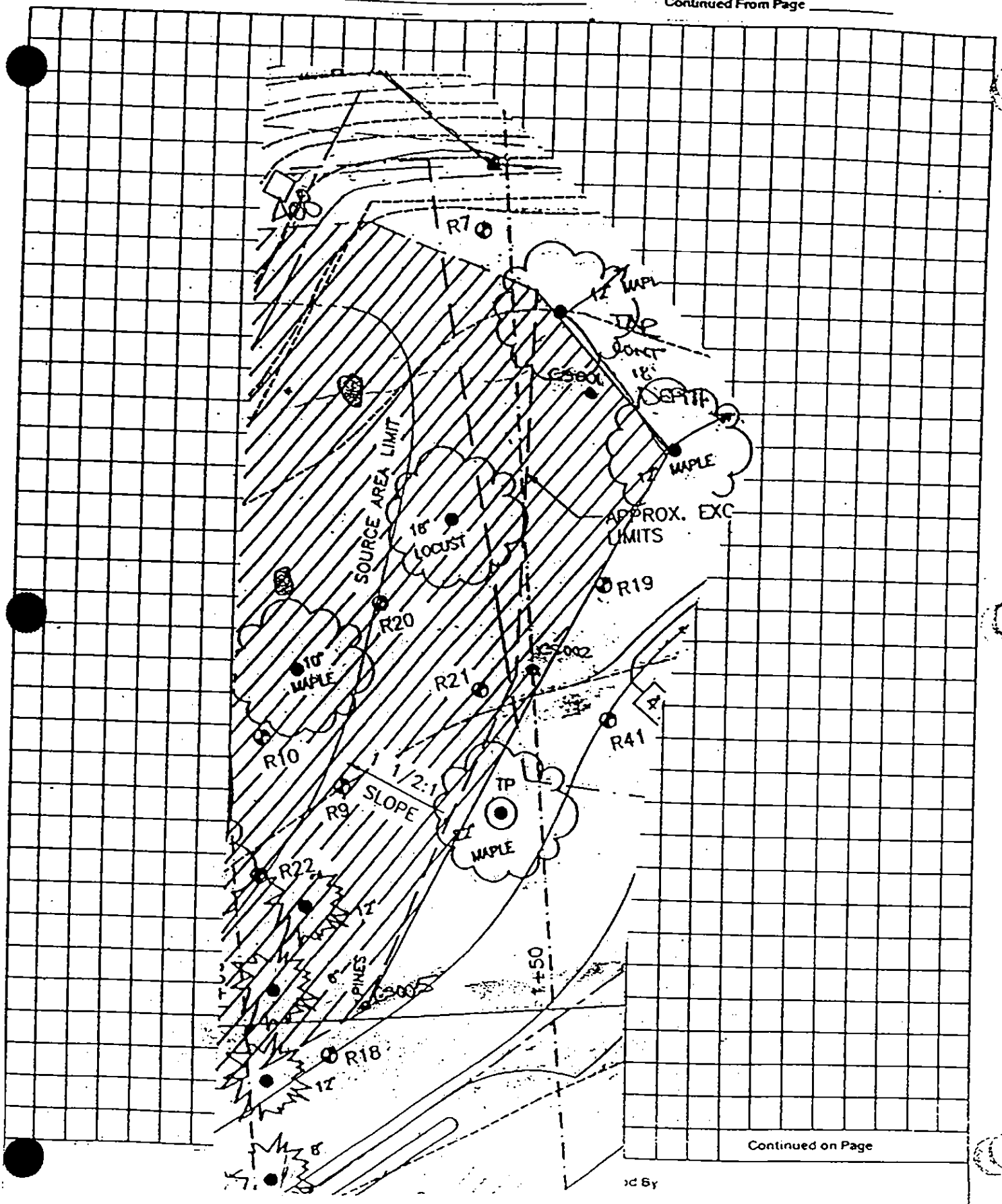


Continued on Page

Read and Understood By

Signed	Date	Signed	Date

Continued From Page _____



Continued on Page

Signed _____ Date _____ Signed _____ Date _____

ATTACHMENT 6

DRAFT

ce Laboratories, Inc.
sis Results
Number: 28995006
I.D.: ROCHESTER GAS & ELECTRIC CORP.

APPROVAL:
QC:
Lab I.D.: 10170
Sampled by: Client

GCO-01

8995006 Mat:Water WEST STATION MIDWAY BETWEEN PLATT ST BRIDGE & RIVER 10/13/95 G

PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
TCL Volatiles by EPA Method 8240				
Chloromethane	<3ug/l	10/16/95		VM0786
Bromomethane	<3ug/l	10/16/95		VM0786
Vinyl Chloride	<2ug/l	10/16/95		VM0786
Chloroethane	<3ug/l	10/16/95		VM0786
Methylene Chloride	<3ug/l	10/16/95		VM0786
Acetone	<10ug/l	10/16/95		VM0786
Carbon Disulfide	<3ug/l	10/16/95		VM0786
1,1-Dichloroethene	<3ug/l	10/16/95		VM0786
1,1-Dichloroethane	<3ug/l	10/16/95		VM0786
trans-1,2-Dichloroethene	<3ug/l	10/16/95		VM0786
cis-1,2-Dichloroethene	<3ug/l	10/16/95		VM0786
Chloroform	<3ug/l	10/16/95		VM0786
1,2-Dichloroethane	<3ug/l	10/16/95		VM0786
2-Butanone	<10ug/l	10/16/95		VM0786
1,1,1-Trichloroethane	<3ug/l	10/16/95		VM0786
Carbon Tetrachloride	<3ug/l	10/16/95		VM0786
Bromodichloromethane	<3ug/l	10/16/95		VM0786
1,2-Dichloropropane	<3ug/l	10/16/95		VM0786
cis-1,3-Dichloropropene	<3ug/l	10/16/95		VM0786
Trichloroethene	<3ug/l	10/16/95		VM0786
Dibromochloromethane	<3ug/l	10/16/95		VM0786
1,1,2-Trichloroethane	<3ug/l	10/16/95		VM0786
Benzene	<3ug/l	10/16/95		VM0786
trans-1,3-Dichloropropene	<3ug/l	10/16/95		VM0786
Bromoform	<3ug/l	10/16/95		VM0786
4-Methyl-2-pentanone	<10ug/l	10/16/95		VM0786
2-Hexanone	<10ug/l	10/16/95		VM0786
Tetrachloroethene	<3ug/l	10/16/95		VM0786
1,1,2,2-Tetrachloroethane	<3ug/l	10/16/95		VM0786
Toluene	<3ug/l	10/16/95		VM0786
Chlorobenzene	<3ug/l	10/16/95		VM0786
Ethylbenzene	<3ug/l	10/16/95		VM0786
Styrene	<3ug/l	10/16/95		VM0786
m-Xylene and p-Xylene	<3ug/l	10/16/95		VM0786
o-Xylene	<3ug/l	10/16/95		VM0786

FAX MEMO
#PAGES DATE 10/17 FAX # (716) 724-8683
TO Rochester G&E
FROM Wendy
CO. U.L.I.
PH # FAX #

Upstate Laboratories, Inc.
Analysis Results
Report Number: 29095011
Client I.D.: ROCHESTER GAS & ELECTRIC CORP.

DRAFT

APPROVAL:
QC: WL

Lab I.D.: 10170
Sampled by: Client

ID:29095011 Mat:Water WEST STATION MIDWAY BETWEEN PLATT ST BRIDGE & RIVER 10/16/95 G

PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
EPA Method 625, Acid Extractables				
2-Chlorophenol	(5ug/l	10/16/95		SA0709
2,4-Dichlorophenol	(5ug/l	10/16/95		SA0709
2,4-Dimethylphenol	(5ug/l	10/16/95		SA0709
2-Methyl-4,6-dinitrophenol	(50ug/l	10/16/95		SA0709
2,4-Dinitrophenol	(50ug/l	10/16/95		SA0709
2-Nitrophenol	(5ug/l	10/16/95		SA0709
4-Nitrophenol	(50ug/l	10/16/95		SA0709
4-Chloro-3-methylphenol	(5ug/l	10/16/95		SA0709
Pentachlorophenol	(10ug/l	10/16/95		SA0709
Phenol	(5ug/l	10/16/95		SA0709
2,4,6-Trichlorophenol	(5ug/l	10/16/95		SA0709
EPA Method 625, Base/Neutral Ext.				
Acenaphthene	(5ug/l	10/16/95		SA0709
Acenaphthylene	(5ug/l	10/16/95		SA0709
Anthracene	(5ug/l	10/16/95		SA0709
Benzidine	(50ug/l	10/16/95		SA0709
Benzo(a)anthracene	(5ug/l	10/16/95		SA0709
Benzo(a)pyrene	(5ug/l	10/16/95		SA0709
Benzo(b)fluoranthene	(5ug/l	10/16/95		SA0709
Benzo(ghi)perylene	(5ug/l	10/16/95		SA0709
Benzo(k)fluoranthene	(5ug/l	10/16/95		SA0709
bis(2-Chloroethoxy)methane	(5ug/l	10/16/95		SA0709
bis(2-Chloroethyl)ether	(5ug/l	10/16/95		SA0709
bis(2-Chloroisopropyl)ether	(5ug/l	10/16/95		SA0709
bis(2-Ethylhexyl)phthalate	(5ug/l	10/16/95		SA0709
4-Bromophenylphenylether	(5ug/l	10/16/95		SA0709
Butylbenzylphthalate	(5ug/l	10/16/95		SA0709
2-Chloronaphthalene	(5ug/l	10/16/95		SA0709
4-Chlorophenylphenylether	(5ug/l	10/16/95		SA0709
Chrysene	(5ug/l	10/16/95		SA0709
Dibenzo(a,h)anthracene	(5ug/l	10/16/95		SA0709
1,2-Dichlorobenzene	(5ug/l	10/16/95		SA0709
1,3-Dichlorobenzene	(5ug/l	10/16/95		SA0709
1,4-Dichlorobenzene	(5ug/l	10/16/95		SA0709
3,3'-Dichlorobenzidine	(5ug/l	10/16/95		SA0709
Diethylphthalate	(5ug/l	10/16/95		SA0709
Dimethylphthalate	(5ug/l	10/16/95		SA0709
di-n-butylphthalate	(5ug/l	10/16/95		SA0709
2,4-Dinitrotoluene	(5ug/l	10/16/95		SA0709

FAX MEMO
PAGES 2 DATE 10/18 FAX # 716 724-8683
TO Kathy Hylton
FROM Wendy
CO. WLI
PH # FAX #

TE: / /

state Laboratories, Inc.
alysis Results
Number: 29095011
I.D.: ROCHESTER GAS & ELECTRIC CORP.

DRAFT

APPROVED
QC:
Lab I.D.: 10170
Sampled by: Client

:29095011 Mat:Water WEST STATION MIDWAY BETWEEN PLATT ST BRIDGE & RIVER 10/16/95 G

PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
2,6-Dinitrotoluene	<5ug/l	10/16/95		SA0709
di-n-octylphthalate	<5ug/l	10/16/95		SA0709
1,2-Diphenylhydrazine	<5ug/l	10/16/95		SA0709
Fluoranthene	<5ug/l	10/16/95		SA0709
Fluorene	<5ug/l	10/16/95		SA0709
Hexachlorobenzene	<5ug/l	10/16/95		SA0709
Hexachlorobutadiene	<5ug/l	10/16/95		SA0709
Hexachlorocyclopentadiene	<5ug/l	10/16/95		SA0709
Hexachloroethane	<5ug/l	10/16/95		SA0709
Indeno(1,2,3-cd)pyrene	<5ug/l	10/16/95		SA0709
Isophorone	<5ug/l	10/16/95		SA0709
Naphthalene	<5ug/l	10/16/95		SA0709
Nitrobenzene	<5ug/l	10/16/95		SA0709
n-Nitrosodimethylamine	<5ug/l	10/16/95		SA0709
n-Nitrosodi-n-propylamine	<5ug/l	10/16/95		SA0709
n-Nitrosodiphenylamine	<5ug/l	10/16/95		SA0709
Phenanthrene	<5ug/l	10/16/95		SA0709
Pyrene	<5ug/l	10/16/95		SA0709
1,2,4-Trichlorobenzene	<5ug/l	10/16/95		SA0709

ATTACHMENT 7

COMMUNITY OUTREACH PROGRAM

ROCHESTER GAS AND ELECTRIC CORPORATION

WEST STATION SITE REMEDIATION

August 15, 1995

Designed by

Frances S. Gotcsik
Public Involvement and Environmental Communications
7364 East Main Street
Lima, NY 14485
(716) 624-5674

I. Current Situation 1
II. Community Outreach Program Goals and Objectives 2
III. Community Outreach Program Communication Strategy 2
A. Audience Identification 2
B. Channels of Communication 2
1. Press releases 3
2. Media conferences 3
3. RG&E wire services 3
4. Project information centers 3
5. ASK RG&E public information telephone line 3
7. Letters to neighborhood residents and businesses 3
8. Informational sign on the Pont de Rennes Bridge 4
9. Presentations to Groups 4
10. Communications Advisory Committee 4
11. Employee newsletter and/or information distribution system 5
12. Elected and other governmental officials meetings and/or telephone calls 5
13. Public meetings 5
C. Identification of public concerns 5
1. Communications Advisory Committee 5
2. RG&E employees 5
3. Technical consultants 5
D. Message Development and Delivery 6
E. Contingency Plans 7
F. Evaluation 8
G. Project Management 8

I. Current Situation

In July, 1992, Rochester Gas and Electric Corporation (RG&E) began remediation of a site, known to contain coal tar and oil, located adjacent to RG&E's former West Station manufactured gas plant (MGP) in Rochester, NY. Remediation and further investigation of the site has proceeded in several phases during the last three years. From July to September, 1992, 9000 tons of coal tar impacted soil were excavated. Additional testing of soils in a previously unexcavated area was undertaken during March and April of 1993. In June, 1993, RG&E decided not to proceed with further remediation and investigation activities pending further study of treatment and disposal alternatives and the expected introduction of a cost effective and environmentally sound clean-up technology in 1994. RG&E's decision was also based on the presence of minimal risk to the public and the Genesee River ecosystem from materials remaining at the site.

In 1994, RG&E removed approximately 500 tons of coal tar impacted soil in order to pilot test two different experimental soil treatment technologies to determine their suitability for future large scale use at the site. Pure tar was also excavated from the site. Coal tar impacted soil less than .75 inch diameter and/or pure tar were added in varying, yet small amounts, to the normal coal feed stock at the adjacent Beebee Station electric generating plant. Excavated coal tar impacted soil was also transported off-site for use in testing two different soil washing techniques. The co-burning of coal tar impacted soil and/or pure tar in the Beebee Station boiler was determined to be feasible and environmentally sound.

Beginning in October 1995, RG&E intends to resume clean-up of the site to a standard suitable for future potential use as a public access park. RG&E has established the following project objectives:

- reduce public health and environmental risk to levels considered "acceptable" by New York State Department of Environmental Conservation (NYSDEC) and the Federal Environmental Protection Agency (EPA) (to a level at or below the clean-up level negotiated with the NYS DEC)
- enhance aesthetic conditions for possible future use of the property.

Approximately 8-15,000 tons of coal tar impacted soils will be screened on site to remove unimpacted rock. The impacted soil will be transported to New York State Electric and Gas's (NYSEG) Hickling Station in East Corning, NY for thermal treatment in their permitted solid waste facility rather than at Beebee Station based on NYSEG's lower costs. Approximately 3,000 tons of pure tar will be sent by truck to a Wooster, Ohio tar recycler for processing and eventual reuse as a liquid, raw material feedstock. The impacted soil will not be processed in the Beebee Station boiler because NYSEG can offer the service at lower cost. This final phase of site remediation is expected to take four months.

RG&E wishes to continue its program of proactive, open, two-way public communication of information about the site, the remediation technologies being utilized, and the risks to human health and the environment associated with the site and the selected remediation technologies.

II. Community Outreach Program Goals and Objectives

RG&E has solicited this proposal for development of a communications and public involvement program that satisfies these goals and objectives.

Goals

- Communicate RG&E project objectives
- Provide information about the site, the planned site remediation activities, and the remediation technologies
- Communicate the human health and environmental risk associated with the site before, during, and after the remediation activities
- Create a dialogue between RG&E and the public
- Build trust and credibility in the communication strategy

Objectives

- Provide all interested parties with the information they need to make their own decisions regarding the site and the impact on their activities related to the site.
- Provide an opportunity, where appropriate, for all interested parties to impact the project.
- Allow independent technical consultants to offer additional information, interpretation, and project review that can be disseminated to the public.
- Respond to media inquiries in a timely fashion with the most accurate information.
- Ensure that feedback from the general public reaches and is given consideration by appropriate RG&E personnel.

The community outreach program will be considered successful if the goals and objectives are met whether or not that includes the public's total agreement with RG&E's decisions. *Furthermore, in evaluating program success, it should be noted that successful communication and public involvement strategies may also be manifested as a lack of public outcry or concern.*

III. Community Outreach Program Communication Strategy

A. Audience Identification

The list of audiences identified for prior phases of the project will be reviewed for alterations, additions or deletions due to changes in the nature of the neighborhood, types of activities included in the project, and other public issues impacting RG&E. Assistance with audience identification will also be sought from RG&E personnel and the communications advisory committee.

B. Channels of Communication

Channels of communication will be identified for every audience. Channel selection for identified audiences developed for prior phases of the project will be reviewed for alterations, additions or deletions. Input will be sought from RG&E personnel and the communications advisory committee as to channel identification and selection.

Previously employed channels that will be continued:

1. **Press releases**

All print and electronic media contacts will be supplied with a press release and fact sheets at the time of project announcements. Fact sheets will be succinct, but provide project background and current status information that supplements that found in the press release. Press releases will be prepared when project events dictate, but two are presently scheduled, prior to and at the conclusion of site remediation work.

2. **Media conferences**

Coincident with the initial public announcement, RG&E will conduct a media conference at the site. The conference will allow the local print and electronic media the opportunity to familiarize themselves with the site, film or photograph the area, hear a short presentation about the project, and ask questions of the RG&E corporate spokesperson and Senior Environmental Analyst, Kevin Hylton. Press packets containing more detailed background fact sheets will be distributed at the media conference.

It is anticipated that a second media conference will be held at the site once it is fully remediated as it will provide an opportunity to film/photograph the restored area and allow RG&E to publicly announce the end of the clean-up.

Depending on the level of interest, other media conferences may be scheduled during the course of the project.

3. **RG&E wire services**

RG&E's standard distribution list of weekly newspapers and nonlocal newspapers, TV and radio contacts will be reached through this communication channel.

4. **Project information centers**

Project information centers will be established at the Center for Environmental Information, Inc. and the Rundel Public Library. These centers will contain project work plans, final or interim reports of 1992, 1993, and 1994 site activities; copies of fact sheets; and selected handouts on MGP plants in general. Materials will be updated, if required, through the course of the project.

No guarantees will be made that any assistance will be provided by CEI or public library personnel to those visiting the centers. RG&E may elect to loan some selected documents to CEI to augment their collection of appropriate library resources, as they did during previous phases of the project.

5. **ASK RG&E public information telephone line**

The ASK RG&E telephone line presently includes a number to select to access information regarding the project. Ms. Gotcsik will work with RG&E personnel to modify the outdated telephone message currently in the system. The two-minute message will describe the site activities and goals for the project, state the location of the project information centers, and direct anyone with questions or wishing to receive copies of the facts sheets to telephone RG&E Senior Environmental Analyst and Project Manager, Kevin Hylton.

7. **Letters to neighborhood residents and businesses**

Residents and businesses in the immediate neighborhood of the site will receive an informational letter and fact sheet prior to the start of work. RG&E personnel will develop the mailing list using service records.

8. Informational sign on the Pont de Rennes Bridge

An informational sign will be erected on the Pont de Rennes bridge briefly describing the nature and objectives of the work, the date when it will be complete, the telephone number to contact for more information, and the location of document repositories.

Because this phase of the project will involve significant visible site activity in an area frequented by tourists and many members of the community, erection of a sign is especially important to communicating information to the general public. A sign will provide immediate feedback to the public at a time when their interest in the site is greatest.

9. Presentations to Groups

RG&E will make presentations of project information to groups who express an interest in learning more about the project. The Monroe County Health Department has recently requested a presentation focusing on the community outreach program. Brown's Race Neighborhood Association, Rochester Committee for Scientific Information, and Monroe County Water Quality Strategy Committee Genesee River Embayment group have heard presentations in the past and will probably be interested in the opportunity to hear more about this phase of the project. Genesee River Alliance's suggestion of hosting a joint meeting with Adirondack Mountain Club or other groups will be pursued.

10. Communications Advisory Committee

Before public announcement of the project, a communications advisory committee will be reconvened to hear about the project plans, assist with communication strategy development, and advise on the public response to the project. Members will serve to relay information to their representative groups and other members of the community with whom they have contact.

Representation from Rochester Committee for Scientific Information, Sierra Club, Adirondack Mountain Club, Genesee River Alliance, League of Women Voters, Brown's Race Neighborhood Association, Kodak Neighborhood Information Center, and a long-time river enthusiast will again be solicited. Previous members will be asked to continue to serve if possible. However, final selection of membership will be determined by Ms. Gotcsik and RG&E using the previously established criteria of individuals:

- known to be moderate and collaborative
- taking an informed and active part in the community
- representative of a variety of perspectives
- able to help identify potential concerns.

Consideration will be given to increasing membership to reflect the additional interest in all RG&E activities recently shown by groups such as AARP and the development activity being undertaken at High Falls.

Meetings of the communications advisory committee will be convened, facilitated and summarized by Ms. Gotcsik. All members will receive copies of the meeting summaries and project fact sheets.

Prior to the initial meeting, all members will receive background materials so that everyone can be familiar with events leading up to this phase of the site remediation project. At the first meeting of the committee, RG&E will describe its project and communication goals and objectives and planned project activities. Members will be invited to ask questions on all aspects of the project. RG&E will also clearly articulate those areas in which they would like communications advisory committee input and how they intend to use that input in order that a clear link be established between the input of the committee and the messages and actions of RG&E.

11. Employee newsletter and/or information distribution system

Information concerning the project and periodic project updates will be carried through RG&E internal communication systems including its bulletin board system posted by elevators and its electronic information system.

12. Elected and other governmental officials meetings and/or telephone calls

All interested parties and involved agencies will be informed of the project as per SEQRA protocol. The Community Outreach Program Plan will be provided to the DEC Regional Citizen Participation Specialist for their review and comment prior to beginning outreach program activities. RG&E personnel will personally inform selected governmental representatives, health and safety, and transportation personnel prior to public announcement of this phase of the project. Fact sheets will be provided.

13. Public meetings

Public informational meetings to present project information or address issues of concern will be held if the need is indicated as registered by calls to the ASK RG&E telephone line, calls to Kevin Hylton, letters to the editor, or calls to local talk shows. Advice from the communications advisory committee will also be sought as to whether public meetings may be necessary. The final decision to conduct public meetings will be made by RG&E in conjunction with Ms. Gotcsik. If held, such meetings will be organized and facilitated by Ms. Gotcsik. Fact sheets will be made available, all comments recorded on flip charts, and a summary of the meeting prepared by Ms. Gotcsik and distributed to all in attendance.

C. Identification of public concerns

Project information will be reviewed by Ms. Gotcsik in the context of identifying questions and concerns that may be generated by the public. Input from others will also be sought to in order that project details be reviewed from a number of different perspectives.

Those assisting with identification of public concerns will include:

1. **Communications Advisory Committee**

2. **RG&E employees**

Meetings with Beebee Station employees will offer RG&E Senior Environmental Analyst Kevin Hylton an opportunity to provide project information and gather feedback on concerns or suggestions that the most affected group of individuals may have regarding the project. One meeting will be planned for prior to start of work at the site. Others will be held as needed.

3. **Technical consultants**

A mammalian toxicologist and ecotoxicologist, both of whom are already familiar with the project, will be asked to review project information, provide comments regarding scientific aspects of the work, assist with interpretation of risk based standards, and identify issues that may be of concern to the public. A hydrogeologist and risk communication consultant familiar with the project may also be asked to provide input. Technical consultants may also be asked to assist with answering complex public inquiries and provide advice in case of an unexpected event. Utilization of the services of such consultants will be carried out on an as needed basis.

Other means by which public concerns will be identified include:

1. Comments and questions from persons calling RG&E's Project Manager, Kevin Hylton, and from persons attending meetings or public presentations regarding the project will provide feedback on issues of importance and concern to the public.

2. A report of the number of calls to the ASK RG&E telephone line will provide an assessment of the degree of citizen interest in the project.

3. RG&E corporate communications personnel will be asked to provide input based on their knowledge of and interaction with the RG&E customer base.

D. Message Development and Delivery

Messages will be tailored to audiences and their information needs and will reflect feedback from the communications advisory committee and any public comments received throughout the course of the project. Messages will be based on the three most important points of information that:

- RG&E wishes the audience to learn
- the audience would like to know
- the audience will probably get wrong unless it is especially emphasized.

Messages will be communicated using:

1. Fact Sheets

   Two versions will be developed. One will be short, probably no more than one page, and will contain basic project information presented in bullet form. The short version of the fact sheet will be distributed with the neighbors' letter, the press releases, and with visits or calls to elected or other governmental and health and safety officials. Another version will include several sheets addressing specific topics in greater detail such as background information on the site, review of 1992, 1993 and 1994 activities and findings, background information on manufactured gas plant wastes and greater detail on the present site activities and remediation technologies being used. These fact sheets will be included in the press packets and made available to the public at the document repositories, at any public meetings or meetings with specific groups, and by requests relayed through the ASK RG&E telephone line. Communications advisory committee members and technical consultants will also receive copies of all fact sheets.

   Both versions of the fact sheets will be updated, if necessary, during the course of the project.

2. Informational sign on the Pont de Rennes bridge

3. Press Releases

4. ASK RG&E public information telephone line

5. Public presentations

Messages will include:

- background information, refreshing the public memory of previous project activities
- project information - what will take place at the site, how and where the material will be shipped, how the material will be treated, what the site will look like when work is complete, and eventual uses for the site
- identification of areas where there is an opportunity for public input
- health and environmental risks of the site and the remediation technologies
- project time schedule
- site map
- ASK RG&E telephone number
- location of the public information centers

E. Contingency Plans

Responsibilities of involved parties should be well defined to avoid confusion and inaction because of uncertainty as to who is in control and who should be involved. While the exact nature of such occurrences can never be predicted, consideration of possible scenarios and responses can enhance preparedness.

1. Communication crisis

It is hoped that open, honest, easily understandable and appropriate messages and thorough identification of audiences and their concerns will prevent RG&E from losing control of communications so that they become reactive and defensive rather than proactive. However, should a communication crisis occur, a chain of communications should be established. The one individual responsible for dealing with the media in a project crisis should be identified beforehand. If there is more than one person who may assume that role, owing to weekends and holidays, then all those who may have to address the project in this way should be kept up to date with its activities.

While the corporate spokesperson on call may be the first to respond to a crisis situation, it should be agreed how far into project detail and discussion that individual should delve before referring to Senior Environmental Analyst, Kevin Hylton. Backups for Mr. Hylton will be established so that an Environmental Health and Safety Department person who has knowledge of the project is always available.

Situations that cannot be dealt with solely by candidly and swiftly correcting misinformation or misinterpretation of information or supplying additional information, should require timely convening of appropriate members of the project team for a strategy development session, including Mr. Hylton, the corporate spokesperson, Ms. Gotcsik, and other personnel whose duties are related to the issue such as a contractor or engineering consultant.

Such situations may also require quick convening of the communications advisory committee and possibly a public meeting.

2. Crisis at the site

All messages should convey the uncertainty inherent in the work. Discovery of results or materials worse than anticipated should be dealt with candor and in a publicly proactive, timely fashion, whether full knowledge and understanding of the unexpected situation has been achieved or not. As much information as is available should be offered as soon as possible.

FIGURE 1

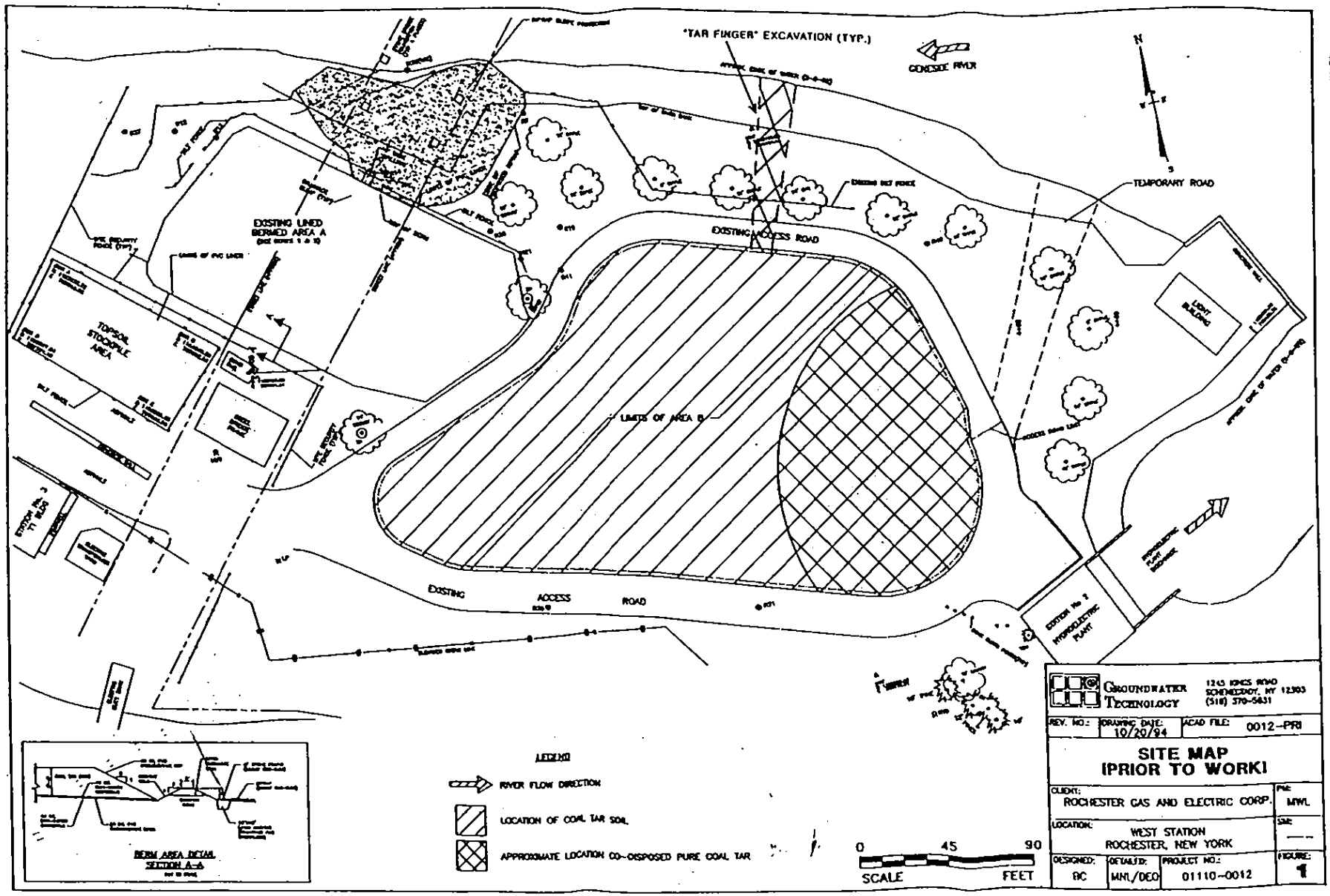

"TAR FINGER" EXCAVATION (TYP.)
GENESEE RIVER
N
TEMPORARY ROAD
EXISTING LINED BERMED AREA A
EXISTING ACCESS ROAD
TOPSOIL STOCKPILE AREA
LIMITS OF AREA B
EXISTING ACCESS ROAD
STATION No. 3 HYDROELECTRIC PLANT
STATION No. 2 HYDROELECTRIC PLANT
LIGHT BUILDING
BERM AREA DETAIL SECTION A-A
LEGEND
RIVER FLOW DIRECTION
LOCATION OF COAL TAR SOIL
APPROXIMATE LOCATION CO-DISPOSED PURE COAL TAR
0 45 90
SCALE FEET
GROUNDWATER TECHNOLOGY
1245 KINGS ROAD SCHENECTADY, NY 12303 (518) 370-5831
REV. NO.:
DRAWING DATE: 10/20/94
ACAD FILE: 0012-PRI
SITE MAP (PRIOR TO WORK)
CLIENT: ROCHESTER GAS AND ELECTRIC CORP.
PM: MWL
LOCATION: WEST STATION ROCHESTER, NEW YORK
SM: ---
DESIGNED: RC
DETAILED: MN1/DEO
PROJECT NO.: 01110-0012
FIGURE: 1

FIGURE 2

RG&E Drawing No. 00036-01-012-01 not included here

Title of drawing is West Station Phase 3 Remedial Plan

Hylton

ROCHESTER GAS AND ELECTRIC CORPORATION

WEST STATION SITE

GROUNDWATER ELEVATIONS[1] - 6/17/94 THROUGH 6/21/95

DATE	101S	101D	102S	102D	103
6/17/94	394.64	394.58	402.2	394.92	394.16
9/15/94	393.04	392.78	392.61	392.58	392.96
12/7/94	394.04	393.96	394.70	394.52	394.04
3/8/95	394.54	394.88	395.01	394.08	395.11
6/21/95	393.02	392.33	392.36	392.25	393.08
9/28/95[2]	392.46	392.33	392.45	392.25	393.00

[1] Canal datum

[2] Analytical data not yet received.

DESCRIPTION OF AREA DESIGNATED FOR
ENVIRONMENTAL CLEAN UP

Commencing at a point that is the intersection of the east line of Browns Race with the south line of the former Platt Street Bridge. Running thence along the south line of the former Platt Street Bridge, the following three courses, N 44 27'59" E a distance of 6.41 feet to a point. Thence N 36 23' 44" E a distance of 76.83 feet to a point. Thence N 41 40'59" E a distance of 10.00 feet to the point of beginning, thence

1. N 41 40'59" E along the south street line of Platt Street Bridge a distance of 345.92 feet to a point on the top of the west bank of the Genesee River, thence

2. South easterly along the top of the river bank to a point on the north foundation wall of Rochester Gas & Electric Corporation's old station no. 2. Said point being S 63 23'48" E a distance of 368.50 feet (tie line course) from the previously described point, thence

3. S 46 40'11" W a distance of 319.42 feet to a point that is the northeast corner of lands owned, now or formerly, by the City of Rochester, thence

4. S 45 33'45" W a distance of 22.50 feet to a point, thence

5. N 55 17'48" W a distance of 72.29 feet to a point, thence

6. N 34 48'09" W a distance of 13.55 feet to a point, thence

7. N 61 01'33" W a distance of 41.67 feet to a point, thence

8. N 67 40'58" W a distance of 54.59 feet to a point, thence

9. N 74 32'22" W a distance of 37.25 feet to a point, thence

10. N 67 41'08" W a distance of 53.31 feet to a point, thence

11. N 75 44'05" W a distance of 74.04 feet to a point in the south line of the former Platt Street Bridge also being the place of beginning, intending to describe a parcel of land containing 2.548 acres up to tie line.

FIGURE 3

EXHIBIT "C"

Assignable Release and Covenant Not To Sue by Department

[On Department Letterhead]

[Insert Date]

To whom it may concern:

The Department is pleased to report that the Department is satisfied that the Department-approved Work Plan has been successfully implemented at the parcel of land located at the foot of the High Falls on the west bank of the Genesee River in the City of Rochester, sometimes known as "Beebee Park," a map of which is attached hereto as Appendix "A." So long as no information has been withheld from the Department or mistake made as to the hazard posed by any site-related compound or analyte of concern, the Department believes that no further investigation or response will be required at the Beebee Park property for any coal tar contamination existing as of **[insert effective date of this Agreement]**.

Assignable Release and Covenant Not To Sue by Department:

The Department, therefore, hereby releases, covenants not to sue, and forbears from bringing any action, proceeding, or suit against, the current or future owners and operators of the Beebee Park property or any interest in that property, including the Rochester Gas and Electric Corporation ("Volunteer"), the Volunteer's lessees, sublessees, successors, and assigns, and their respective secured creditors, for the further investigation or remediation of the site based upon the release or threatened release at the Beebee Park property of any coal tar, including any hazardous substance, pollutant, waste and/or contaminant constituents, present or existing in, on, at or under the site as of **[insert effective date of this Agreement]** ("Existing Contamination"); provided that (a) timely payments of the amounts specified in Paragraph VI of the Agreement dated **[insert effective date of this Agreement]**, between the Department and the Volunteer are being or have been made to the Department, and (b) the Volunteer and/or its lessees, sublessees, successors, or assigns promptly commence and diligently pursue to completion the Department-approved post-response operation and maintenance plan, if any.

Nevertheless, the Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary:

1. due to environmental conditions related to the Site that were unknown to the Department at the time of its approval of the Work Plan or the last written modification approved by the Department thereto; or

2. due to information received, in whole or in part, after the Department's approval of the final engineering report and certification, which indicates that the response action performed at the site regarding the Existing Contamination is not sufficiently protective of human health for the reasonably anticipated commercial/industrial/recreational uses of the Site by Volunteer or its lessees, sublessees, successors, and assigns.

Additionally, the Department hereby reserves all of its rights concerning, and any such release, covenant not to sue, and forbearance shall not extend to any of Volunteer's lessees, sublessees, successors, or assigns who cause a, or suffer the, release or threat of release, at the Site of any hazardous substance (as that term is defined at 42 USC 9601[14]) or petroleum (as that term is defined in Navigation Law § 172[15]) after [**insert the effective date of this Agreement**]; who cause a, or suffer the use of the Site to, change from commercial/industrial/recreational use to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health; or who are otherwise responsible parties for the Existing Contamination.

In conclusion, the Department is pleased to be part of this effort to return abandoned industrial property to commercial/industrial/recreational use of benefit to the entire community.

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION

By:_____

Its:_____

Appendix "A"

(to Exhibit "C")

~~Map of Beebee Park Property~~ Description of the Site

Commencing at a point that is the intersection of the east line of Browns Race with the south line of the former Platt Street Bridge. Running thence along the south line of the former Platt Street Bridge, the following three courses, N 44° 27' 59" E a distance of 6.41 feet to a point. Thence N 36° 23" 44" E a distance of 76.83 feet to a point. Thence N 41° 40' 59" E a distance of 10.00 feet to the point of beginning, thence,

1. N 41° 40' 59" E along the south street line of Platt Street Bridge a distance of 345.92 feet to a point on the top of the west bank of the Genesee River, thence

2. South easterly along the top of the river bank to a point on the north foundation wall of Rochester Gas & Electric Corporation's old station no. 2. Said point being S 63° 23' 48" E a distance of 368.50 feet (tie line course) from the previously described point, thence

3. S 46° 40' 11" W a distance of 319.42 feet to a point that is the northeast corner of lands owned, now or formerly, by the City of Rochester, thence

4. S 45° 33' 45" W a distance of 22.50 feet to a point, thence

5. N 55° 17' 48" W a distance of 72.29 feet to a point, thence

6. N 34° 48' 09" W a distance of 13.55 feet to a point, thence

7. N 61° 01' 33" W a distance of 41.67 feet to a point, thence

8. N 67° 40' 58" W a distance of 54.59 feet to a point, thence

9. N 74° 32' 22" W a distance of 37.25 feet to a point, thence

10. N 67° 41' 08" W a distance of 53.31 feet to a point, thence

11. N 75° 44' 05" W a distance of 74.04 feet to a point in the south line of the former Platt Street Bridge also being the place of beginning, intending to describe a parcel of land containing 2.548 acres up to tie line.

Exhibit D

NOTICE OF AGREEMENT

This Notice is made as of the _____ day of _____, 1995 by the Rochester Gas and Electric Corporation, the fee owner of a parcel of real property located at the foot of the High Falls on the west bank of the Genesee River in the City of Rochester, sometimes known as "Beebee Park," as more particularly described on Appendix "A" attached hereto (the "Property"); and

WHEREAS, there is presently located on the Property coal tar containing hazardous substances, pollutants or contaminants as constituents which the New York State Department of Environmental Conservation ("the Department") alleges may comprise an "inactive hazardous waste disposal site", as that term is defined in Section 27-1301(2) of the Environmental Conservation Law; and

WHEREAS, the Rochester Gas and Electric Corporation, by signature of _____, entered into an administrative Agreement with the Department, Index #D8-0001-95-10 (the "Agreement"), concerning the remediation of the Property, which Agreement was signed by the Commissioner of the New York State Department of Environmental Conservation on _____, 1995; and

WHEREAS, in return for the remediation of the Property pursuant to the Agreement to the satisfaction of the Department, the Department has provided Rochester Gas and Electric Corporation, and its successors, assigns, lessees and sublessees, including their respective secured creditors, with a release and covenant not to sue or bring any action, proceeding, or suit related to the further investigation or remediation based upon the release or threatened release of any hazardous substances, pollutants, wastes and/or contaminants present or existing in, on, at or under the Property as of the date of the Agreement, subject to certain reservations set forth in the Agreement; and

WHEREAS, pursuant to the Agreement, Rochester Gas and Electric Corporation agreed that it would give notice of the Agreements to all parties who may acquire any interest in the Property by filing this Notice with the Monroe County Clerk,

NOW, THEREFORE, Rochester Gas and Electric Corporation for itself, its successors and its assigns declares that:

1. Notice of the Agreement is, hereby, given to all parties who may acquire any interest in the Property.

2. This Notice shall terminate upon the filing by Rochester Gas and Electric Corporation, or its successors and assigns, of a termination of notice of Agreement.

IN WITNESS WHEREOF, Rochester Gas and Electric Corporation has executed this

Notice of Agreement by its duly authorized representative.

Rochester Gas and Electric Corporation

Dated: _____, 1995

By: _____

Its: _____

State of New York)

ss:

County of Monroe)

On this _____ day of _____, 1995, before me personally came _____ to me known, who, being by me duly sworn, did depose and say that s/he resides in _____ County; that s/he is the _____ of Rochester Gas and Electric Corporation, the public utility described herein; and that s/he signed her/his name thereto.

Sworn to before me this _____ day of _____, 1995

_____

Notary Public

Appendix "A"

(to Exhibit "D")

~~Map of Beebee Park Property~~ Description of the Site

Commencing at a point that is the intersection of the east line of Browns Race with the south line of the former Platt Street Bridge. Running thence along the south line of the former Platt Street Bridge, the following three courses, N 44° 27' 59" E a distance of 6.41 feet to a point. Thence N 36° 23" 44" E a distance of 76.83 feet to a point. Thence N 41° 40' 59" E a distance of 10.00 feet to the point of beginning, thence,

1. N 41° 40' 59" E along the south street line of Platt Street Bridge a distance of 345.92 feet to a point on the top of the west bank of the Genesee River, thence

2. South easterly along the top of the river bank to a point on the north foundation wall of Rochester Gas & Electric Corporation's old station no. 2. Said point being S 63° 23' 48" E a distance of 368.50 feet (tie line course) from the previously described point, thence

3. S 46° 40' 11" W a distance of 319.42 feet to a point that is the northeast corner of lands owned, now or formerly, by the City of Rochester, thence

4. S 45° 33' 45" W a distance of 22.50 feet to a point, thence

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11. N 75° 44' 05" W a distance of 74.04 feet to a point in the south line of the former Platt Street Bridge also being the place of beginning, intending to describe a parcel of land containing 2.548 acres up to tie line.

B

APPENDIX B

SITE INVESTIGATION GROUNDWATER DATA
GROUNDWATER MONITORING WELL BORING LOGS
PHASE III GEOPROBE GROUNDWATER SAMPLE RESULTS

Upstate Laboratories inc.

Shipping: 6034 Corporate Dr. • E. Syracuse, NY 13057 • (315) 437-0255 • Fax (315) 437-1209
Mailing: Box 289 • Syracuse, NY 13206
Albany (518) 459-3134
Binghamton (607) 724-0478
Buffalo (716) 662-2118
Rochester (716) 436-9070
New Jersey (201) 703-1324

October 23, 1995

Mr. Kevin Hylton
Rochester Gas & Electric Corp.
Chemical and Environmental Lab
Suntru St.
Rochester, NY 14624

Re: Analysis Report #28995006 - West Station

Dear Mr. Hylton:

Please find enclosed the results for your samples which were received on October 13 and 16, 1995.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
Director

AJS/lw

Enclosure: report

cc/enc: N. Scala, ULI
file

Note: Faxed results were given to your office on 10/17 and 10/18/95. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 10/23/95

Upstate Laboratories, Inc.
Analysis Results
Report Number: 28995006
Client I.D.: ROCHESTER GAS & ELECTRIC CORP. WEST STATION
Sampled by: Client

APPROVAL: _____
QC: _____
Lab I.D.: 10170
MIDWAY BETWEEN PLATT ST BRIDGE & RIVER 10/13/95 G
RAMP 1600H

ULI I.D.: 28995006
Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
TCL Volatiles by EPA Method 8240			
Chloromethane	<3ug/l		VM0786
Bromomethane	<3ug/l		VM0786
Vinyl Chloride	<2ug/l		VM0786
Chloroethane	<3ug/l		VM0786
Methylene Chloride	<3ug/l		VM0786
Acetone	<10ug/l		VM0786
Carbon Disulfide	<3ug/l		VM0786
1,1-Dichloroethene	<3ug/l		VM0786
1,1-Dichloroethane	<3ug/l		VM0786
trans-1,2-Dichloroethene	<3ug/l		VM0786
cis-1,2-Dichloroethene	<3ug/l		VM0786
Chloroform	<3ug/l		VM0786
1,2-Dichloroethane	<3ug/l		VM0786
2-Butanone	<10ug/l		VM0786
1,1,1-Trichloroethane	<3ug/l		VM0786
Carbon Tetrachloride	<3ug/l		VM0786
Bromodichloromethane	<3ug/l		VM0786
1,2-Dichloropropane	<3ug/l		VM0786
cis-1,3-Dichloropropene	<3ug/l		VM0786
Trichloroethene	<3ug/l		VM0786
Dibromochloromethane	<3ug/l		VM0786
1,1,2-Trichloroethane	<3ug/l		VM0786
Benzene	<3ug/l		VM0786
trans-1,3-Dichloropropene	<3ug/l		VM0786
Bromoform	<3ug/l		VM0786
4-Methyl-2-pentanone	<10ug/l		VM0786
2-Hexanone	<10ug/l		VM0786
Tetrachloroethene	<3ug/l		VM0786
1,1,2,2-Tetrachloroethane	<3ug/l		VM0786
Toluene	<3ug/l		VM0786
Chlorobenzene	<3ug/l		VM0786
Ethylbenzene	<3ug/l		VM0786
Styrene	<3ug/l		VM0786
m-Xylene and p-Xylene	<3ug/l		VM0786
o-Xylene	<3ug/l		VM0786

DATE: 10/23/95

Upstate Laboratories, Inc.
Analysis Results
Report Number: 28995006
Client I.D.: ROCHESTER GAS & ELECTRIC CORP. WEST STATION
Sampled by: Client

APPROVAL: _____
QC: _____
Lab I.D.: 10170
MIDWAY BETWEEN PLATT ST BRIDGE & RIVER 10/16/95 G
RAMP 1605H

ULI I.D.: 29095011 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
EPA Method 625, Acid Extractables			
2-Chlorophenol	<5ug/l		SA0709
2,4-Dichlorophenol	<5ug/l		SA0709
2,4-Dimethylphenol	<5ug/l		SA0709
2-Methyl-4,6-dinitrophenol	<50ug/l		SA0709
2,4-Dinitrophenol	<50ug/l		SA0709
2-Nitrophenol	<5ug/l		SA0709
4-Nitrophenol	<50ug/l		SA0709
4-Chloro-3-methylphenol	<5ug/l		SA0709
Pentachlorophenol	<10ug/l		SA0709
Phenol	<5ug/l		SA0709
2,4,6-Trichlorophenol	<5ug/l		SA0709
EPA Method 625, Base/Neutral Ext.			
Acenaphthene	<5ug/l		SA0709
Acenaphthylene	<5ug/l		SA0709
Anthracene	<5ug/l		SA0709
Benzidine	<50ug/l		SA0709
Benzo(a)anthracene	<5ug/l		SA0709
Benzo(a)pyrene	<5ug/l		SA0709
Benzo(b)fluoranthene	<5ug/l		SA0709
Benzo(ghi)perylene	<5ug/l		SA0709
Benzo(k)fluoranthene	<5ug/l		SA0709
bis(2-Chloroethoxy)methane	<5ug/l		SA0709
bis(2-Chloroethyl)ether	<5ug/l		SA0709
bis(2-Chloroisopropyl)ether	<5ug/l		SA0709
bis(2-Ethylhexyl)phthalate	<5ug/l		SA0709
4-Bromophenylphenylether	<5ug/l		SA0709
Butylbenzylphthalate	<5ug/l		SA0709
2-Chloronaphthalene	<5ug/l		SA0709
4-Chlorophenylphenylether	<5ug/l		SA0709
Chrysene	<5ug/l		SA0709
Dibenzo(a,h)anthracene	<5ug/l		SA0709
1,2-Dichlorobenzene	<5ug/l		SA0709
1,3-Dichlorobenzene	<5ug/l		SA0709
1,4-Dichlorobenzene	<5ug/l		SA0709
3,3'-Dichlorobenzidine	<5ug/l		SA0709
Diethylphthalate	<5ug/l		SA0709
Dimethylphthalate	<5ug/l		SA0709
di-n-butylphthalate	<5ug/l		SA0709
2,4-Dinitrotoluene	<5ug/l		SA0709

DATE: 10/23/95

Upstate Laboratories, Inc.
Analysis Results
Report Number: 28995006
Client I.D.: ROCHESTER GAS & ELECTRIC CORP. WEST STATION
Sampled by: Client

APPROVAL:
QC:
Lab I.D.: 10170
MIDWAY BETWEEN PLATT ST BRIDGE & RIVER 10/16/95 G
RAMP 1605H

ULI I.D.: 29095011 Matrix: Water

PARAMETERS	RESULTS	KEY	FILE#
2,6-Dinitrotoluene	<5ug/l		SA0709
di-n-octylphthalate	<5ug/l		SA0709
1,2-Diphenylhydrazine	<5ug/l		SA0709
Fluoranthene	<5ug/l		SA0709
Fluorene	<5ug/l		SA0709
Hexachlorobenzene	<5ug/l		SA0709
Hexachlorobutadiene	<5ug/l		SA0709
Hexachlorocyclopentadiene	<5ug/l		SA0709
Hexachloroethane	<5ug/l		SA0709
Indeno(1,2,3-cd)pyrene	<5ug/l		SA0709
Isophorone	<5ug/l		SA0709
Naphthalene	<5ug/l		SA0709
Nitrobenzene	<5ug/l		SA0709
n-Nitrosodimethylamine	<5ug/l		SA0709
n-Nitrosodi-n-propylamine	<5ug/l		SA0709
n-Nitrosodiphenylamine	<5ug/l		SA0709
Phenanthrene	<5ug/l		SA0709
Pyrene	<5ug/l		SA0709
1,2,4-Trichlorobenzene	<5ug/l		SA0709

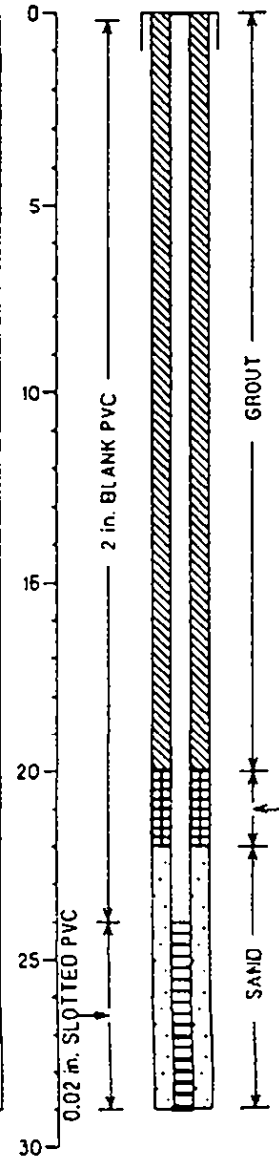
WELL MW-101S

Page 1 of 1

PROJECT: RG&E
PROJECT NO: 1734-05-09
LOCATION: N/A
DATE STARTED: 8-11-93
DATE COMPLETED: 8-11-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM.: NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)	WELL CONSTRUCTION
				Augered to 29 feet; no odors or visual contam. in spoils							0	
											5	
											10	
											15	
											20	
											25	
				End of boring at 29.0 feet.							30	



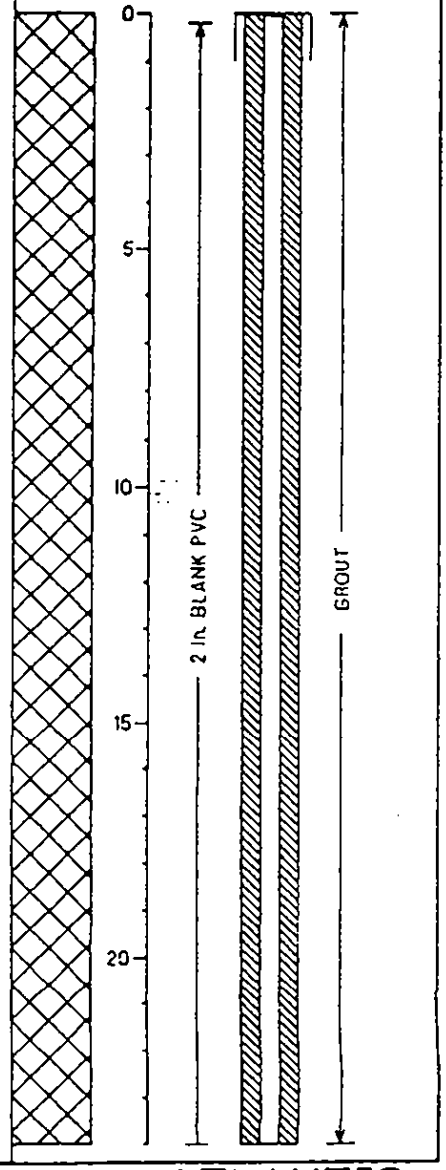
ATLANTIC

WELL MW-101D

PROJECT: RG&E
PROJECT NO: 1734-05-09
LOCATION: UPGRADE OF "AREA B"
DATE STARTED: 8-9-93
DATE COMPLETED: 8-9-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: BOB RUSSO

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS
0-2	20,42 29,18	85	0	Dark gray silty SAND with cobbles and pebbles, trace coal, trace brick, no odor, FILL					
2-4	7,9 8,7	50	0						
4-6	8,5 8,14	70	0	Becomes moist					
6-8	11,7 4,5	66	0	Brown SILT with little clay, little sand, trace brick, moist, no odor, FILL					
8-10	3,3 4,6	70	0	Brown with gray mottling, silty CLAY with little sand, moist, no odor, no sheen, FILL					
10-12	5,18 12,20	85	0	Dark brown very fine SAND, trace slag, moist, no odor, FILL					
12-14	14,10 11,8	75	0	Cobble-sized coke fragment Brown, fine SAND, little coke, little slag, little pebbles, moist, no odor, no sheen, FILL					
14-16	3,3 9,8	66	0						
16-18	3,3 5,4	6	0	Angular COBBLES and PEBBLES, little sand, moist, no odor, FILL					
18-20	12,12 14,20	66	0	Trace clay					
20-22	12,20 19,10	70	0						
22-24	18,18 12,18	60	0						



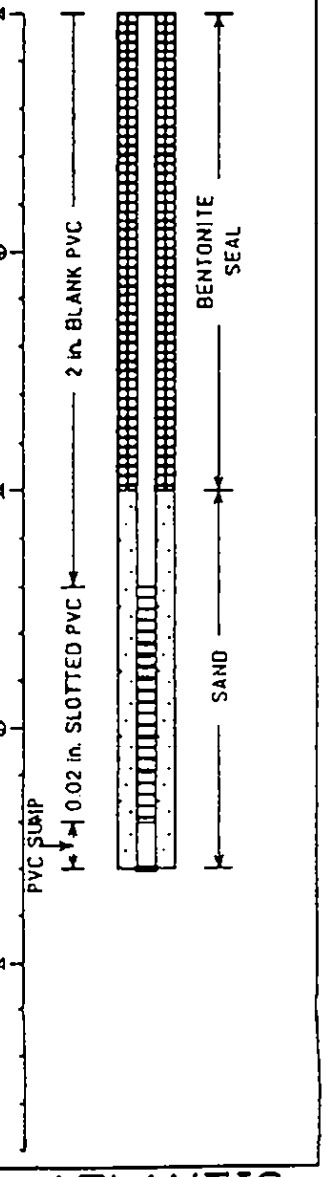
ATLANTIC

WELL MW-101D

PROJECT: RGSE
PROJECT NO: 1734-05-09
LOCATION: UPGRADE OF "AREA B"
DATE STARTED: 8-9-93
DATE COMPLETED: 8-9-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: BOB RUSSO

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL admixture, moisture, other notes, ORIGIN	VISUAL CONTAM.: NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)	WELL CONSTRUCTION
24-26	23,20 17,14	80	1	Angular COBBLES and PEBBLES, little gray clay, trace sand, trace silt, no odor, no sheen, FILL							24	
				Becomes wet								
26-28	8,12 17,14	75	0									
28-30	7,14 17,24	80	0	COBBLES and PEBBLES, little sand, wet, no odor, no sheen, FILL							28	
30-32	16,16 20,18	86	0	Compact COBBLES and PEBBLES, some sand, little clay, trace silt, wet, no odor, no sheen								
32-34	14,34 15,14	5	0									
34-36	12,18 32,20	46	0	Dark gray coarse SAND with pebbles, wet, slight petroleum odor							34	
36-38	15,50/0.3'	5	0									
38-38	10,18 50/0.4'	40	0								38	
40-41	28,50/0.5'	10	0	SHALE FRAGMENTS, trace sand, wet, petroleum odor								
				Auger refusal; roller bit to 42 feet								
				End of boring at 42.0 feet.							44	



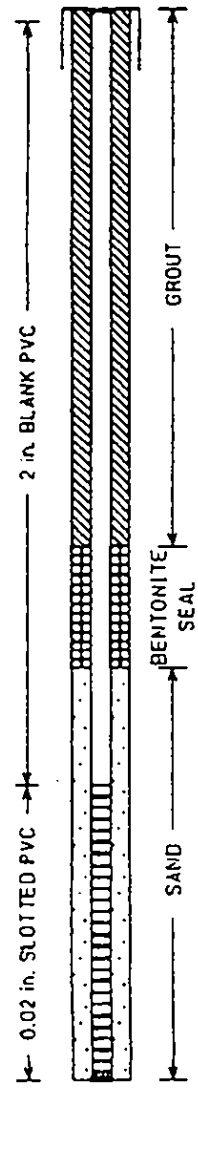
ATLANTIC

WELL MW-102S

PROJECT: RG&E
PROJECT NO: 1734-06-08
LOCATION: N/A
DATE STARTED: 8-11-93
DATE COMPLETED: 8-11-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)	WELL CONSTRUCTION
				Augered to 18 feet; no odors or visual contam. in spoils							0	
											5	
											10	
											15	
				End of boring at 16.0 feet.								



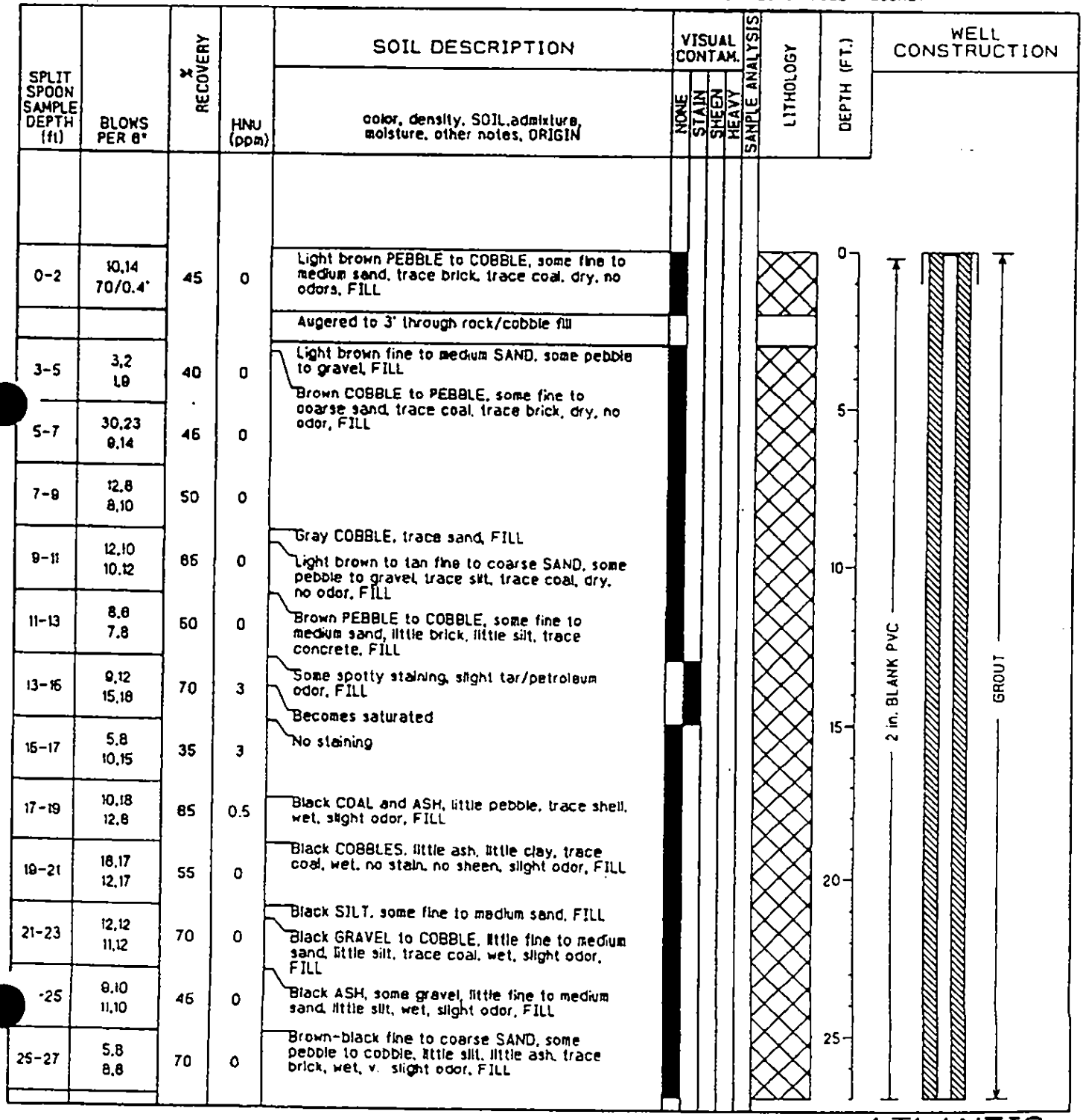
ATLANTIC

WELL MW-102D

PROJECT: RG&E
PROJECT NO: 1734-06-08
LOCATION: N/A
DATE STARTED: 8-10-93
DATE COMPLETED: 8-10-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL admixture, moisture, other notes, ORIGIN	VISUAL CONTAM.: NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS
0-2	10,14 70/0.4'	45	0	Light brown PEBBLE to COBBLE, some fine to medium sand, trace brick, trace coal, dry, no odors, FILL	■				
				Augered to 3' through rock/cobble fill					
3-5	3,2 1,9	40	0	Light brown fine to medium SAND, some pebble to gravel, FILL Brown COBBLE to PEBBLE, some fine to coarse sand, trace coal, trace brick, dry, no odor, FILL	■				
5-7	30,23 9,14	46	0		■				
7-9	12,8 8,10	50	0		■				
9-11	12,10 10,12	65	0	Gray COBBLE, trace sand, FILL Light brown to tan fine to coarse SAND, some pebble to gravel, trace silt, trace coal, dry, no odor, FILL	■				
11-13	8,8 7,8	60	0	Brown PEBBLE to COBBLE, some fine to medium sand, little brick, little silt, trace concrete, FILL	■				
13-15	9,12 15,18	70	3	Some spotty staining, slight tar/petroleum odor, FILL Becomes saturated	■				
15-17	5,8 10,15	35	3	No staining	■				
17-19	10,18 12,8	85	0.5	Black COAL and ASH, little pebble, trace shell, wet, slight odor, FILL	■				
19-21	18,17 12,17	55	0	Black COBBLES, little ash, little clay, trace coal, wet, no stain, no sheen, slight odor, FILL	■				
21-23	12,12 11,12	70	0	Black SILT, some fine to medium sand, FILL Black GRAVEL to COBBLE, little fine to medium sand, little silt, trace coal, wet, slight odor, FILL	■				
23-25	8,10 11,10	45	0	Black ASH, some gravel, little fine to medium sand, little silt, wet, slight odor, FILL	■				
25-27	5,8 8,8	70	0	Brown-black fine to coarse SAND, some pebble to cobble, little silt, little ash, trace brick, wet, v. slight odor, FILL	■				



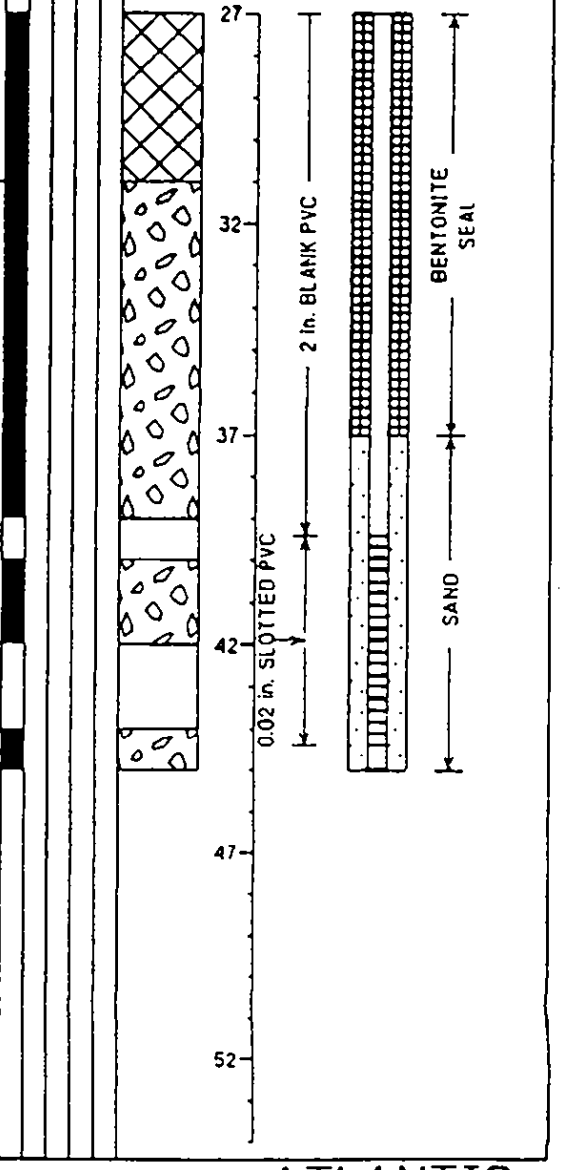
ATLANTIC

WELL MW-102D

PROJECT: RGGE
PROJECT NO: 1734-06-09
LOCATION: N/A
DATE STARTED: 8-10-93
DATE COMPLETED: 8-10-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. / SAMPLE ANALYSIS: NONE / STAIN / SHEEN / HEAVY
27-29	8,10 9,8	80	0	Gray-black well-rounded GRAVEL, some fine to medium sand, wet, v. slight odor, FILL	
29-31	14,22 22,22	35	0	Dark gray PEBBLE to COBBLES, little fine sand, trace silt, trace brick, wet, slight odor, FILL	
31-33	14,16 26,27	50	0	Gray GRAVEL, little fine to coarse sand, trace clay, wet, v. slight odor	
33-35	17,12 18,23	30	0		
35-37	48,38 28,31	50	0	Dark brown COBBLES, little fine to medium sand, little gravel, trace clay, wet, slight odor	
37-39	38,40 50,50/0.1'	40	0		
40-42	38,36 24,32	40	0	Brown COBBLES, little clay, trace sand, trace pebbles, wet, no odor	
42-44	57,38 20,50/0.1'	0		No Recovery	
44-45	16,40 50/0.4'	40	0	Brown well-rounded GRAVEL, some clay, little sand, wet no odor	
				End of boring at 45.0 feet.	



ATLANTIC

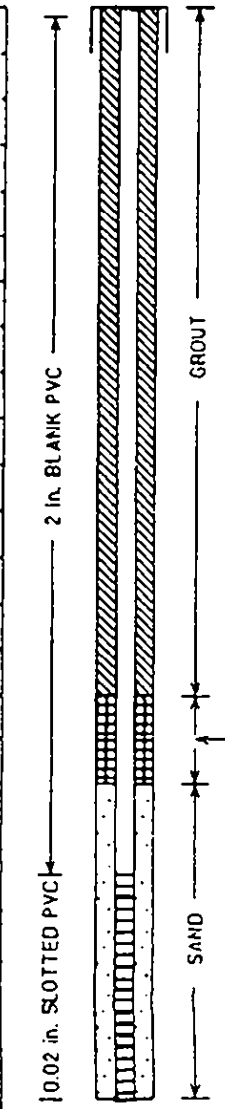
WELL MW-103

PROJECT: RG&E
PROJECT NO: 1734-06-09
LOCATION: N/A
DATE STARTED: 8-11-93
DATE COMPLETED: 8-11-93
DRILLING CONTRACTOR: NORTH STAR DRILLING
DRILLER: DAVE LYONS

DRILLING METHOD: 4 1/4" HOLLOW STEM AUGER
SAMPLING METHOD: 2"x24" & 3"x24" SPLIT SPOONS
GROUND ELEVATION: N/A
WELL ELEVATION: N/A
WATER TABLE ELEVATION: N/A
DATUM: N/A
INSPECTOR: ROBERT COONEY

SPLIT SPOON SAMPLE DEPTH (ft)	BLOWS PER 6"	% RECOVERY	HNU (ppm)	SOIL DESCRIPTION: color, density, SOIL, admixture, moisture, other notes, ORIGIN	VISUAL CONTAM. NONE	STAIN	SHEEN	HEAVY	SAMPLE ANALYSIS	LITHOLOGY	DEPTH (FT.)
				Augered to 15 feet.							0
15-17	WOR,1 1,1	50	0	Black ASH and SLAG, dry, no odor, FILL							15
17-19	1,2 1,2	45	0	Trace coal							
19-21	1,2 1,1	40	0								20
				Augered to 24 feet							
				End of boring at 24.0 feet.							25

WELL CONSTRUCTION



ATLANTIC

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

10/18 HDD

Client: RG+E

Client Project # / Project Name: WEST STATION

Client Contact: Kevin Hylton

Phone # 724-8428 FAX-724-8683 Cell-733-6308

Site Location (city/state): Rochester

Special Turnaround Time 24 hr. (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
Midway between Platt St. Bridge + River RAMP	10/16/95	1605	Groundwater	Grab	29095011	(2)	X										Fax results to Kevin Hylton

parameter and method	sample bottle: type	size	pres.
1) 625 Base Neutrals/Acid Extractables on	Gl.	1l	Ref.
2) Water fraction only (See Tony Scala)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) Kevin Hylton

Company: RG+E

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☐ CC _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Kevin Hylton	10/16/95	1430	Kim Ferguson
Kim Ferguson	10/16/95	1700	
	10/17/95	9:45 AM	
	10/17/95	10:00 AM	

Received by: (Signature)

Rec'd for Lab by: (Signature) C Nagdeman

Syracuse (Rochester) Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

10/17 #02

| Client: RG&E | Client Project # / Project Name: West Station | | |

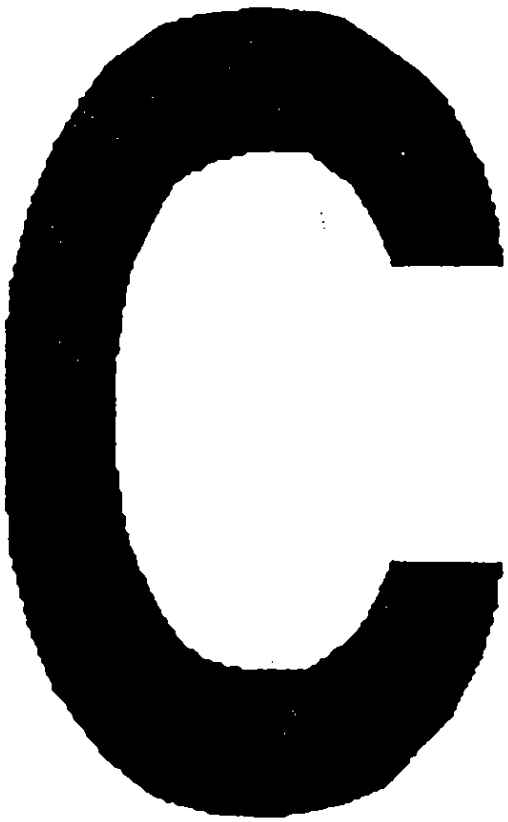
RG&E WEST STATION
GROUND WATER ANALYTICAL RESULTS

Analyte	MW51	MW38	MW138	CST–1	P–1	P–32
Cyanide, Total	ND	ND	ND	0.041mg/L	0.032mg/L	0.081mg/L
Aluminum (Al)	0.023mg/L	0.057mg/L	0.060mg/L	0.29mg/L	0.030mg/L	0.024mg/L
Antimony (Sb)	ND	ND	ND	ND	ND	ND
Arsenic (As)	ND	0.0053mg/L	0.0055mg/L	0.0071mg/L	0.0033mg/L	0.0021mg/L
Barium (Ba)	0.12mg/L	0.12mg/L	0.12mg/L	0.12mg/L	0.044mg/L	0.064mg/L
Beryllium (Be)	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND	ND	ND
Calcium (Ca)	61mg/L	92mg/L	88mg/L	160mg/L	97mg/L	240mg/L
Chromium (Cr)	ND	ND	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND	ND	ND
Copper (Cu)	ND	0.016mg/L	ND	0.0086mg/L	0.0064mg/L	ND
Iron (Fe)	0.51mg/L	1.3mg/L	1.3mg/L	11mg/L	3.8mg/L	0.20mg/L
Lead (Pb)	0.0067mg/L	0.0067mg/L	0.0031mg/L	ND	0.0035mg/L	ND
Magnesium (Mg)	23mg/L	25mg/L	24mg/L	41mg/L	17mg/L	270mg/L
Manganese (Mn)	0.24mg/L	0.29mg/L	0.29mg/L	2.0mg/L	0.48mg/L	0.54mg/L
Mercury (Hg)	ND	ND	ND	ND	ND	ND
Nickel (Ni)	ND	0.0086mg/L	ND	0.0071mg/L	0.010mg/L	0.018mg/L
Potassium (K)	4.6mg/L	3.9mg/L	3.7mg/L	5.4mg/L	3.9mg/L	17mg/L
Selenium (Se)	ND	ND	ND	ND	ND	ND
Silver (Ag)	ND	ND	ND	ND	0.0050mg/L	ND
Sodium (Na)	91mg/L	76mg/L	73mg/L	48mg/L	86mg/L	360mg/L
Thallium (Tl)	ND	ND	ND	ND	ND	ND
Vanadium (V)	ND	ND	ND	ND	ND	ND
Zinc (Zn)	0.014mg/L	0.019mg/L	0.015mg/L	0.011mg/L	0.017mg/L	0.0099mg/L
Acetone	ND	ND	ND	13ug/L	ND	ND
Benzene	ND	ND	ND	12ug/L	17ug/L	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND
2–Butanone (MEK)	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
2–Chloroethylvinyl ether	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2–Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3–Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4–Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1–Dichloroethane	ND	ND	ND	ND	ND	ND
1,2–Dichloroethane	ND	ND	ND	ND	ND	ND
1,1–Dichloroethene	ND	ND	ND	ND	ND	ND
trans–1,2–Dichloroethene	ND	ND	ND	ND	ND	ND
1,2–Dichloropropane	ND	ND	ND	ND	ND	ND
cis–1,3–Dichloropropene	ND	ND	ND	ND	ND	ND
trans–1,3–Dichloropropene	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	10ug/L	ND	ND
2–Hexanone	ND	ND	ND	ND	ND	ND
4–Methyl–2–pentanone (MIBK)	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	6ug/L	ND
1,1,2,2–Tetrachloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	8ug/L	22ug/L	ND
1,1,1–Trichloroethane	ND	ND	ND	ND	ND	ND
1,1,2–Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
m–Xylene	ND	ND	ND	15ug/L	22ug/L	ND
o–Xylene	ND	ND	ND	* ug/L	* ug/L	ND
p–Xylene	ND	ND	ND	* ug/L	* ug/L	ND

RG&E WEST STATION
GROUND WATER ANALYTICAL RESULTS

Analyte	MW51	MW38	MW138	CST–1	P–1	P–32
Acenaphthene	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	90ug/L	100ug/L	ND
Anthracene	ND	ND	ND	ND	50ug/L	ND
Benzo(a)Anthracene	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)Perylene	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	ND	ND-	ND	ND	ND	ND
Benzyl Alcohol	ND	ND	ND	ND	ND	ND
4–Bromophenyl–phenylether	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND	ND	ND
4–Chloroaniline	ND	ND	ND	ND	ND	ND
bis(2–Chloroethoxy)Methane	ND	ND	ND	ND	ND	ND
bis(2–Chloroethyl)Ether	ND	ND	ND	ND	ND	ND
bis(2–Chloroisopropyl)Ethe	ND	ND	ND	ND	ND	ND
2–Chloronaphthalene	ND	ND	ND	ND	ND	ND
4–Chlorophenyl–phenylether	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND
Di–n–Butylphthalate	ND	ND	ND	ND	ND	ND
Di–n–Octyl Phthalate	ND	ND	ND	ND	ND	ND
Dibenz(a,h)Anthracene	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	70ug/L	50ug/L	ND
1,2–Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,3–Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4–Dichlorobenzene	ND	ND	ND	ND	ND	ND
3,3'–Dichlorobenzidine	ND	ND	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	ND	ND	ND	ND	ND	ND
2,4–Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,6–Dinitrotoluene	ND	ND	ND	ND	ND	ND
bis(2–Ethylhexyl)Phthalate	ND	ND	ND	ND	ND	22ug/L
Fluoranthene	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	80ug/L	50ug/L	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Indeno(1,2,3–cd)Pyrene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	ND
2–Methylnaphthalene	ND	ND	ND	200ug/L	100ug/L	ND
N–Nitroso–di–n–Propylamine	ND	ND	ND	ND	ND	ND
N–Nitrosodimethylamine	ND	ND	ND	ND	ND	ND
N–Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	1800ug/L	1300ug/L	ND
2–Nitroaniline	ND	ND	ND	ND	ND	ND
3–Nitroaniline	ND	ND	ND	ND	ND	ND
4–Nitroaniline	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	100.ug/L	50ug/L	ND
Pyrene	ND	ND	ND	ND	ND	ND
1,2,4–Trichlorobenzene	ND	ND	ND	ND	ND	ND

* The entries for m–Xylene represent the total of m, o, and p–Xylene



APPENDIX C

WEST STATION COMMUNITY OUTREACH PROGRAM

1. PHASE I EXECUTIVE SUMMARY
2. PHASE II PROGRAM
3. PHASE III EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

The Center for Environmental Information (CEI) developed and implemented a community outreach program to assist the Rochester Gas and Electric Corporation (RG&E) with public communication about the interim remediation of a site, known to contain coal tar and oil, located adjacent to RG&E's former West Station manufactured gas plant (MGP) in Rochester, N.Y. CEI provided public information services and environmental communications consultation from June 5, 1992 until July 2, 1993. The periods of greatest project activity occurred prior to and during remediation at the site (June to September, 1992) and surrounding the announcement of plans to further study the site (February and March, 1993) and suspend additional remediation work at the site (June, 1993).

CEI's role was to:

- Assist RG&E with conveying and communicating information to the public
- Provide a means to address public concerns regarding the site and clean-up
- Serve as an independent, community organization, not a spokes person for RG&E

Goals of the Community Outreach Program were:

- Assist RG&E with communication of risks associated with the site and the planned remediation process
- Create a dialogue between RG&E and the public
- Assist RG&E with dissemination of information to the public about current site use and the planned remediation process
- Build trust and credibility in the communication strategy

Outcomes:

- based on information available and feedback received, achievement of program goals
- establishment of channels for the public to provide comment and feedback on the remediation project
- identification of public concerns through use of feedback from a steering committee, independent technical consultants, and CEI staff
- little media or public expression of concern or interest in the remediation project - determined by low usage of CEI information services, no letters to the editor, no calls of concern to RG&E, and minimal media coverage
- creation of an outreach program model that served as framework for all project communication activities and brought continuity and consistency to the communication process
- a tested communication strategy that can be built upon for future RG&E environmental investigation and remediation activities
- increased availability of information on RG&E MGP remediation efforts as a result of media contacts, steering committee meetings, and CEI information services

COMMUNITY OUTREACH PROGRAM

ROCHESTER GAS AND ELECTRIC CORPORATION

February 1, 1994

Designed by

Frances S. Gotcsik
7364 East Main Street
Lima, NY 14485
(716) 624-2484

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I. Current Situation

In July, 1992, Rochester Gas and Electric Corporation (RG&E) began interim remediation of a site, known to contain coal tar and oil, located adjacent to RG&E's former West Station manufactured gas plant (MGP) in Rochester, NY. Excavation of 9000 tons of soil from Area A of the site occurred from July to September, 1992. Further testing of soils in the previously unexcavated Area B took place during March and April of 1993. In June, 1993, RG&E decided to suspend interim remediation and investigation activities for Area B pending further study of alternatives for treatment and disposal of soils containing coal tars and the expected introduction of a cost effective and environmentally sound clean-up technology in 1994. RG&E's decision was also based on the presence of minimal risk to the public and the Genesee River ecosystem from materials remaining at the site.

Beginning February, 1994, RG&E intends to commence a pilot project designed to test two different experimental soil treatment technologies that could be used to address the MGP wastes remaining at the site. Testing of both technologies will involve removal and screening of soil from Area B to generate material less and greater than .75 inches diameter.

The first treatment technology will be tested by adding the less than .75 inch diameter soils to the normal coal feed stock at the adjacent Beebee Station electric generating plant. Results of test burns with this material will be analyzed to determine suitability for large scale use of the technique.

The remaining excavated soil of particle size greater than .75 inches diameter will be utilized in testing two different soil washing techniques. Soil will be transported to two off site locations for testing each procedure. Results of tests of the two soil washing techniques will be reviewed, in conjunction with the results of other ongoing research, to determine their feasibility as a remediation alternative.

Based on the performance results for West Station soil when subjected to these experimental procedures, RG&E will decide upon the time frame and nature of further full-scale remediation activities at the site. The pilot project is expected to take approximately six months.

RG&E wishes to continue its program of proactive, open, two-way public communication of information about the site, the remediation processes being investigated, and the risks to human health and the environment associated with the site and planned procedures. RG&E has solicited this proposal for development of a communications and public involvement program that satisfies these goals.

II. Community Outreach Program Goals and Objectives

Goals

- Disseminate information about the site and the planned soil treatment technologies
- Communicate the human health and environmental risk associated with the site and the treatment technologies
- Create a dialogue between RG&E and the public
- Build trust and credibility in the communication strategy

Objectives

- Provide all interested parties with the information they need to make their own decisions regarding the site and the impact on their activities related to the site.
- Provide an opportunity, where appropriate, for all interested parties to impact the project.
- Allow independent technical consultants to offer additional information, interpretation, and project review that can be disseminated to the public.
- Respond to media inquiries in a timely fashion with the most accurate information.
- Ensure that feedback from the general public reaches and is given consideration by appropriate RG&E personnel.

This phase of the community outreach program will be considered successful if the goals and objectives are met whether or not that includes the public's total agreement with RG&E's decisions. *Furthermore, in evaluating program success, it should be noted that successful communication and public involvement strategies may also be manifested as a lack of public outcry or concern.*

III. Community Outreach Program Communication Strategy

A. Audience Identification

The list of audiences identified for prior phases of the project will be reviewed for alterations, additions or deletions due to changes in the nature of the neighborhood or types of activities included in the project. Assistance with audience identification will also be sought from RG&E personnel and the steering committee.

B. Channels of Communication

Channels of communication will be identified for every audience. Channel selection for identified audiences developed for prior phases of the project will be reviewed for alterations, additions or deletions. Input will be sought from RG&E personnel and the steering committee as to channel identification and selection.

Previously employed channels that will be continued:

1. Press releases

All print and electronic media contacts will be supplied with a press release and fact sheet at the time of project announcements. Fact sheets will be succinct, but provide project background and current status information that supplements that found in the press release. Press releases will be prepared when project events dictate, but are two are presently scheduled - prior to announcement of this phase of the project and after evaluation of the test burn and soil washing techniques are complete.

2. Informal meetings with selected Gannett reporter(s)

3. Media conferences

Coincident with the initial public announcement and after evaluation of the test burn and soil washing techniques is complete, RG&E will conduct a media conference at the site. Such meetings will allow the local print and electronic media the opportunity to familiarize themselves with the site, film or photograph the area, hear short presentations about the project, and ask questions of the corporate spokesperson and Mr. Hylton. Depending on the level of interest, other media conferences may be scheduled during the course of the project.

4. RG&E wire services

RG&E's standard distribution list of weekly newspapers and nonlocal newspapers, TV and radio contacts will be reached through this communication channel.

5. Project information centers

Project information centers will be established at the Center for Environmental Information, Inc. and the Rundel Public Library. These centers will contain project work plans, final or interim reports of 1992 and 1993 site activities, copies of fact sheets, an updated copy of the resource guide, and selected handouts on MGP plants in general. Materials will be updated, if required, through the course of the project.

6. Public information telephone line

A telephone number will be provided for anyone to call for more project information. A caller to the number will hear a periodically updated, short telephone message giving information about the project and asking the caller to leave a message either with a telephone number or address, if they would like a copy of the project fact sheets. The caller will be assured that they will receive a return call as soon as possible. The message will also tell the caller where they can access project documents. Ms. Gotcsik will respond to calls but seek the assistance of RG&E's Kevin Hylton and the technical consultants where appropriate.

7. Personal letters

Residents of the immediate neighborhood will receive a letter and fact sheet describing the project prior to the start of work at the site.

8. Informational sign on the Pont de Rennes Bridge

The sign will inform those using the bridge that RG&E is beginning an additional phase of work and briefly describe the nature of and reason for the work, the date when this phase of the project will be complete, the telephone number to contact for more information, and the location of project information centers.

9. Presentations to Groups

RG&E will make presentations of project information to groups who express an interest in learning more about the project.

10. Steering Committee

Members will serve to relay information to their representative groups and other members of the community with whom they have contact.

Members of the steering committee formed for the previous two phases of the project will be asked to reconvene to hear about the project plans, provide input, assist with communication strategy development, and advise on public response to the project plans before public announcement of this phase of the project. Consideration will be given to increasing membership to reflect additional related interests such as the Genesee River Alliance and the black and Hispanic communities.

It is anticipated that the steering committee will meet prior to the announcement of the start of the project and when the results of the test burn and evaluation of the soil washing techniques are known. At the initial meeting, the steering committee will discuss when and if additional meetings should be held.

Meetings of the steering committee will be convened, facilitated and summarized by Ms. Gotcsik. All members will receive copies of the meeting summaries and project fact sheets.

11. Employee newsletter and/or information distribution system

Information concerning restart of the project and periodic project updates will be distributed through RG&E's internal communication systems including its bulletin board system posted by elevators and its electronic information system.

12. Elected and other governmental officials meetings and/or telephone calls

RG&E personnel will contact selected governmental representatives, health and safety and transportation personnel prior to public announcement of this phase of the project.

13. Public meetings

Public informational meetings to present project information or address issues of concern will be held if the level of interest and concern, as registered by calls to the hotline, calls to RG&E, letters to the editor, or calls to local talk shows, warrant. Advice from the steering committee will also be sought as to whether public meetings may be necessary. Fact sheets will be made available, all comments recorded on flip charts, and a summary of the meeting prepared and distributed to all in attendance.

C. Identification of public concerns

Those assisting RG&E personnel and the public involvement consultant with identification of public concerns will include:

1. Steering Committee

2. RG&E Employees

Meetings with Beebee Station employees will provide an opportunity for Kevin Hylton to provide project information and gather feedback on concerns or suggestions that the most affected group of employees may have regarding the project. Two such meetings are planned, prior to the start of the project work and after evaluation of the results of the test burn soil washing techniques is complete. RG&E Outreach and Education Initiative representatives will also provide input based on their knowledge of and interaction with the RG&E customer base.

3. Risk communication and technical consultants

A risk communication consultant and technical consultants familiar with aspects of the project will be asked to review project information, provide comments regarding scientific aspects of the work, identify issues that may be of concern to the public, and provide advice in case of an unexpected event. Utilization of the services of such consultants will be carried out on an as needed basis.

Other means by which public concerns will be identified include:

1. Comments and questions from the Brown' s Race Neighborhood Association, from callers to the public information telephone, or from anyone responding to project information will be encouraged and may provide valuable insight into issues of importance to the public.

2. Records of calls to CEI during the 1992 and 1993 project phases will be reviewed as they define the nature of previously expressed public concern.

3. A report of each call to the public information service telephone line will be made, detailing the nature of the information request or concern expressed. A reporting form similar to that used for the 1992 and 1993 phases of the work will be used. Copies of all

reports will be supplied to Kevin Hylton, RG&E corporate communications, and Outreach and Education Department.

D. Message Development and Delivery

Messages will be tailored to audiences and their information needs and will reflect feedback from the steering committee and any public comments received throughout the course of the project. Identification of public concerns will be vital as it is imperative that messages acknowledge and address these concerns.

Message development will be based on establishing the three most important things RG&E wishes the audience to learn, the three things the audience would like to know, and the three things the audience will probably get wrong unless they are stressed.

Messages will be communicated using:

1. fact sheets

Two versions will be developed. One will be one page(both sides) with basic project information presented in bullet form. Another version will include several sheets addressing specific topics in greater detail such as background information on the site, review of 1992 and 1993 activities and findings, background information on manufactured gas plant wastes, as well as greater detail on the present project activities and experimental technologies. All sheets will be included in the press packets and made available to the public at the document repositories, at any public meetings or meetings with specific groups, and by request relayed through the information hotline. Steering committee members and technical consultants will also receive copies of the fact sheets.

The one-page version of the fact sheet will be distributed with the neighbors' letter, the press releases, and in visits or follow ups to calls to elected or other governmental and health and safety officials. Fact sheets will be prepared prior to the beginning of this phase of the project and when results of the test burn and evaluation of the soil washing techniques are known. If necessary, updates of the one-page version will be prepared to accompany subsequent project press releases.

2. informational sign on the Pont de Rennes bridge

3. press releases

4. public information telephone hotline

5. public presentations

Messages will include:

- background information, refreshing the public memory of previous project activities and the experimental technologies
- project information - what will take place at the site, Beebee Station, and offsite
- identification of areas where there is an opportunity for public input
- health and environmental risks of the site and the experimental technologies
- project time schedule
- site map
- public information telephone number
- location of the public information centers
- results of the test burn and evaluation of the soil washing techniques
- future plans for the site (if known)

D. Contingency Plans

Responsibilities of involved parties will be well defined to avoid confusion and inaction because of uncertainty as to who is in control and who should be involved. While the exact nature of such occurrences can never be predicted, consideration of possible scenarios and responses involving a communication crisis or crisis at the site will enhance preparedness.

E. Evaluation

The community outreach program will be evaluated at the conclusion of the project based on whether the goals and objectives established at the outset have been met. A lessons learned and suggestions for future communication efforts section will be included in the final report.

Opportunities for surveying public response and interest will be exploited when present. Steering committee members will be surveyed for their assessment of the value and functioning of their group as well as the effectiveness of the overall communication strategy. A survey instrument will be developed that can be distributed at the close of a public informational meeting or meeting with a special group such as the Brown's Race Neighborhood Association, and included with any information sent to those calling the hotline. In returning calls to those accessing the public information telephone line, callers will be asked one or two questions about whether they found the system acceptable and whether they felt their questions had been adequately addressed. Media coverage will be monitored and a standardized form developed to ensure comprehensive and consistent evaluation of reports. The number and nature of the calls to the public information telephone line or RG&E will be analyzed to further determine the effectiveness of the communication program.

F. Project Management

Status reports, including copies of telephone records, will be prepared for Mr. Hylton and RG&E corporate communications personnel. Timelines and list of tasks to be completed, including parties responsible, will be prepared and updated as the project progresses in order to define and confirm responsibilities of all involved individuals.

- acknowledged enhanced understanding of RG&E environmental programs and MGP remediation efforts by a small number of special interest groups and some media representatives
- establishment of a dialogue between RG&E and representatives of a few special interest groups
- strong commitment by a steering committee to continue participation in future RG&E communication efforts
- establishment of a working relationship and development of project-specific understanding with four independent technical consultants and two risk communication consultants
- risk communication training for CEI staff and RG&E communications and technical personnel that can be applied to other projects
- addition of MGP-related resources to the CEI library

EXECUTIVE SUMMARY

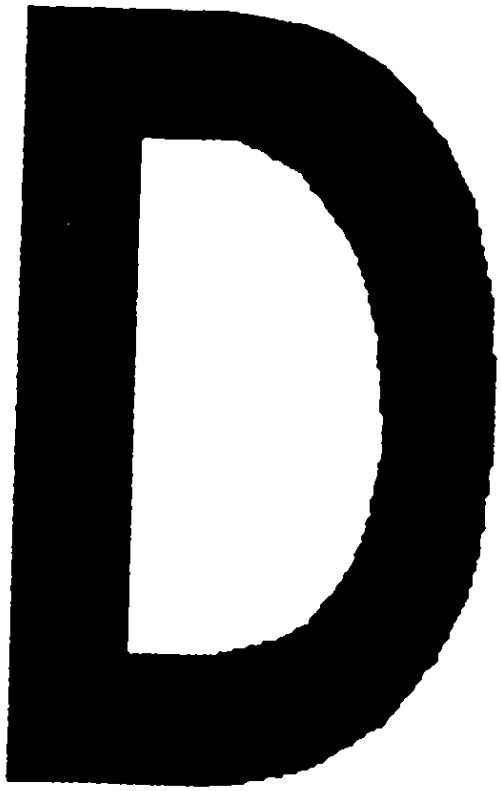
A community outreach program was developed to assist the Rochester Gas and Electric Corporation (RG&E) with public communication about the remediation of a site, known to contain coal tar and oil, located adjacent to RG&E's former West Station manufactured gas plant (MGP) in Rochester, NY. Community Outreach Program services were provided from September 1995 until August 1996. The periods of greatest project activity occurred prior to the commencement of remediation work.

Goals of the Community Outreach Program were:

- Communicate RG&E project objectives
- Provide information about the site, the planned site remediation activities, and the remediation technologies
- Communicate the human health and environmental risk associated with the site before, during, and after the remediation activities
- Create a dialogue between RG&E and the public
- Build trust and credibility in the communication strategy

Outcomes:

- Based on information available and feedback received, achievement of program goals to the extent possible given the degree of media exposure obtained and level of public interest.
- Communication of project information, goals and objectives, and health and environmental risk primarily through newspaper articles and the sign on the bridge.
- Development of limited dialogue between RG&E and the public through use of a communications advisory committee, independent technical consultants and presentations to a few special interest groups.
- No media or public expression of concern.
- Limited public interest in the project.
- Acknowledged enhanced understanding of RG&E MGP remediation efforts by the communications advisory committee, representing several special interest groups.
- Communications advisory committee trust in the information provided by RG&E Project Manager Kevin Hylton.
- Review of project plans and monthly reports by two independent technical consultants.
- Increased public knowledge of RG&E MGP environmental remediation efforts.
- Further refinement of a community outreach program model that can be adapted for future RG&E environmental investigation and remediation activities.



APPENDIX D

PHASE I FIELD NOTES

LABORATORY NOTEBOOK

Notebook No.: _____

Assigned to: FABIAN GRABSKI

Date: _____

Use Nalgene Cat. No.
6301-1000
to reorder.

Copyright 1973, Nalge Company
Printed in U.S.A.

Rev. 1984

RETEC
3040 WILLIAM PITT WAY
PITTSBURGH, PA 15238

ATLANTIC ENVIRONMENTAL SERVICES, INC
C/O ROCHESTER GAS & ELECTRIC
25A MILL ST
ROCHESTER, NY 14614
ATTN: FABIAN GRABSKI

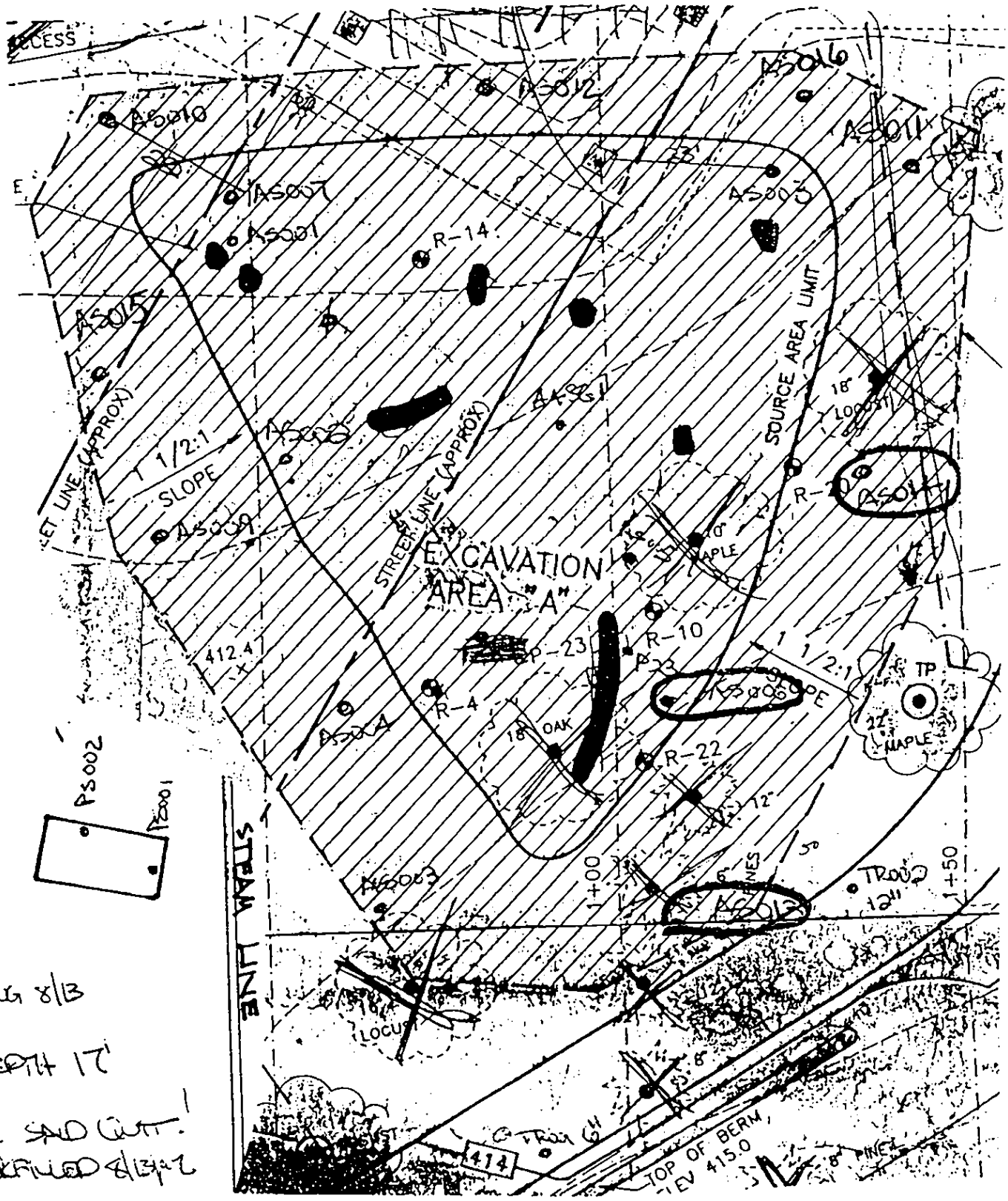
KEVIN HYLTON:

747-3771 (Cellular)
724-8428 (office)
624-5284 (home)

EQUIPMENT LEFT ONSITE 8-28-92

FLUOROMETER (WITH MANUAL)(EXTRA LAMP)
XENON POWER LAMP SUPPLY UNIT
SHAKER
TOP SCALE
SYRINGES 1ML, 10ML, 50ML, .25 ml, 1.0 ml
PLASTIC 60 ml SYRINGES
25 ml GRADUATED CYLINDER
2 glASS STOPPER BOTTLES
100 ml BEAKER
2L BEAKER PLASTIC
100 ml PLASTIC BEAKER
3 glASS CUVETTES

Thomas M. Cattone



DUG 8/13

DEPTH 17'

K.H. SAND CUT.
BACKFILLED 8/13/92

NO TAR VISUAL/SMELL

PROJECT 1734-03-03

Notebook No. _____

Continued From Page _____

DATE	MATRIX	SAMPLE NO.	DEPTH	PPM	COMMENTS
8-5-92	SOIL	ASOO1	SURFACE	>10,000	SURFACE TAR	
8-5-92	SOIL	ASOO2	SURFACE	47,000	SURFACE TAR	
8-5-92	SOIL	TROO1	6"	130	BACKFILL CLEAN SOIL CAP	
8-6-92	SOIL	BFOO1	NA	11	NO ODOR. ROAD CUT MATERIAL - WILL BE USED AS BACKFILL.	
8-6-92	SOIL	BFOO2	NA	6		
8-6-92	SOIL	BFOO3	NA	1030		
8-6-92	SOIL	BFOO4	NA	11		
8-6-92	SOIL	PROO1	12"	6	FROM PERM ROAD @ STEAM PIPE BEND. DARK UNDER MJ BRICK	
8-6-92	SOIL	BFOO5	NA	30	FROM CP YARD SOURCE (NE OF SITE)	
8-6-92	SOIL	GRAB GravelL	NA	38	WEATHERED.	
8-6-92	SOIL	TROO2	12"	36	FROM CLEAN SOIL CAP.	
8-7-92	SOIL	ASOO3	SURFACE	24	NO SHELL, LOOKS CLEAN	
8		ASOO4		221		
8		ASOO5		176		
8		ASOO6		98		
8		ASOO7		87		
8		ASOO8		38		
8		ASOO9		54		
8		ASO10		43		
8		AS-01		58		
8		ASO12		26		
8-7-92	SOIL	ASO13	SURFACE	9		
		ASO14		13		
		ASO15		2		
8-7-92	SOIL	ASO16	SURFACE	15	NO SHELL. LOOKS CLEAN	
8-10-92	SOIL	ASO17	SURFACE	21	FIELD BLANK OF ASO16	
8-10-92		PSOO1		24	EXCAVATOR PIT BY CLIFF.	
8-10-92		PSOO2	SURFACE	29		
8-10-92		14+37	2.5'	411	BELOW TAR FINGER. ALONG INSIDE CORNER OF ROAD @ STA 14+37.	
8-10-92		14+37E	3.5'	152	DEPTH LIMIT OF TAR REMOVAL.	
8-10-92		13+00	3.5'	31	APPEARS CLEAN.	
8-10-92	SOIL	13+00E	3.5'	103		

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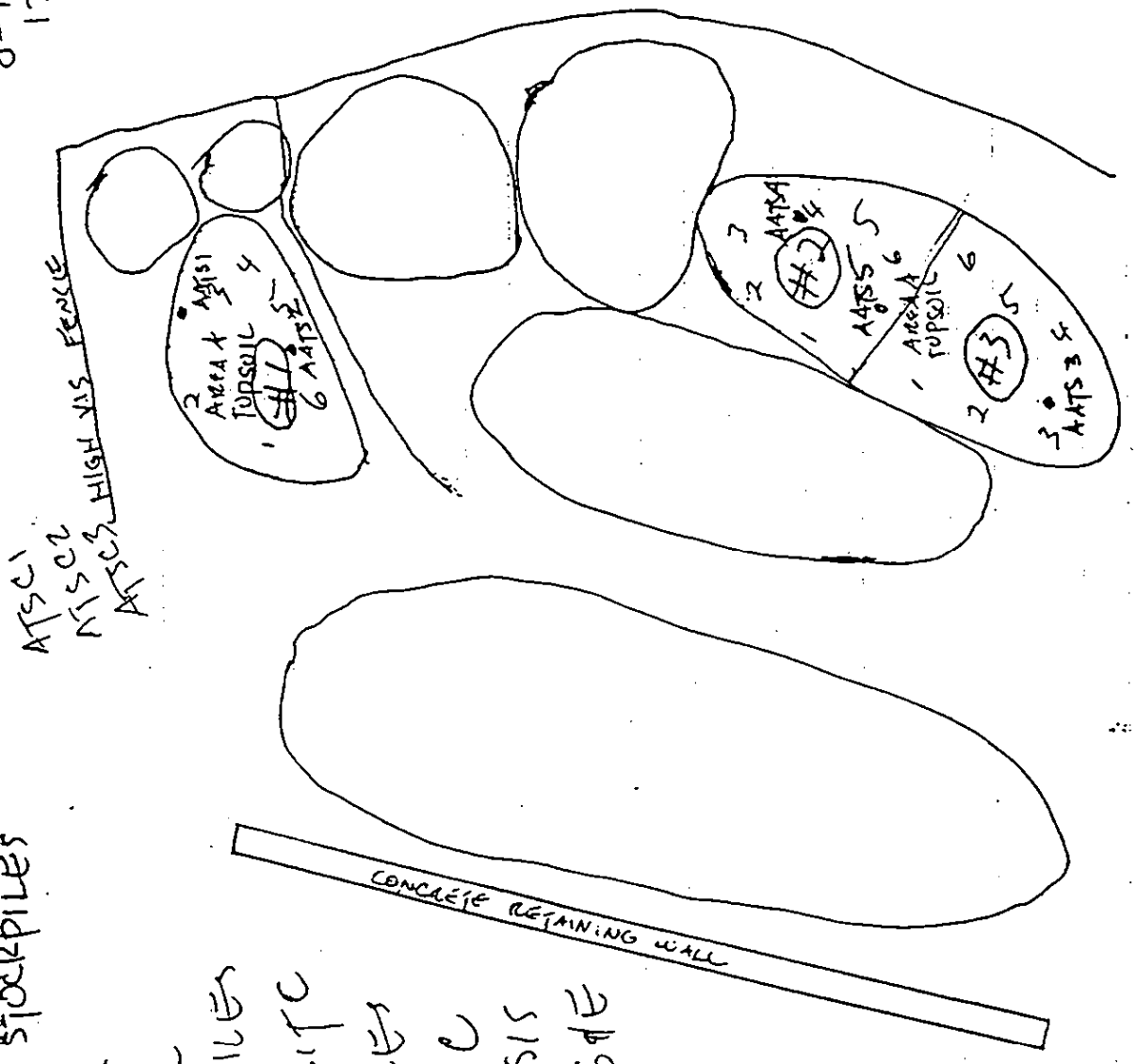

TOPSOIL STOCKPILES

AREA A TOPSOIL STOCKPILES COMPOSITE SAMPLES FOR GEOTECHNICAL ANALYSIS AT RGHE LABS.

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Notebook No. 5

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DATE	MATRIX	SAMPLE NO.	DEPTH	PPM	COMMENTS
8-11-92	SOIL	BS00	SURFACE	10	LAKE CLEAN
8-11-92	SOIL	BS002	SURFACE	?	
8-12-92	SOIL	CLIFF BASE 1	SURFACE	44	AREA A
8-12-92		DRUM SUMMARY (R.)		419	
8-12-92		GRAVEL BF003	SURFACE	25	
8-12-92		ROAD AT MT HP PARKING	4"	13	TOPSOIL IMPORTATION
8-12-92		" " 2	4'-6"	160	" "
8-12-92		BS002	SURFACE	9	CLEAN
8-12-92	SOIL	CLIFF BASE 2	SURFACE	102	
8-13-92	SOIL	CLIFF BASE 3	SURFACE	85	AREA B
8-13-92		ROAD AT MT	0-6"	68	
8-13-92		RIVER BANK	SURFACE	36	
8-13-92		GRAVEL BF004	SURFACE	1	
8-13-92		"C" BENCH EXCAVATED	12'	98	MATERIAL USED FOR BERM AT DEPTH AREA "C"
8-13-92		" "	12	143	
8-13-92		ROAD AT ENTRANCE	9"	145	
8-13-92	SOIL	RIVER BANK 2	SURFACE	7	
8-14-92	CLIFF BASE SWAB	SOIL	SURFACE	2	APPEARS CLEAN
8-14-92	TOPSOIL "B"	SOIL		6	
8-14-92	CLIFF BASE	SOIL		3	APPEARS TO BE VIRGIN IN THICK BRUSH
8-14-92	CLIFF BASE NO 2	SOIL	SURFACE	21	SAND/GRAVEL
8-18-92	SOIL	AATS1	SURFACE	52	DARK GREY - AREA A TOPSOIL
8-18-92	SOIL	AATS2		27	BROWN - " "
8-18-92	SOIL	AASS1	SURFACE	190	DARK GREY - " "
					* TAKEN JUST BELOW TOPSOIL TO SEE IF TOPSOIL CAN BE SAVED.
8-18-92	SOIL	AATS3	6"	44	AREA "A" TOPSOIL STOCKPILE
8-18-92	SOIL	AATS4	12"	46	" "
8-18-92	SOIL	AATS5	6"	90	" "

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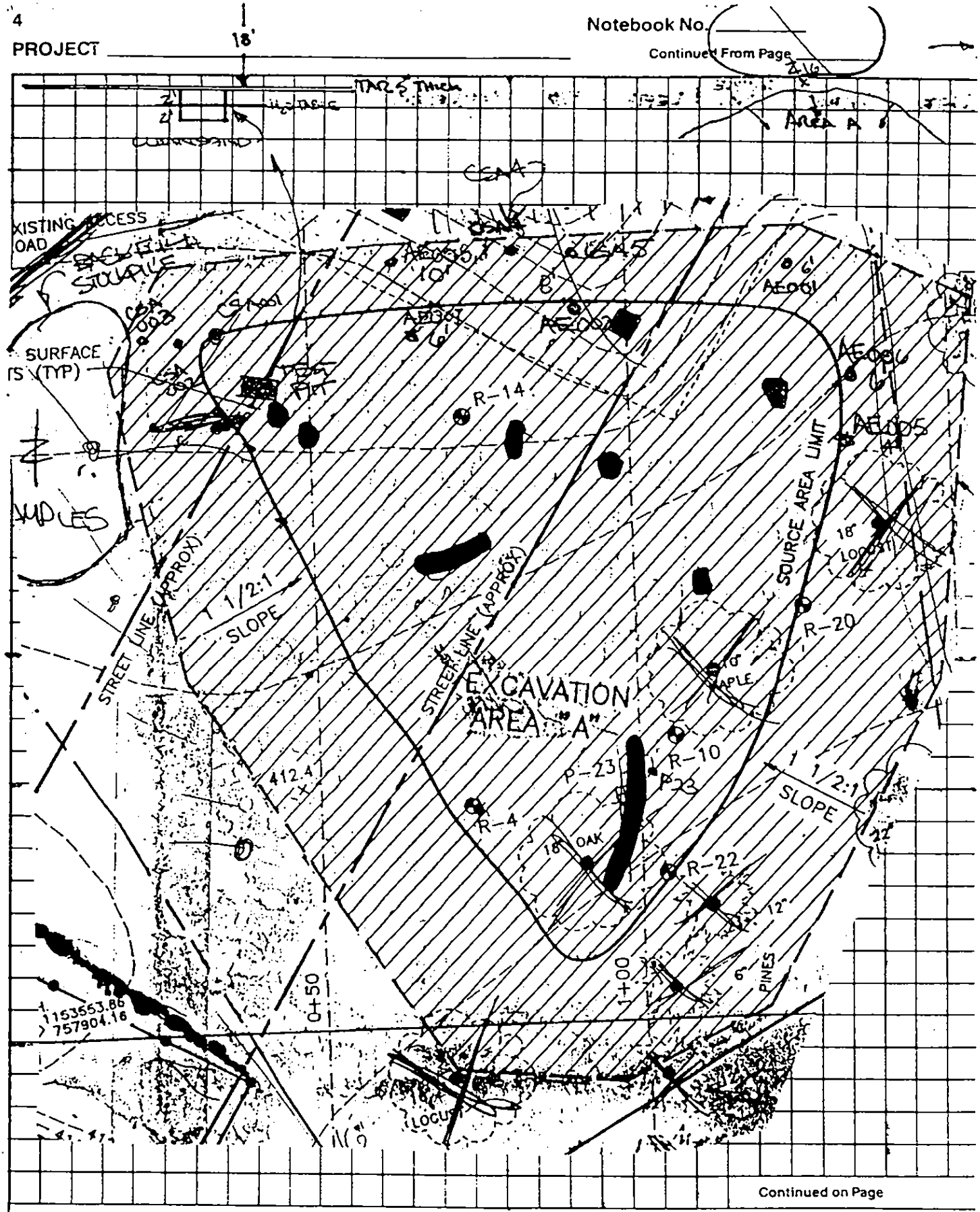

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DATE	MATRIX	SAMPLE NO	DEPTH	PPM	COMMENTS	
8-19-92	SOIL	AE001	6'	77	ON SLOPE, EXCAVATION A.	
		AE002	0'	19	SLAG, POSSIBLE BACKFILL	
		AE003	NA	3	(FUTURE BACKFILL FROM "A".)	
		AE004	NA	53	(STOCKPILED.	NP
C		AE005	4'	220	UNDER CLAY LENSE, LOOKS CLEAN)	NP
		AE006	6'	135		
C		AE007	6'	550	APPEARS CLEAN	
C		AE008	10'	1.4	VIRGIN SAND?	
C		#1	NA	1085	(STOCKPILED MATERIAL THAT	NP
		#2	NA	230	MAY BE USED AS BACKFILL	NP
		#3	NA	63	FOR AREA A.)	NP
8-19-92	SOIL	#4	NA	38		NP
C 8-20-92	SOIL	#5	NA	95	(POSSIBLE BACKFILL MATERIAL	NP
		#6	NA	71	FOR AREA "A".)	NP
		#7	NA	242		NP
C 8-20-92	SOIL	#8	NA	1200		NP
8-20-92	SOIL	TEST PIT	22'	30	(AT WATER TABLE IN CONFINING LAYER	
* 8-20-92	SOIL	TEST PIT #2	21'	8.5	BELOW TAR LENSE, GREEN SAND)	
C 8-20-92	SOIL	#9	NA	190	(POSSIBLE BACKFILL, WILL NOT USE	NP
8-20-92	SOIL	#10	NA	457		NP
C 8-20-92	SOIL	#11	NA	584		NP
C 8-20-92	SOIL	#13	NA	80		NP
C 8-21-92	SOIL	CSA001	16'	41	(ALONG 1½:1 SLOPE. LOOKS CLEAN	
C 8-21-92	SOIL	CSA002	10'	403	ABOVE TAR LAYER AT 18'.	
8-21-92	SOIL	CSA003	6'	441		
8-21-92	SOIL	CSA004	14'	250	AT SAND CONFINING LAYER. PERCHED ON	
C 8-21-92	SOIL	CSA005	14'	0.3	WATER TABLE. BETWEEN SOUTHERN PIERS)	
8-21-92	SOIL	#15	NA	283	BACKFILL TEST. SMELLS LIKE TAR	NP
C 8-21-92	SOIL	#16	NA	353	(TESTING BACKFILL PILE ON	
8-21-92	SOIL	#17	NA	313	WEST SIDE OF AREA "A")	
C 8-21-92	SOIL	#18	NA	125		

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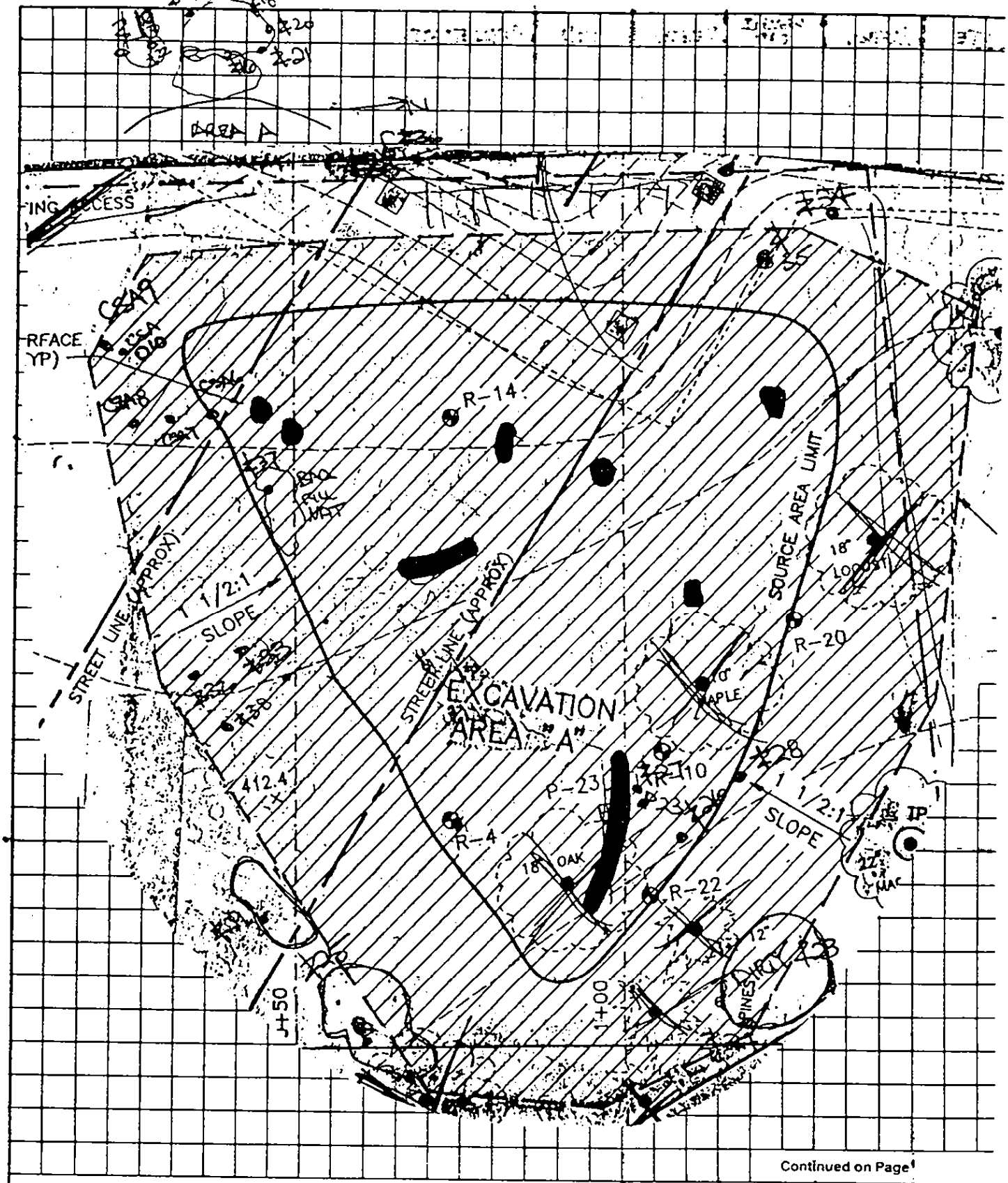

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DATE	MATRIX	NO.	DEPTH	PPM	COMMENTS
8-21-92	SOIL	CSA006	16'	55	JUST ABOVE TAR
8-21-92	SOIL	CSA007	10'	332	SMELLS/LOOKS CLEAN
8-21-92	SOIL	CSA008	6'	304	" "
8-21-92	SOIL	#19	NA	832	NO SMELL (POSSIBLE
8-21-92	SOIL	#20	NA	305	NO SMELL BACKFILL)
8-21-92	SOIL	#21	NA	65	NO SMELL
8-21-92	SOIL	#22	NA	429	NO SMELL
8-22-92	SOIL	#23	NA	746	MATERIAL (SOIL) FROM "B" AREA "A". SMELLS DIRTY
8-22-92	SOIL	#24	NA	1800	" " " " "
8-22-92	SOIL	CSA009	1'	56	NEAR TOE OF SLOPE. NO ODOR
8-22-92	SOIL	CSA010	3'	110	NO ODOR, LOOKS CLEAN.
8-22-92	SOIL	#25	NA	1830	SMELLS LIKE TAR.
8-22-92	SOIL	#26	10'	77	SAND, NO SMELL, LOOKS CLEAN. (WILL SAVE
8-22-92	SOIL	#27	6'	—	" " AS BACKFILL)
8-22-92	SOIL	#28	4'	702	TOE OF SLOPE, BROWN, SMELLS OF TAR.
8-22-92	SOIL	#29	NA	1060	SMELLS SLIGHTLY, BROWN, POSSIBLE FILL?
8-22-92	SOIL	#30	NA	44	FROM BETWEEN SWD & NW PIERS.
8-22-92	SOIL	#31	NA	910	FROM SOUTHEAST EXC
8/24/92	SOIL	#32	4'	6020	LOOK/SMELL CLEAN
8/24/92	SOIL	#33	10'	1350	" "
8/24/92	SOIL	#34	10'	4	CLEAN SAND UNDER TAR BAND.
8/24/92	SOIL	#35	NA	138	MATERIAL (CLEAN) FROM TOP OF PORT RIO ROAD
8/25/92	SOIL	#36	4'	30	LOOKS CLEAN, ON SURF FOR RIP-RAP, NW PIER
8/25/92	SOIL	#37	NA	193	BACKFILL MAT. SITTING ON WEST SLOPE, AREA "A".
8/25/92	SOIL	#38	7'	67	LOOKS CLEAN. UNDISTURBED AREA. SLIGHT ODOR
8/25/92	SOIL	#39	NA	101	RAMP MATERIAL
8/25/92	SOIL	#40	NA	89	" "
8/26/92	SOIL	#41	NA	116	POSSIBLE BACKFILL MATERIAL BY RAMP.
8/26/92	SOIL	#42	NA	148	" "FROM RAMP BY OLD PIER
8/26/92	SOIL	#43	NA		POSSIBLE BACKFILL, SMELLS CLEAN.
8/26/92	SOIL	#44	NA		PROCESSED MATERIAL

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DATE	MATRIX	NO	DEPTH	PPM	COMMENTS	
9/8/92	SOIL	'B' ASH	1'	27	ASH AREA 'B'	MP
9/8/92	SOIL	TRK 1+37	4'	17,880	PURE PRODUCTS.	MP
9/8/92	SOIL	TRK OPEN 'B'	8'	13,650	LOOKS LIKE PURE TAR.	MP
9/8/92	SOIL	SCREENED A' WATER	—	2,310	HEAVY ODOR W/ SMALL TAR BALLS.	MP

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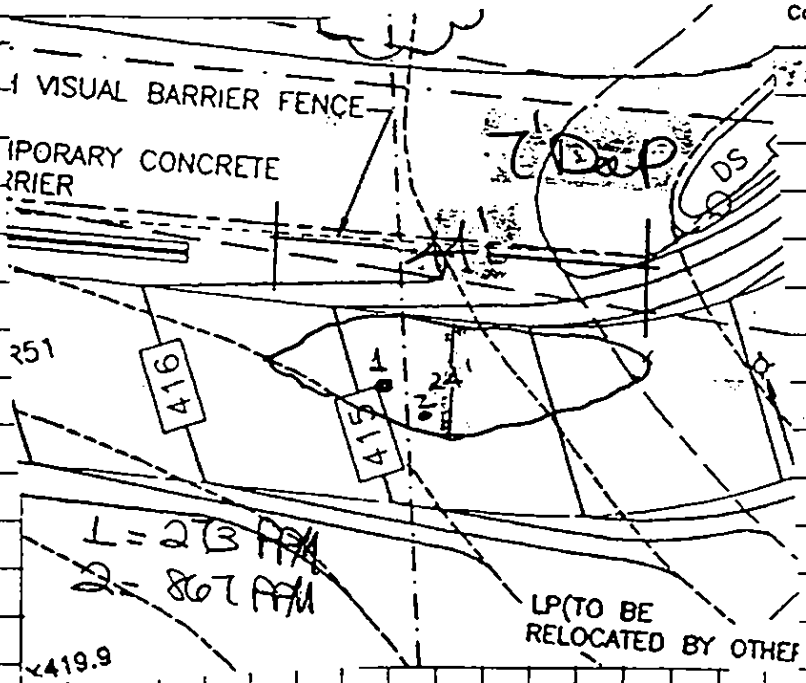

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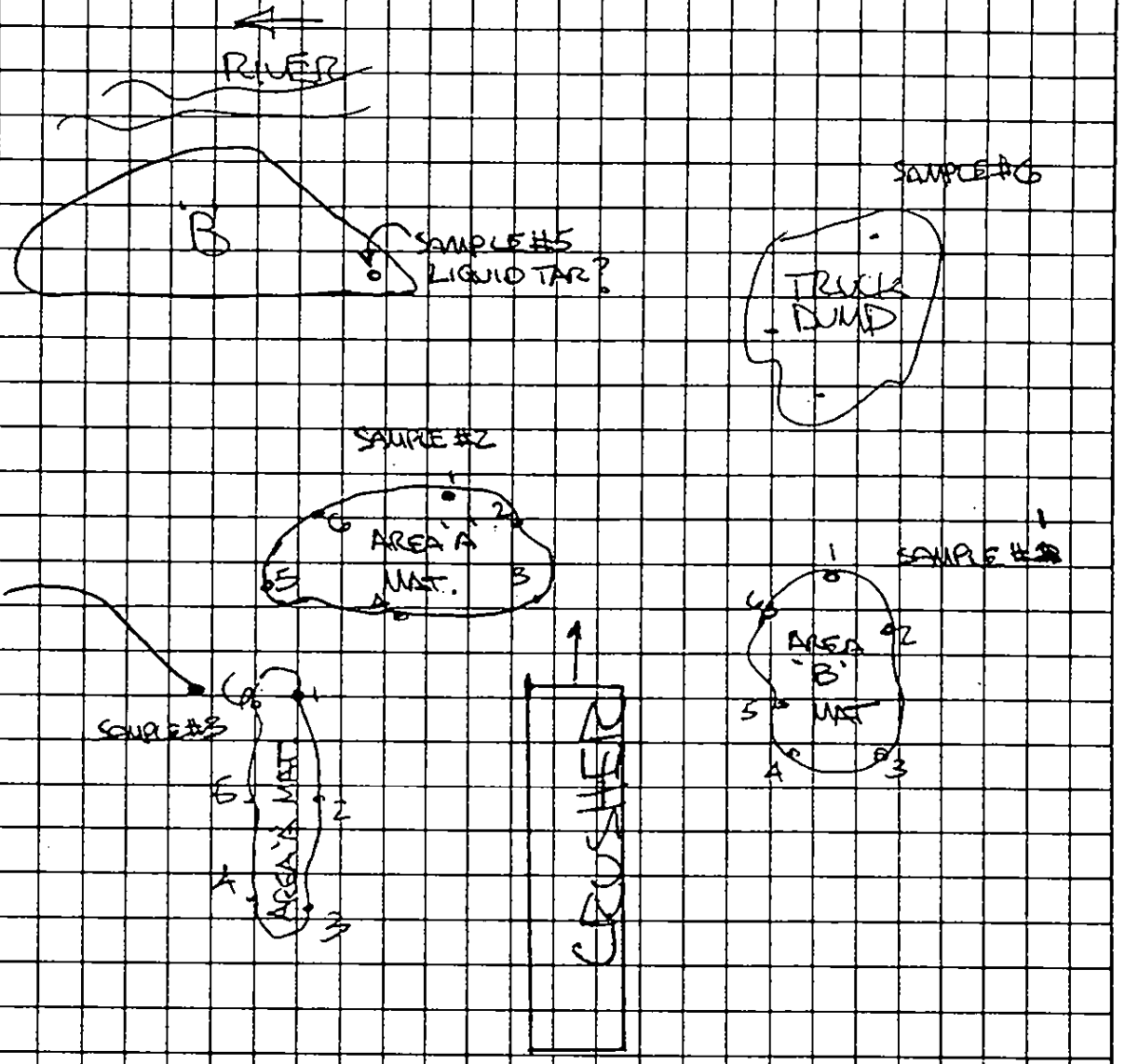

SAMPLE #1: 2,130 PPM
" " #2: 5,030 PPM
" " #3: 4,200 PPM } = COMPOSIT SENT TO _____
" " #4: 13,510
" " #5: 20,340 PPM
" " #6: 2,800

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PROJECT

IEA Corporate Network of Laboratories

Page _____

Connecticut
200 Monroe Turnpike
Monroe, Connecticut 06468
203/261-4458
Fax 203/268-5346
203-452 3238

New Jersey
628 Route 10
Whippany, New Jersey 07981
201/428-8181
Fax 201/428-5222

Illinois
126 West Center
Schaumburg, Illinois
708/705-0740
Fax 708/705-1567

Florida
1 Sawgrass Corporate Parkway
Sunrise, Florida 33323
305/846-1730
Fax 305/846-1735

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P.O. Box 626
6 Lamore Road
Essex Junction, Vermont 05453
802/878-5138
Fax 802/878-6765
1-800-723-4432

Massachusetts
149 Rangeway Road
N. Billerica, Massachusetts 01862
617/272-5212
Fax 508/667-7871
1-800-950-5212

North Carolina
3000 Weston Parkway
ry, North Carolina 27513
919/877-0090
Fax 919/677-0427
1-800-444-9919

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Charlotte, North Carolina 28217
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Corporate Headquarters
IEA, Inc.
P.O. Box 12846
Research Triangle Park, North Carolina 27709
919/677-0090
Fax 919/677-0427

4 LARGE JARS FOR TCL, TAL AND TCLP ATTN SAMPLE ARRIVAL

2 SMALL 1 CHEM JARS FOR TPH AND TOX ATTN STEVE BENNETT

2 SMALL JARS FOR EPA 8020 (UCM)

SAMPLES CALLED HARLEYVILLE #1. SENT AS PER KURT HICKS TO SEE IF PASSED MATERIAL IS HIGH IN HYDROCARBONS. RESULTS SAID BY ENVIROTEC.

9/11/92 RESAMPLED FOR REACTIVITY. SENT TO CT LAB.

9/18/92. AS PER KEVIN HILTON (AGE) I SENT SAMPLE FOR HARLEYVILLE NO. 2 (TCLP BENZENE) SENT TO IEA LAB, CT

Continued on Page

10/1/92 AS PER KH(EGE) I SENT SAMPLE ~~(SURFACE SOIL)~~ (SUBSURFACE SOIL) TO IEA LAB IN CT. 4 DAY FAX RESULTS. TCLP METALS & TCLP VOLATILES. ~~COMPOSITE OF SIX SAMPLES~~ SAMPLES 0"-4" BELOW SURFACE.

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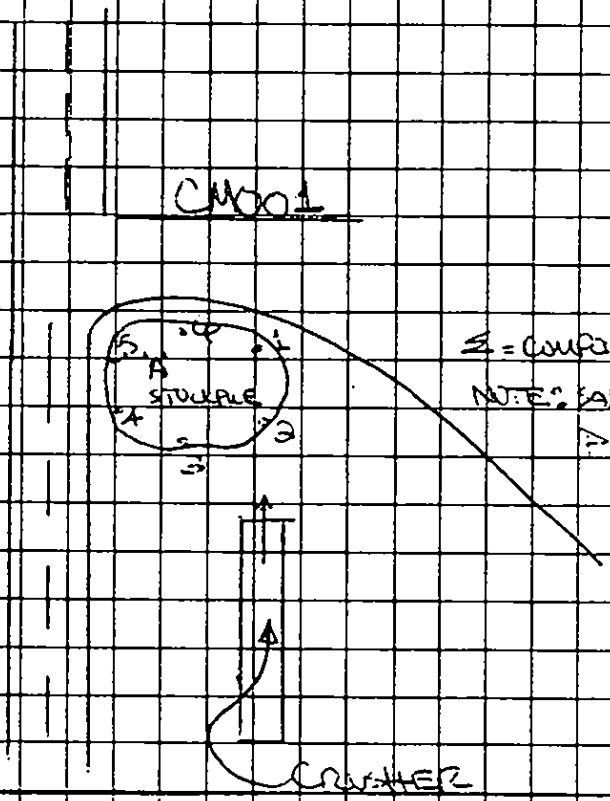

C = COMPOSITE.
NOTE: SAMPLES TAKEN @ 3"-6" INTO PILE, HEIGHT VARIED.

10/20/92: CALL FROM PB FOUND THAT ENLARGE HAD NOT RECEIVED RESULTS FROM SAMPLE "SCREENED SOIL 1" SENT OUT ON 10/1/92. UPON REACHING IEA LABS, IT WAS FOUND THAT THEY DID NOT FORWARD RESULTS UPON COMPLETION OF THE TESTS, ∴ MISSING THE 14-DAY LIMIT. I OBTAINED COPY OF RESULTS & FAXED THEM TO KH. I ALSO MAILED COPIES TO KH.

10/21/92: STEVE BENNETT (IEA LABS) CALLED & APOLOGIZED ABOUT DELAY. HE REDUCED COST FOR TEST FROM $ (30.50 (30% FOR RUSH)) TO $ 195. HE WILL(DO) SEND OFFICIAL BOUND RESULTS TO KH.

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PROJECT CONFIRMATION SAMPLES Continued From Page _____

DATE	SAMPLE	DEPTH	AREA	UV PAH	COMMENTS
8/24/92	CS001	18'	A	3	SANDY MATERIAL
8/24/92	CS002	18'	A	1	" "
8/28/92	CS003	20'	A	5	" " W/ SMALL STONES
8/29/92	CS004	20'	A	3	SANDY
8/31/92	CS005	20'	A	2	SANDY, BROWN
8/31/92	CS006	20'	A	85	SLAG, SAND
			B		
			B		
			B		
			B		
			B		
			B		

RANDOM PROCESSED MATERIAL SAMPLES

DATE	SAMPLE	AREA	COMMENTS
8/25/92	CM001	A	—

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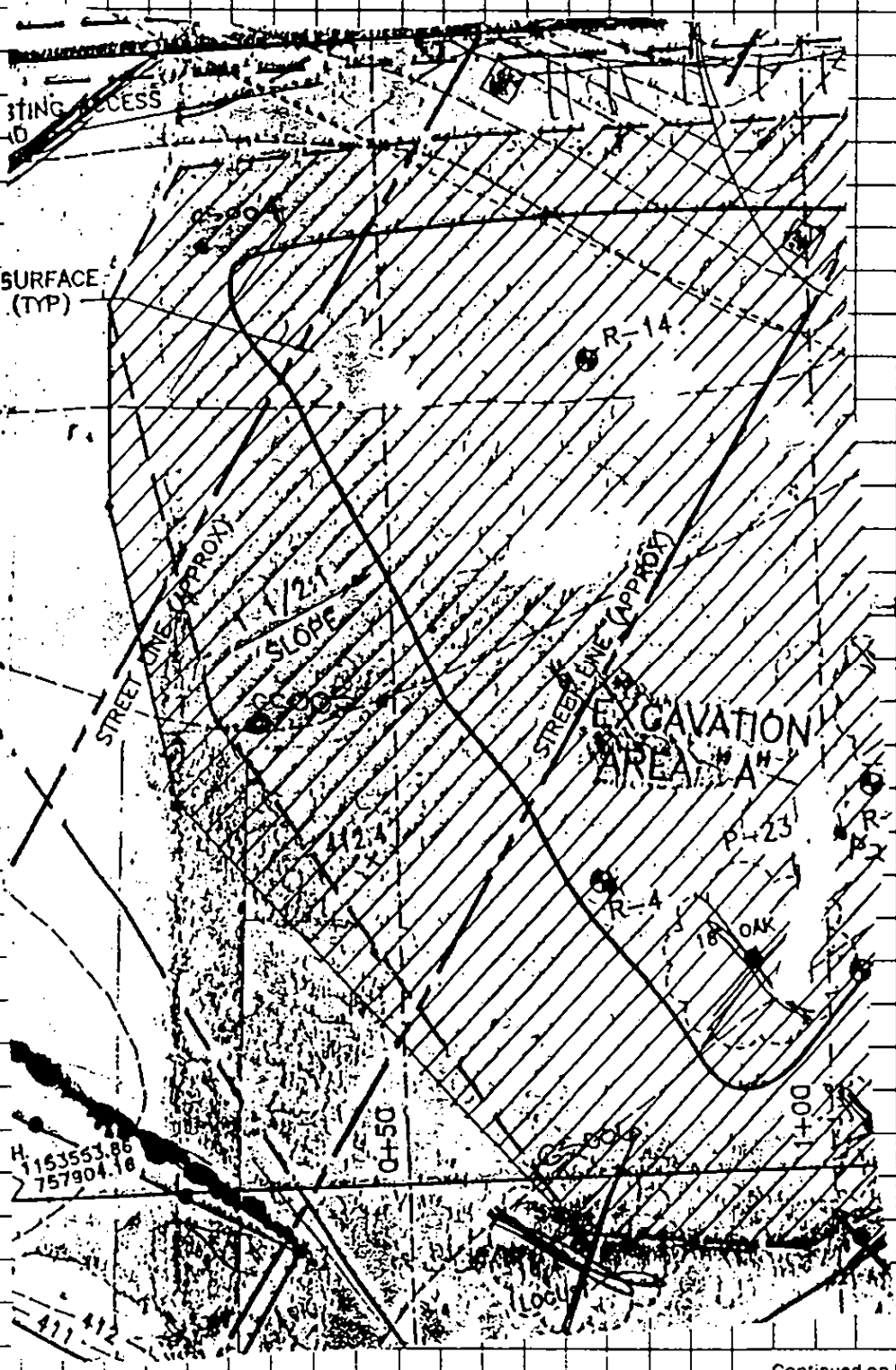

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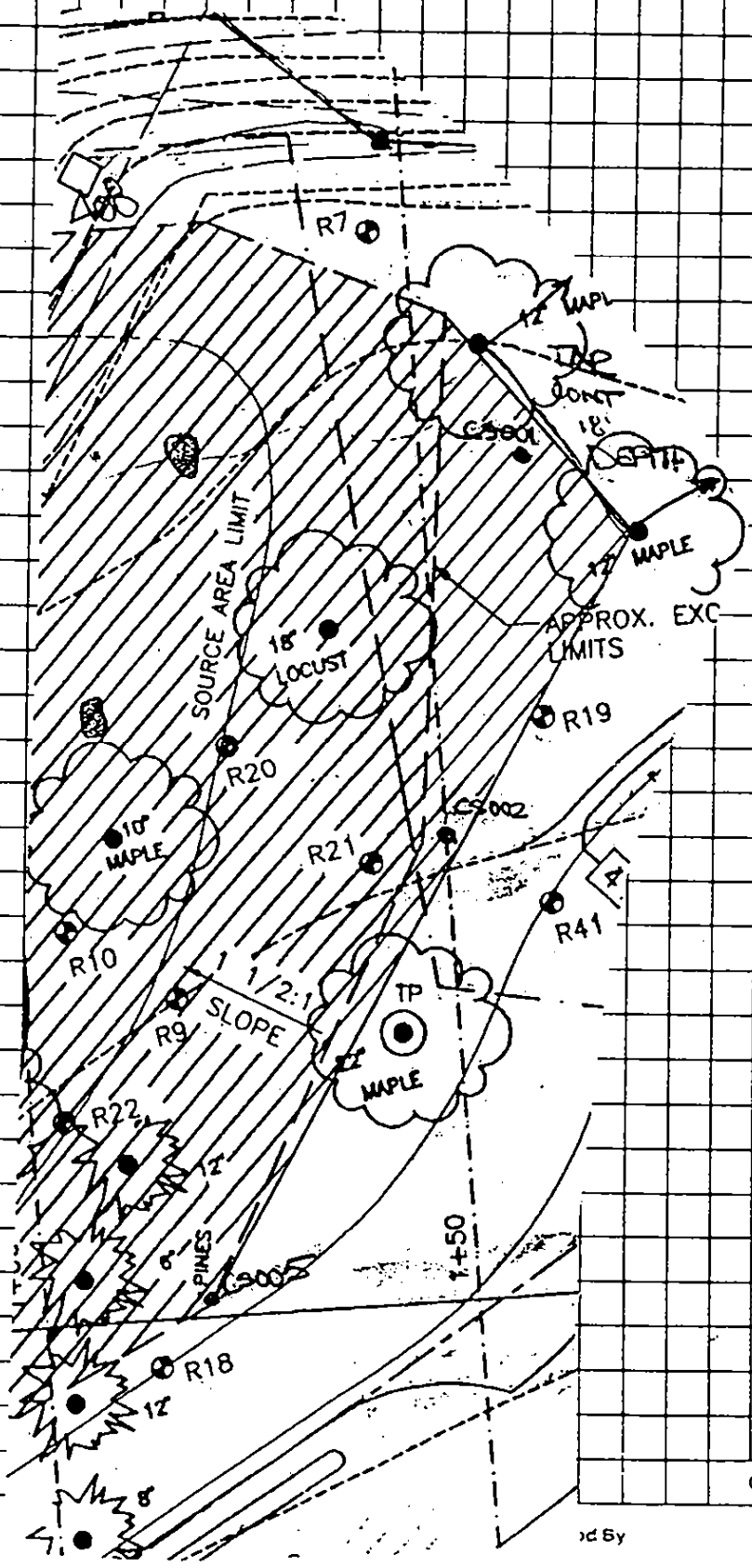

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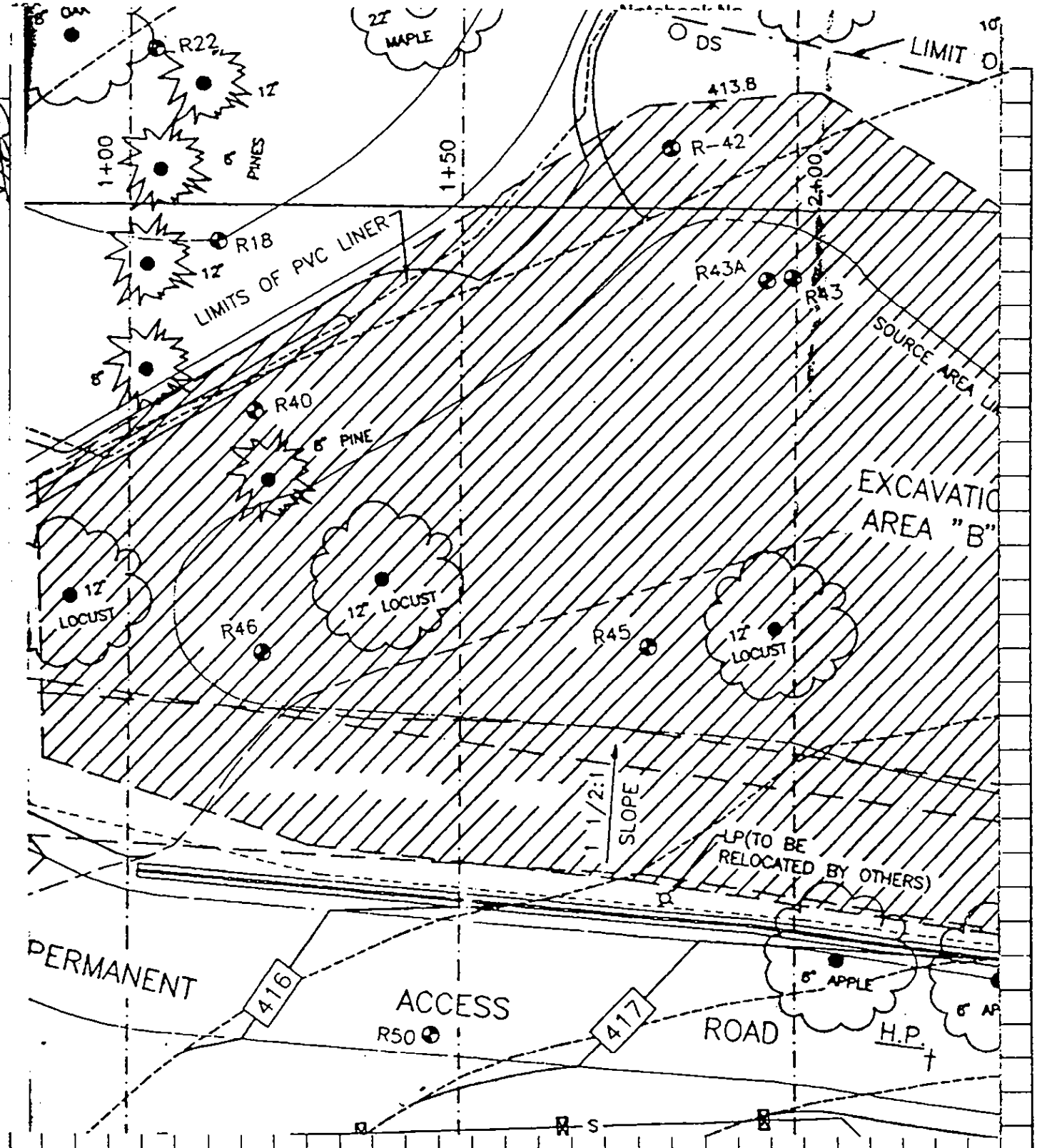

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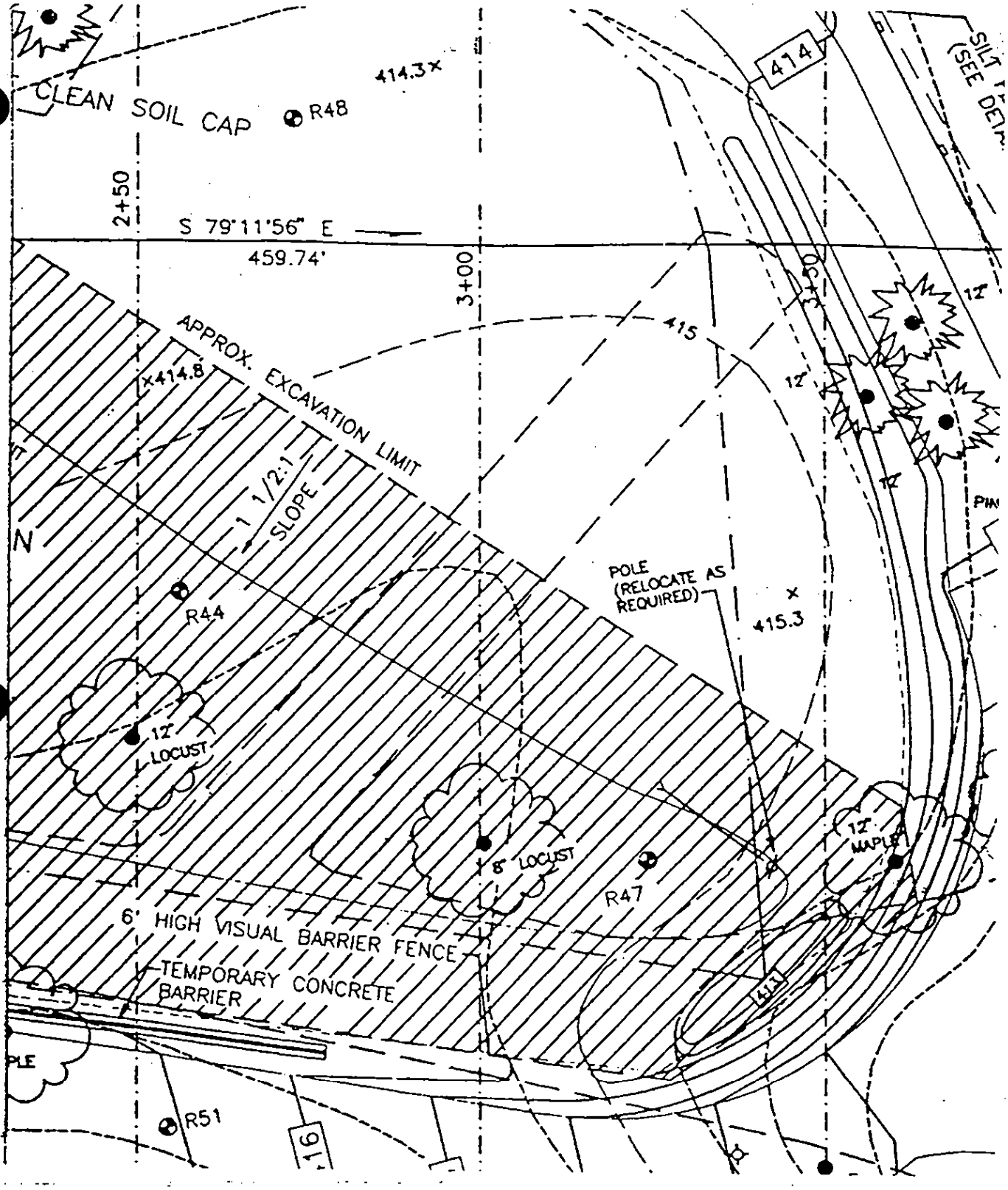
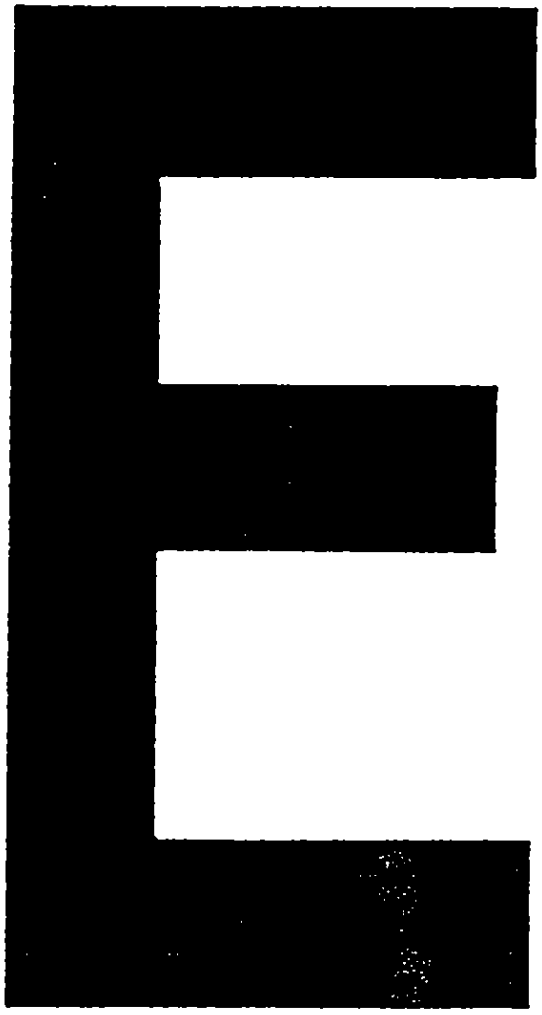

CLEAN SOIL CAP
R48
414.3
2+50
S 79°11'56" E
459.74'
3+00
414
SILT
(SEE DET
12"
APPROX. EXCAVATION LIMIT
414.8
415
1 1/2:1 SLOPE
N
R44
POLE
(RELOCATE AS
REQUIRED)
415.3
PIN
12" LOCUST
8" LOCUST
R47
12" MAPLE
6' HIGH VISUAL BARRIER FENCE
TEMPORARY CONCRETE BARRIER
411
PLE
R51
19



APPENDIX E

PHASE II WORK PLAN

30

Rochester Gas and Electric Corporation

Coal Tar - Coal Mixture

Test Burn Work Plan

1.0 GENERAL

1.1 Introduction: The purpose of the project is to determine the operational and economic feasibility of burning non-hazardous manufactured gas plant residues (coal tar and coal tar soil) mixed with coal in a pulverized coal boiler. This demonstration is essential for a complete evaluation of cost-effective alternatives available to RG&E for remediation of manufactured gas plant residues. Given that pulverized coal systems are more prevalent in the utility industry than other types of coal combustion systems, the results of this investigation may have broad applicability across the industry.

1.2 Material Description: The following is a description of the terms used later in this work plan.

- "Coal Tar Soil" is a non-hazardous mixture of soil and manufactured gas plant residues. The mixture occurs as a result of the co-disposal of earthen materials such as spoil from gas line installations with tars, coke, ash, and construction debris. This "soil" is to be excavated and run through a portable screening plant on the site of the former West Station manufactured gas plant. The screened material will not exceed 3/4" inch topsize and has an energy content

of about 3,200 BTU/lb.

- "Pure Tar" is coal tar excavated from a known source located at the south end of "Area B" at the West Station remediation site (see attached plot plan, Figure 1.). It has a BTU content of approximately 14,000/lb and handling characteristics that require mixing with coal and/or surrounding soil at or near the excavation site. It has concentrations of leachable benzene high enough such that handling and mixing must meet certain Federal requirements for hazardous waste management. It may contain small amounts of gravel, soil, ash, coke or debris but in a relatively small percentage overall. That percentage increases at the fringes of the source area.

- "Coal" is assumed to have an average as-fired quality of: 13,300 Btu/lb, 4 to 5% moisture, 6 to 7% ash, 35 to 40% volatile matter, about 2% sulfur, and a balance of fixed carbon (based on average as-fired coal quality). This coal will be drawn from existing coal stockpiles from Russell Station (following implementation of a program to transfer coal from Russell Station to Beebee Station by truck). It should be fairly consistent and representative of recent coal deliveries.

- "Mix 1" is a mixture of approximately 5 to 7% coal tar soil and 93 to 95% coal and has a BTU value of up to 12,500/lb.

- "Mix 2" is a mixture of up to 5% coal tar and 95% coal and has a BTU value of up to 13,500/lb.

2.0 TEST DURATION

The coal tar soil will be screened and prepared for mixing in the week prior to the test period. This screening may continue into the test period if necessary. An estimated 1000 tons of coal tar soil (roughly equating to 21,000 tons of mixed fuel) will be burned over a 4 week period, starting about April 1, 1994 with additional amounts expected to be consumed after the majority of residual sampling is completed in the first month. The preliminary coal tar test schedule depicting the first four weeks is included as Attachment 1 to this document. Other operational and maintenance evaluations may be conducted in the weeks that follow.

Week 0 — Burning coal only and establishing operational parameters. Due to the potential variability of coal, samples of coal, bottom ash, ESP flyash, and wastewater from the CTF discharge will be collected and sent for analysis during this period.

Week 1 — Burning a diluted Mix 1 in Unit 12 boiler only (while allowing load cycling) -- increasing the coal tar soil content of the blend in daily increments to establish an optimum blend. The maximum concentration of the blend to be tested will be determined by operational parameters

and by the manufacturer of the unit (Combustion Engineering), but is expected to be in the range of 5% to 7% coal tar soil mixed with 93 to 95% coal. At first, only one bunker (bunker A), pulverizer, and burner ring will be used to fire the mixture. Other rings will be used as necessary to meet load using coal, only. The unit will be allowed to float during the week except during certain brief periods (scheduled as noted on Attachment 1) during which certain parameters will be monitored (see Attachment 2). It may be unnecessary to artificially force the load to certain levels if the data on Attachment 2 can be collected at times during which the unit cycles naturally through the desired conditions.

Week 2 Expand testing to additional burner rings (B&C) - burning optimum blend as established during Week 1 in both high-load (67 MW, nominal) and low-load (30 MW, nominal) conditions. Once again, if the necessary information on Attachment 2 can be collected while the unit naturally cycles through the desired load range, it may be unnecessary to artificially adjust it.

Week 3 Switch fuel mixture to evaluate the characteristics of Mixture 2 (5% coal tar, 95% coal, nominally). The percentage of tar in the mixture will be slowly increased to reach a maximum of 5%, or until optimum

conditions are reached, whichever is less. Samples of the Phase 1 (Mixture 2) mix, final fuel mix, ash and central wastewater treatment facility (CTF) discharge water will be collected. Once again, the unit will be allowed to float and appropriate documentation will be retained to compare with conditions experienced with the previously tested fuel mixture.

Week 4 Comprehensive residuals quality and air emissions testing will be conducted over approximately a one week period and both fuel mixtures will be tested. The stack tests will likely take four days to complete. During the actual stack testing period, it will be necessary to schedule the unit's load conditions and not vary them outside a desired range. The stack testing periods should not exceed 6 hours per day. All stack tests will be conducted during high load conditions (67 MW, nominal).

3.0 MATERIALS HANDLING AND STORAGE

It is anticipated that the entire 1000 tons will be burned during the four-week test period however, if any prepared fuel mixture remains, it will be consumed (at the discretion of the station) over a brief period following the test. During that time, any needed operations and/or maintenance evaluations will be conducted.

It is estimated that 1750 tons of ash will be produced over the test period. Ash produced during the test period will be retained in storage until chemical analyses are completed to prove it is satisfactory for commercial sale or landfill. RG&E will likely require a "Beneficial Use Determination" or "BUD" from the New York State Department of Environmental Conservation (NYS DEC) in order to reuse the ash produced from the test burn in a manner consistent with its current use as a cement additive or road traction agent. That implies a requirement to store the 1750 tons of ash until the BUD can be secured. Efforts are now underway to locate a suitable storage location.

The attached plot plan (Figure 1) shows the locations of coal and coal tar soil storage. The coal tar soil will be scraped from the surface of "Area B". (This material had been passed through a 3" jaw crusher during the first phase of site remediation in 1992. It was replaced on top of "Area B" for temporary storage.) (See Figure 2.) It will be passed through a 3/4" vibrating screen. Coal tar will be excavated from the extreme south end of "Area B". (This source area was discovered during site remediation efforts in 1992.) Coal will be brought to, and temporarily staged on "Area B" where it will be mixed in proper proportions with coal tar soil and coal tar to create two different "Phase 1" mixtures. All mixing of ingredients will be performed in modified rolloff containers or other devices meeting RCRA 90-day storage requirements so as to retain any precipitation or leachate. This procedure is more fully described in the EEI Strategy Document (See Manufactured Gas plant Remediation Strategy, by the Edison Electric Institute Manufactured Gas Plant Subcommittee, April, 1993. See also, April 26, 1993 letter from Sylvia K. Lowrance, Director of EPA's Office of Solid

Waste to Regional Waste Management Directors in support of the EEI Strategy Document).

The "Phase 1" mixtures will be made to specifications that allow for easy handling and a TCLP concentration of benzene below 0.5 mg/l. The "Phase 1" mixtures will then be transported in sequence (according to the schedule in Attachment 1) by truck to the "B" rail hopper at the top of Falls Street. They will be dumped into the "B" rail hopper and proportionally mixed with coal fed from "A" hopper. The mixture ratios will be controlled by adjustable vibrating conveyors. Using both the variable speed of each conveyor and the initial mixture ratio created for the "Phase 1" mix, the final desired ratios of ingredients will be achieved (this will constitute Mix 1 and Mix 2 and diluted versions thereof).

A stockpile of the "Phase 1" mixtures will be prepared in advance, to avoid a situation where inadequate amounts of the mixtures cause the need to return to burning coal, only. The "Phase 1" mixtures prepared in advance can be temporarily stored on the lined, bermed stockpile, if amounts exceed the capacity of the rolloffs available on site. It may also be necessary to temporarily stage the "Phase 1" mixtures on "Area B" for brief periods as long as no such mixture exceeds TCLP concentration limits.

Returning to "Area B", a certain amount of solid materials will be rejected from the screening of the coal tar soil. Those rejected materials, consisting primarily of stone, rock, and building rubble, will be stored on the lined stockpile located beneath the Platt St. Bridge (see Figure 1). It will therefore be necessary to open the cap liner to allow material to be

added. If necessary, during the period when access to the lined storage facility is needed, polyethylene tarps may be used to cover the material overnight. Once access to the storage facility is no longer needed, the cap will be replaced and all seams will be solvent welded.

4.0 OPERATIONAL CONSIDERATIONS - GENERAL

As mentioned above, the "Phase 1" mixtures will be blended with pure coal at the rail hopper conveyors. Due to the orientation of the rail hopper conveyors, the "Phase 1" mixtures will be completely covered by coal on the primary conveyor leading to the crusher house. During the crushing operation, additional mixing of the coal and "Phase 1" mixes will take place. More intermixing will take place in the transfer towers and in the bunker loading operations. This will result in a final, well mixed, proportioned mixture falling into the coal bunkers.

The concentration of MGP residuals will be incrementally increased until an optimum mixture is reached. The "optimal blend" will be selected based on factors including but not limited to:

pulverizer capacity, plugging, and flow factors

precipitator efficiency and other air emission parameters

mill wear

ash quality

conveyor performance (slippage, build-up)

slag build-up (walls, burners)

pulverizer rejection rate

superheater and backpass plugging

economics (considering likely capacity factors and replacement power costs, NY State pollution fees, ash marketability, least cost alternative treatment options, etc.)

Load will be allowed to float throughout Weeks 0 through 3. During Week 4, testing will be done for high-load (67 MW, nominal), and low-load (33.5 MW, nominal) operating conditions.

4.1 Operator Awareness and Information Transfer: An "Operator's Log" will be maintained by plant personnel, under the direction of the shift supervisor. The log will contain all information included in Attachment 2 as well as all other pertinent operations information. The contents of this log shall also be provided to the contractor responsible for stack emissions testing and data accumulation.

5.0 INDUSTRIAL HYGIENE AND SAFETY

Personal and area air samples will be collected to identify and quantify occupational exposure to raw fuel constituents and combustion by-products. This testing will be performed by RG&E Health & Safety Dept. personnel. RG&E Industrial Hygiene and Safety personnel, in conjunction with Environmental Science and General Engineering Services will provide Health and Safety awareness training to involved RG&E employees at Beebee Station to meet

the requirements of OSHA Worker Right to Know regulations and RG&E Employee Safety rules. The contractor responsible for fuel preparation and overall project management at the site will assist in those briefings.

The site specific Health and Safety Plan ("HASP") is to be developed by the fuel blending contractor. The HASP will meet all requirements and guidance of the applicable State and Federal agencies. No work involving excavation of fuel blending will begin on the site until the New York State Department of Environmental Conservation has had an opportunity to comment on the HASP, and appropriate modifications have been made.

Industrial hygiene sampling will be done when mixed fuel is being handled, pulverized, transferred, and actually being burned in the unit. Emphasis will be placed on sampling during "optimal blend" burning periods.

6.0 SAMPLING AND ANALYSIS - GENERAL

The object of the test burn program is to compare ordinary coal burning parameters, emissions and residues with that of coal tar, coal tar soil and coal mixtures. Therefore, sampling will be done both prior to and during the coal tar test burn. For all sampling, whether water, ash, coal, tar or coal tar soil, there will be sufficient sample collected such that portions will remain available for future reference or splitting (exception: industrial hygiene monitoring and stack testing). A minimum of ten percent of the samples collected

will be analyzed in duplicate for QA/QC purposes unless otherwise noted.

Sampling during the test burn period is to be performed in accordance with accepted standard sampling practices. Exceptions to this rule are noted where applicable.

Any water or solid waste tests to be used in reaching environmental conclusions, shall be performed by a New York State ELAP-certified lab. Industrial hygiene tests will also be performed by a state and ABIH certified laboratory. All other tests (fuel) may be conducted by any RG&E approved lab or by RG&E's own laboratory, as long as the lab chosen remains consistent throughout the test burn program.

Each sample collected during the sampling program will be assigned a unique sampling number by the sample collector. The sample identification number will be an alphanumeric code identifying the project, media sampled, date, sample sequence, and baseline/test burn condition.

Example:

RGE-021594-BF1

Where:

RGE = Rochester Gas and Electric Corp.

021594 = February 15, 1994

B = Baseline (T = Test Burn)

F = Fly ash (S = coal tar soil, C = coal, P = Phase 1 mix, W = 003 discharge water, T = tar, B = bottom ash, M = final mix)

1 = First sample in sequence from that media

A summary of sampling events is located in the Table on page 16. Refer to Figures 1,2 and 3 for sampling locations.

All sampling and analyses are to be described in the site specific sampling and analysis plan ("SAP"), to be developed by the contractor. That plan will contain a table or series of tables describing each sample type; number of samples to be collected; number to be analyzed; number to be archived for later analysis, if needed; analytes; identities of labs performing analyses; number of blind duplicates/spikes to be added in addition to the laboratories' normal quality control practices; etc.

6.1 Sampling location 1 - coal (baseline and throughout test burn): This sample will be collected in the manner usual for coal. This sampling is necessary due to the inherent variability of coal. Typically, coal enters the bunker through a system of chutes and conveyors. An automatic sampler collects a primary sample from the chute, every 20 minutes during which coal is being loaded into the bunkers. The daily composite is taken to the RG&E lab early the following morning. On a daily basis, the lab adds a portion of the previous day's composites to the samples collected prior. Approximately weekly, regular coal analyses are performed on one aliquot of that mixture. The remainder is archived for 3

months in RG&E's laboratory Bld'g. 13, located at the foot of Suntru Street in the City of Rochester.

During the test burn, analytical data from the week immediately prior to the start of the test burn will be used as baseline information. The frequency of coal sampling will not change from that typically performed (i.e. one composite sample per day). During the actual test burn however, it will be necessary to collect the coal samples prior to its being mixed with coal tar or coal tar soil. In this case, samples will be collected as grabs from the trucks carrying coal to the track hopper house. Grab samples will be collected from approximately every other truck. The method of collecting representative samples is to be specified by RG&E's Chemistry Services lab personnel in consultation with the contractor responsible for data accumulation during 0 week. Samples will be composited into a 5 gallon pail and moved to the RG&E lab daily. It will not be necessary to modify the analysis frequency during the test burn. It will remain at 1 sample per week to be analyzed.

6.2 Sampling location 2 - coal tar soil (throughout test burn): This sample will be collected prior to blending with coal. It will be collected from a location immediately following the portable screening plant. The sample will be collected using a pre-cleaned, decontaminated stainless steel trowel. Four grab samples per day will be collected each day the screening plant is operational. The grab samples will be composited in a stainless steel bowl and mixed with a stainless steel spoon. After mixing, a single composite will be collected in a 1 liter glass jar with a teflon cap liner. These composite samples will be archived. Only one

sample per week will be analyzed. It shall be chosen at random on Friday from all similar samples collected that week. Those samples not analyzed on a weekly basis will be retained in a refrigerator in RG&E's Chemistry Services Lab (Bld'g. 13) until they are no longer necessary (not longer than four weeks).

At least 1 composite sample will be collected prior to the start of the test burn. A total of four composite samples will be collected and analyzed unless conditions require the analysis of one or more of the archived samples.

6.3 Sampling location 3 - pure tar (throughout test burn): These samples will be collected after the tar is excavated from the ground but prior to mixing with coal or coal tar soil. Since a relatively small amount of tar will be excavated and blended with coal, it will be adequate to collect one grab sample per day of excavation. The samples will be collected directly from the bucket of the backhoe. The samples will be collected using a pre-cleaned, decontaminated stainless steel trowel and placed in a 500 ml., wide-mouth glass jar with a teflon cap liner and archived in a refrigerator at RG&E's Chem Lab (Bld'g. 13). The samples will not be analyzed unless results of other analyses (e.g. Phase 1 mix) indicate the necessity to do so. No more than 5 samples of this material will be collected. If visually different tars are encountered, samples of each type will be collected and volumetric estimates will be developed by the contractor's resident field engineer.

6.4 Sampling location 4 - phase 1 mix (throughout burn of Mix 1 and Mix 2): This sample is to be collected from each load of material mixed in the rolloffs in "Area B". Composite samples will be collected from each completely mixed batch using a pre-cleaned, decontaminated, stainless steel trowel and thoroughly mixed in a stainless steel bowl. A single composite will then be collected for each days worth of mixing of a single fuel type. If another mixture is prepared (for example, changing from a mix of tar and coal to a mix of coal tar soil and coal), a new composite sample will be started.

The composite sample is to be collected in a wide mouth glass jar with a teflon cap liner. A portion of this sample will be used to determine the likelihood of the Phase 1 mix failing the test for hazardousness by analyzing the sample for total benzene by a screening technique known as the micro scale extraction or MSE (a technique developed by the Electric Power Research Institute). Experiments are currently being conducted which will establish the Phase 1 mixture ratios (of coal tar and coal) necessary to pass the TCLP test. In addition, a correlation will be established between the MSE screening technique and the TCLP using samples of coal tar and coal from this site. This will allow the screening test to be used to get virtually real time results on these composite samples, thereby improving the accuracy of daily mixing efforts and minimizing the possibility that any one mixture will be too concentrated. No batch of mixed materials will be allowed to be stored in other than RCRA 90-day storage containers or burned until analytical results indicate that the batch is not hazardous.

The balance of composite samples will be retained (archived) under refrigeration until needed.

6.5 Sampling location 5 - final blend (throughout burn of Mix 1 and Mix 2): This material will be the mixture of fuel actually burned in Unit 12. The samples will be collected prior to loading into the storage bunkers from the bunker loading conveyor area. They will be collected from the automatic sampler used for normal coal samples. The sampling system collects a sample every 20 minutes while the bunkers are being loaded. It collects a portion (5%) of the fuel mixture passing through the sample crusher. The sample is diverted into a 5 gal. plastic pail which is collected daily by coal handling staff. It is shipped by a Beebee Station driver to RG&E's Chem Lab daily. For this project, the Chemistry Services staff will use a pre-cleaned, decontaminated, stainless steel scoop to prepare a weighted composite from each three consecutive days of bunker loading of the same fuel type. A portion of each day's discreet sample will be archived by the lab until the end of the test burn program for use only if needed. This will triple the number of fuel samples currently run by the lab. A total of approximately 4 samples of each type of mixture (two mixture types) will be collected over the 4 week test burn period (2 per week for each fuel mix).

6.6 Sampling location 6 - CTF discharge: (baseline and throughout test burn): This sample set will monitor the impact, if any, on wastewater exiting Beebee Station's central wastewater treatment facility prior to its discharge into the Genesee River. The method of collection of the sample will not be altered from that used to collect samples for compliance monitoring of the discharge. One sample will be collected on an 24-hour composite basis on one day during

which Mixture 1 is being burned and another sample will be collected in an identical manner when Mixture 2 is being burned. Samples will be collected in pre-cleaned, decontaminated containers. Data will be compared with that from the most recent sampling event from the CTF discharge during which coal, only was being burned.

6.7 Sampling location 7 - bottom ash (baseline and throughout test burn): This sample will be collected from the dog house over the clinker grinder. The reservoir must be completely cleaned prior to the test burn of each type of fuel mixture at optimum concentrations. In this way, the sample will not be adulterated by ash from previous mixtures. One sample of bottom ash will be collected from coal only as a baseline sample. One sample will be collected during the stack test for Mixture 1. One sample will be collected during the stack test for Mixture 2.

6.8 Sampling location 8 - fly ash (baseline and throughout test burn): Fly ash samples can be collected by the automatic compositing sampler located on the No. 6 precipitator hopper vacuum line. Prior to any samples being collected, the precipitator hopper and the sample jar (1 liter, minimum) must be completely cleaned so as to minimize the possibility of cross contamination of the sample by ash from other fuel mixtures. One sample of fly ash will be collected from coal only as a baseline sample. One sample will be collected during the stack test for Mixture 1. One sample will be collected during the stack test for Mixture 2.

6.9 Sampling summary: The sampling schedule is summarized in the table below. This sampling schedule will be refined by the contractor in its SAP.

SAMPLING SCHEDULE

	Media Code	Sampling Location	Baseline Sampling*	Test Burn Sampling*
Fuel Streams				
Coal	C	1	Results to be used from 1 previous week	1 composite/wk from conveyor prior to crusher (5 total)
Coal tar soil	S	2	None collected	1 composite/day of screening (max. of 4 to be analyzed); (composite = 4 grabs/day)
Pure tar	T	3	None collected	1 grab/day of excavation (max. of 5 to be collected)
Phase 1 mix	P	4	None collected	1 composite/day of mixing (max. of 2 samples collected for TCLP per mixture-Mix 1&2; + 10 screen)
Final mix	M	5	None collected	1 composite/day of blending in the Station (max. of 5 samples for each mixture - Mix 1 & Mix 2)
Waste Streams				
CTF wastewater	W	6	None collected (use historic data)	1-24 hr. composite/mixture
bottom ash	B	7	1 composite from previous day burning same coal	1 composite per mixture
fly ash	F	8	1 composite from previous day burning same coal	1 composite per mixture

* Sample totals do not include duplicates necessary to meet the 10% duplicate requirement for QA/QC purposes.

7.0 ANALYTICAL PROGRAM

The analytical program for fuel stream samples (coal, coal tar soil, tar, final mixes) and waste stream samples is presented in the following tables. Those tables specify analytes, acceptable methods, and schedule.

A total of 10% of the samples in each group will be collected in duplicate for QA/QC purposes.

All samples are to be placed on ice or in a refrigerator to be stored at 4° C immediately following sample collection. All preservatives required (e.g. refrigeration, acidification of metals samples in water matrix) by the respective methods, are to be documented on appropriate chain-of-custody forms. Materials of construction of all sample containers must conform to appropriate methodology. The contractor is responsible for ensuring that these steps are taken. The SAP will describe these steps as needed.

Stack Testing: Stack emissions testing is to be performed on Unit 12 during the coal tar soil test burn. The contractor will perform stack testing for each of the constituents listed in the table on the following page unless the parameter is shown to be monitored by the CEM system. Standard reference methods shall be used for all parameters. Each constituent will be sampled a minimum of three times (three repetitions) (or continuously, in the case of the use of CEMs) for high load conditions (67 MW, nominal). Stack tests will be arranged in a series of repetitions, which includes the generation of field data, sample collection and

equipment calibration checks. The testing will consist of three repetitions and cover specific test burn conditions.

STACK TESTING PARAMETERS

PARAMETERS	METHODS
total particulates	standard reference methods
carbon monoxide	standard reference methods
oxygen	standard reference methods
polycyclic aromatic hydrocarbons (PAH)	standard reference methods
hydrogen chloride	standard reference methods
carbon dioxide	CEM, standard reference methods
nitrogen oxides	CEM, standard reference methods
sulfur dioxide	CEM, standard reference methods
opacity	CEM, standard reference methods

The second, or middle repetition, of the series will include soot blowing.

Testing of all constituents will be conducted simultaneously during each repetition. Each test repetition takes from 70 minutes to two hours to complete, except for PAH testing, which can take up to four hours.

At this rate, the test period (of three repetitions) is expected to be completed in one 8 to 12 hour day. Thus, no more than two 12-hour days are required for testing of each fuel mixture. An additional test day may be added to the test schedule for contingencies (equipment failure, plant delays, etc.).

The contractor will monitor operating conditions for the duration of the stack testing. The contractor will also access the "Operator's Log", a record of test burn characteristics to be kept by Beebee Station operations personnel. In addition, the form found in Attachment 2 will also be maintained to record data particularly important to the test burn. It will be modified as needed by General Engineering Services personnel.

8.0 COMMUNITY OUTREACH PROGRAM

Rochester Gas and Electric Corporation has met with success in its investigation and Phase 1 remediation of the West Station site. This success was due in part to the comprehensive community outreach program developed and administered by the Company and the Rochester Center for Environmental Information (CEI). It was RG&E's intention to again secure services from CEI for the Test Burn and additional research efforts planned for the site. Due to certain internal developments at CEI, they are unable to assist with the effort at this time. RG&E has, therefore secured CEI's Community Outreach Project Manager as an independent contractor to again fulfill that role.

According to its proposal, the contractor will pattern the effort after the work performed for the Phase I remediation. A copy of the proposal (Attachment 3) is enclosed as a means of describing the planned efforts and will form the basis of the formal community outreach program. A written community outreach plan will be completed prior to beginning any activities on the site.

In addition to the services provided directly by the community outreach consultant, a fund is to be established through the consultant, to absorb the costs of an independent mammalian toxicologist, hydrogeologist, ecotoxicologist, and risk communications consultant. These personnel will serve as independent third party reviewers and interpreters of data and information available from RG&E, regulatory agencies, and other sources. The principal reason for this portion of the effort is to develop a set of facts concerning the project and the site which are understandable by the general community, thereby allowing it to make informed decisions, responses, reactions and recommendations to RG&E and the regulatory agencies about the project.

FUEL STREAM ANALYTICAL PROGRAM

Analytical Parameters	Method
Coal and final mix:	
Moisture content (%)	ASTM D2013, D3302,D3173
Ash content (% as rec'd)	ASTM D3174
Heat content (BTU/lb as rec'd)	ASTM D1989
Sulfur (% as rec'd)	ASTM D4239
Volatile matter	ASTM D3175
Fusion	ASTM D1857
Hardgrove Grindability Index (HGI)[1]	ASTM D409
Carbon, Hydrogen	ASTM D3178
Nitrogen	ASTM D3179
TCLP benzene (mg/l leachate)[2,3]	To be determined*
Polynuclear Aromatic Hydrocarbons[2,3]	To be determined*
Phase 1 mix:	
total benzene (ppm)	To be determined*
TCLP benzene (mg/l leachate)[3]	To be determined*
Coal tar soil:	
Moisture content (%)	ASTM D2013, D3302,D3173
Ash content (% as rec'd)	ASTM D3174
Polynuclear aromatic hydrocarbons (ppm)	To be determined*
Heat content (BTU/lb as rec'd)	ASTM D1989
Coal tar:	
total benzene (ppm)	To be determined*
TCLP benzene (mg/l leachate)[3]	To be determined*
Heat content (BTU/lb as rec'd)	ASTM D1989

* Sample preparation and screening techniques are now under investigation.

[1] Sample to be collected from truck (prior to automatic sampler) since the crushing performed by the sampler would interfere with the analysis. Samples must be collected for this parameter during week 0 and week 4.

[2] To be performed on final mixture only.

[3] Non-routine. Test to be performed on no more than 25% of analyzed samples.

WASTE STREAM ANALYTICAL PROGRAM

Analytical Parameters	Method
Fly ash:	
Loss on ignition	ASTM C114
Fineness	ASTM C430
Metals[1]	ASTM E885
Specific gravity	ASTM C188
pH	EPA SW 9045
PAH	To be determined ← TCLP (metals only)
Bottom ash:	
Metals	ASTM E885 ← TCLP (metals only)
CTF Discharge:	
Metals	
Fe	SM17[1] 3120B
Cu	SM17 3120B
Zn	SM17 3120B
Ni	SM17 3120B
Mn	SM17 3120B
Cr^{+6}	SM16[2] 312B
tot. Cr	SM17 3120B
Hg	EPA 245.1
Pb	SM17 3113B
As	SM17 3113-4d
Se	SM17 3113B
Cd	SM17 3120B
Oil & grease	SM17 5520B
TSS	EPA 160.2
pH	EPA 150.1
Phenols	EPA 420.2
Total resid. Cl	EPA 330.1

[1] Non-routine. Test to be performed on no more than 25% of analyzed samples.

NOTE: Analytes and methods may be altered to improve program design in the final SAP.

ANALYSIS SUMMARY

Media	Baseline	Test burn	Total
Fuel streams:			
Coal tar soil[1]	0	4	4
Pure tar	0	0*	0
Phase 1 mix	0	4 (TCLP), 10 (screen)	14
Coal	1	4	5
Final mix[1]	0	8	8
TOTAL			**31**
Fly ash	1	4	5
Bottom ash	1	4	5
CTF Discharge	1	2	3

* C = composite

[1] Sample collected for this parameter must be taken prior to the automatic sampler. Crushing by this sampler interferes with the analytical technique.

NOTE: Sample totals do not include QA/QC samples. Number and type of samples may be modified in the final SAP.

(DATE: 1 MARCH 1994)

APRIL 18 — MAY 16

TIME	WEEK 0 M	T	W	TH	F	S	S	S	WEEK 4 M	T	W	TH	F	S	S
GAVATTS															
DAL															
X 1												67*			
X 2															
DAD RESTRICTIONS	*					Y	Y		67*						*
DX (CEM)	Y														
02 (CEM)	Y														
02 (CEM)	Y														
ACITY (CEM)	Y														
TACK SAMPLING															
PARTICULATE									Y	Y			Y	Y	
CO									Y	Y			Y	Y	
02									Y	Y			Y	Y	
HCL									Y	Y			Y	Y	
PAH									Y	Y			Y	Y	
NOX									Y	Y			Y	Y	
CO2									Y	Y			Y	Y	
SO2									Y	Y			Y	Y	
RECIP. EFFICIENCY									Y	Y			Y	Y	
OILER EFFICIENCY									Y	Y			Y	Y	
Y ASH SAMPLE	Y								C Y	Y			C Y	Y	
M ASH SAMPLE	Y								C Y	Y			C Y	Y	
AMPLE	Y								Y	Y	Y	Y	Y	Y	
F SAMPLE		Y													
Y ASH TOTAL	Y									Y				Y	
OTTOM ASH TOTAL	Y									Y				Y	
OILER INSPECTION															
FURNACE WALLS	AM								AM	AM	AM	AM	AM	AM	
NOSE	AM								AM	AM	AM	AM	AM	AM	
SUPERHEATER	AM								AM	AM	AM	AM	AM	AM	
PULVERIZER	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y	Y	
HEM LAB TESTS:															
FLY ASH	Y									Y				Y	
BOTTOM ASH	Y									Y				Y	
COAL AM	Y										Y			Y	
COAL PM	Y										Y			Y	
R HEATER LEAKAGE									Y	Y					
XHAUSTER															
PIPING ΔP	Y														
HUMIDITY	Y														

LEGEND:

N = NO

Y = YES

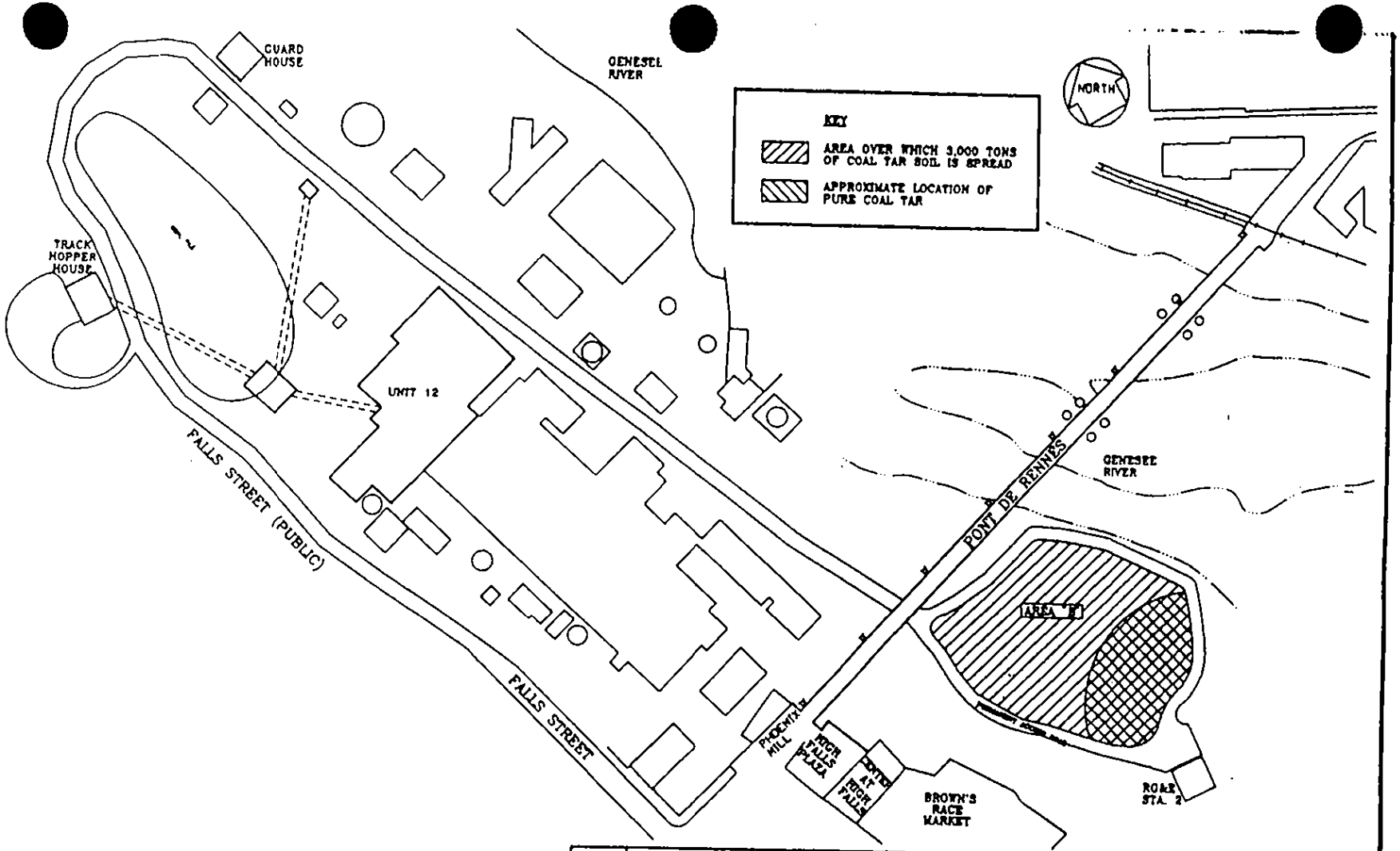
AM = MORNI

C = CLEAI

1 = DERA

67 = NOMI

67* = TRY
RING



△						
△						
0	ORIGINAL	INITIAL	JPX			
		DATE	11/16/93			
NUMBER	REVISION	DRAWN BY	CHECKED	RESP. ENG.	ENV. MANG'R.	

SITE LOCATION MAP -- BEEBEE STATION

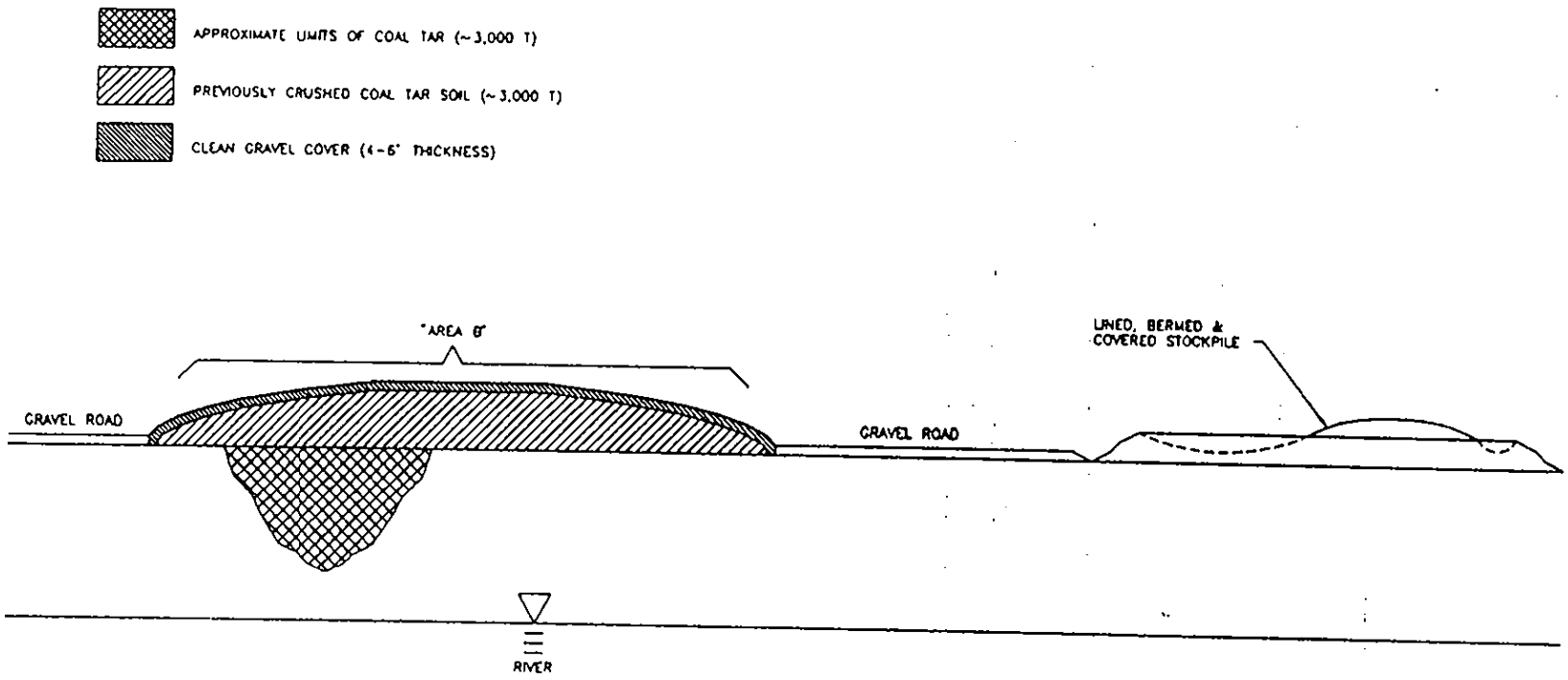
FACILITY: BEEBEE STATION

SCALE: NONE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK

FIGURE 1

REV. 0



△						PROFILE OF MGP DEPOSITS & STORAGE FACILITY	
△						FACILITY BEEBEE STATION	ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK
0	ORIGINAL	INITIAL: JPK; DATE: 11/18/03				SCALE NONE	
NUMBER	REVISION	DRAWN BY	CHECKED	RESP. ENG.	ENVIL. MANGR.	FIGURE 2	REV. 0

ATTACHMENT 2

UNIT 12 NOX TESTING

TEST NUMBER: _____ PERFORMANCE SCAN Y/N 1/HOUR

DATE: _____ TIME: _____

UNIT LOAD: _____ GROSS _____ NET

MILL AMPS:	A	B	C	VOLTS
	_____	_____	_____	_____

COAL SUPPLY:	Y/N	Y/N	Y/N
EXHAUSTER BIAS: %	_____	_____	_____
GUILLOTINE DAMPER:	O/C	O/C	O/C
HOT AIR DAMPER:	O/C	O/C	O/C
FEEDER AIR DOOR:	O/C	O/C	O/C

DAMPER SETTINGS:

	UPPER AUX AIR	UPPER OIL AIR	LOWER OIL AIR	LOWER AUX AIR	UPPER COAL AIR	CENTER COAL AIR	LOWER COAL AIR
	___	___	___	___	___	___	___
EXHAUSTER BIAS: %					___	___	___

BURNER TILT: +=UP, -=DOWN, # DEGREES _____

	-- TEMP ---			SECOND	-- O2 -		--- CEM ---			ID FAN
TIME	COAL AIR	SH	RH	AIR PR	NO	SO	NOX	CO2	SO2	AMPS
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____
___	_____	___	___	_____	___	___	___	___	___	_____

BOILER INSPECTION:

WALLS: _____
_____
_____

NOSE: _____

SUPHT: _____ (FINAL OUTLET)

FLAME CONDITION: _____

INCHES FROM NOZZLE: _____

FIREBALL CONDITION: _____

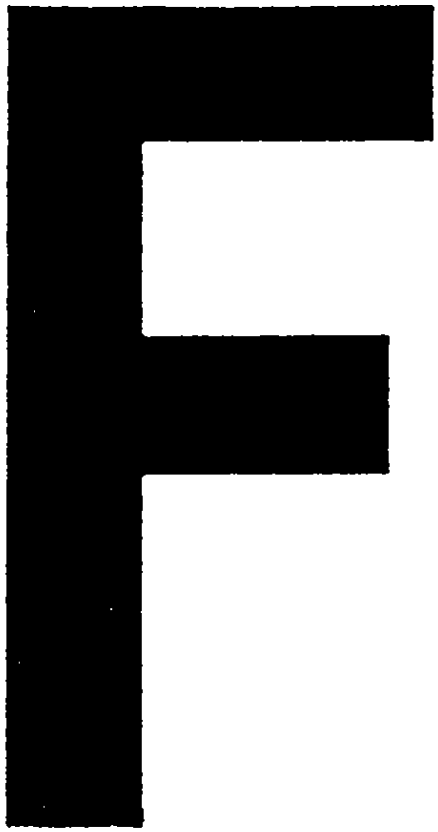
CTF DISCHARGE WATER Y/N

FEEDER COAL SAMPLE Y/N

FLY ASH COLLECTION Y/N

BOTTOM ASH COLLECT. Y/N

REMARKS: _____



APPENDIX F

PHASE III FUEL STREAM LABORATORY DATA
1. META TOTAL BENZENE RESULTS
2. PHOENIX RESULTS
3. RG&E CHEM LAB RESULTS

Total Benzene Results for RG&E West Station Phase 3 Samples, in ppm (mg/kg, dry weight)

Pile Number	Field ID	Lab ID	Total Benzene		Percent Solids	Comments
7	RGE-112895-S37-P7	RG951129-01	3.0		87.9%	Composite of 20 Grabs
7	RGE-112895-S38-P7	RG951129-02	0.5	U	87.5%	Composite of 20 Grabs
–	Method Blank	RG951130-MB	0.5	U		
7	RGE-113095-S39-P7	RG951201-01	1.2		87.1%	Composite of 20 Grabs
7	RGE-113095-S40-P7	RG951201-02	1.3		88.8%	Composite of 20 Grabs
7	RGE-113095-S41-P7	RG951201-03	0.77		84.6%	Composite of 20 Grabs
7	RGE-113095-S41-P7 DUP	RG951201-04	0.87	J	84.9%	Composite of 20 Grabs
–	Method Blank	RG951201-MB	0.5	U		
8	RGE-120195-S43-P8	RG951204-01	1.8		86.2%	Composite of 20 Grabs
8	RGE-120195-S44-P8	RG951204-02	1.8		85.9%	Composite of 20 Grabs
–	Method Blank	RG951204-MB	0.5	U		
9	RGE-020896-M1-P9	RG960209-12	8.5		66.9%	Composite of 4 Grabs
10	RGE-020896-M2-P10	RG960209-13	15		70.2%	Composite of 4 Grabs
11	RGE-020896-M3-P11	RG960209-14	16		60.4%	Composite of 4 Grabs
12	RGE-020896-M4-P12	RG960209-15	41		68.4%	Composite of 4 Grabs
13	RGE-020896-M5-P13	RG960209-16	51		65.6%	Composite of 4 Grabs
–	Method Blank	RG960209-MB2	0.5	U		
14	RGE-020996-M6-P14	RG960213-01	11		62.5%	Composite of 4 Grabs
–	Method Blank	RG960213-MB2	0.5	U		
15	RGE-021396-M8-P15	RG960214-01	16		65.1%	Composite of 4 Grabs
16	RGE-021396-M9-P16	RG960214-02	30		60.3%	Composite of 4 Grabs
–	Method Blank	RG960214-MB2	0.5	U		
17	RGE-021496-M10-P17	RG960215-01	30.9		76.9%	Composite of 4 Grabs
18	RGE-021496-M11-P18	RG960215-02	45.4		78.5%	Composite of 4 Grabs
18	RGE-021496-M11-P18DUP	RG960215-03	53.6		75.6%	Composite of 4 Grabs
13	RGE-021496-M12-P13	RG960215-04	12.4		76.4%	Composite of 4 Grabs
–	Method Blank	RG960215-MB	0.5	U		
–	Laboratory Dupe	RG960215-04DUP	15.7		76.4%	
19	RGE-022296-M14-P19	RG960223-01	59		69.4%	Composite of 20 Grabs
	RGE-022296-M15	RG960223-02	116		62.9%	Batch 29 Grab Sample
–	Method Blank	RG960227-MB	0.5	U		
20	RGE-022996-M17-P20	RG960301-01	33.3		64.2%	Composite of 10 Grabs
21	RGE-022996-M18-P21	RG960301-02	27.6		72.5%	Composite of 10 Grabs
–	Method Blank	RG960301-MB	0.5	U		
22	RGE-030796-M20-P22	RG960311-02	22.8		72.0%	Composite of 20 Grabs
–	Method Blank	RG960312-MB	0.5	U		
25	RGE-040196-M26-P25	RG960402-01	29.3		81.5%	Composite of 10 Grabs
26	RGE-040196-M27-P26	RG960402-02	26.8		79.7%	Composite of 10 Grabs
27	RGE-040196-M28-P27	RG960402-03	63.7		82.1%	Composite of 10 Grabs
–	Method Blank	RG960402-MB	0.5	U		
28	RGE-040896-M31-P28	RG960410-05	50.3		69.7%	Composite of 10 Grabs
–	Method Blank	RG960410-MB	0.5	U		

U = Non-detected at quantitation limit shown
J = Estimated value, below calibration range

META

Total Benzene Results for RG&E West Station Phase 3 Samples, in ppm (mg/kg, dry weight)

Pile Number	Field ID	Lab ID	Total Benzene		Percent Solids	Comments
1	RGE-102795-S1	RG951028-01	1.1		85.5%	Composite of 20 Grabs
1	RGE-102795-S2	RG951028-02	1.1		84.9%	Composite of 20 Grabs
–	Laboratory Dupe	RG951028-01DUP	2.2		85.5%	
–	Method Blank	RG951030-MB	0.5	U		
1	RGE-102795-S3	RG951031-01	2.7		88.2%	Composite of 20 Grabs
1	RGE-102795-S4	RG951031-02	3.8		87.2%	Composite of 20 Grabs
1	RGE-102795-S5	RG951031-03	2.3		88.0%	Composite of 20 Grabs
–	Method Blank	RG951031-MB	0.5	U		
2	RGE-103195-S7	RG951102-01	0.92		86.5%	Composite of 20 Grabs
2	RGE-103195-S8	RG951102-02	0.90		88.0%	Composite of 20 Grabs
2	RGE-110195-S9	RG951102-03	0.81		83.1%	Composite of 20 Grabs
–	Method Blank	RG951102-MB	0.5	U		
–	Laboratory Dupe	RG951102-02DUP	0.84		88.0%	
–	Method Blank	RG951106-MB	0.5	U		
2	RGE-110395-S10-P2	RG951106-01	1.5		87.6%	Composite of 20 Grabs
2	RGE-110395-S11-P2	RG951106-02	1.9		87.6%	Composite of 20 Grabs
2	RGE-110395-S11-P2DUP	RG951106-03	1.2		91.1%	Composite of 20 Grabs
–	Laboratory Dupe	RG951106-03DUP	1.1		91.1%	
3	RGE-110695-S13-P3	RG951107-03	1.2		88.4%	Composite of 20 Grabs
3	RGE-110695-S14-P3	RG951107-04	1.5		85.9%	Composite of 20 Grabs
3	RGE-110695-S15-P3	RG951107-05	0.78		83.7%	Composite of 20 Grabs
3	RGE-110695-S16-P3	RG951107-06	0.74		86.3%	Composite of 20 Grabs
–	Method Blank	RG951107-MB	0.5	U		
3	RGE-110695-S17-P3	RG951109-05	1.5		87.7%	Composite of 20 Grabs
–	Method Blank	RG951109-MB	0.5	U		
4	RGE-110895-S19-P4	RG951109-01	0.58		87.2%	Composite of 20 Grabs
4	RGE-110895-S20-P4	RG951109-02	1.2		86.4%	Composite of 20 Grabs
4	RGE-110895-S21-P4	RG951109-03	1.6		88.9%	Composite of 20 Grabs
4	RGE-110895-S22-P4	RG951109-04	3.6		88.8%	Composite of 20 Grabs
–	Method Blank	RG951109-MB	0.5	U		
–	Laboratory Dupe	RG951109-01DUP	0.99		87.2%	
4	RGE-110995-S23-P4	RG951110-01	1.8		87.4%	Composite of 20 Grabs
4	RGE-110995-S23-P4 DUP	RG951110-02	2.5		88.3%	Composite of 20 Grabs
–	Method Blank	RG951110-MB	0.5	U		
5	RGE-110995-S25-P5	RG951115-01	2.3		86.8%	Composite of 20 Grabs
5	RGE-111495-S26-P5	RG951115-02	0.5	U	85.3%	Composite of 20 Grabs
5	RGE-111495-S27-P5	RG951115-03	1.0		88.3%	Composite of 20 Grabs
5	RGE-111495-S28-P5	RG951115-04	3.6		85.9%	Composite of 20 Grabs
5	RGE-111495-S29-P5	RG951115-05	3.3		88.0%	Composite of 20 Grabs
–	Method Blank	RG951115-MB	0.5	U		
6	RGE-111695-S31-P6	RG951122-01	2.6		86.2%	Composite of 20 Grabs
6	RGE-111695-S32-P6	RG951122-02	0.98		88.0%	Composite of 20 Grabs
6	RGE-111695-S33-P6	RG951122-03	1.6		87.7%	Composite of 20 Grabs
6	RGE-111695-S34-P6	RG951122-04	1.7		86.4%	Composite of 20 Grabs
6	RGE-111695-S35-P6	RG951122-05	2.0		90.6%	Composite of 20 Grabs
6	RGE-111695-S35-P6 DUP	RG951122-06	1.8		87.0%	Composite of 20 Grabs
–	Laboratory Dupe	RG951122-03DUP	2.2		87.7%	
–	Method Blank	RG951122-MB	0.5	U		

U = Non-detected at quantitation limit shown
J = Estimated value, below calibration range

META

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
JUN 24 1996

June 21, 1996

Fluor Daniel GTI, Inc
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AB02333 To AB02335

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 21, 1996

FOR: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	06/13/96	16:00
Location Code:	GRNDTECH	Received by:	SW	06/14/96	11:30
Project Code:		Validated by:	BP	06/18/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 061396-M56-P45** Phoenix I.D.: **AB02333**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	190	10	ug/L	06/17/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			06/17/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 21, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 21, 1996

FOR: **Attn: Mr. Brian Carey**
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	06/13/96	16:00
Location Code:	GRNDTECH	Received by:	SW	06/14/96	11:30
Project Code:		Validated by:	LC	06/19/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION M57-P43P44P45 Phoenix I.D.: **AB02334**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			06/17/96	ES	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	06/18/96	EK	E1311/SW6010
TCLP Barium	0.27	0.01	mg/L	06/18/96	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	06/18/96	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	06/18/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	06/18/96	EK	E1311/SW6010
TCLP Selenium	BDL	0.02	mg/L	06/18/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	06/18/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			06/17/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	06/17/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			06/17/96	ES	EPA 1311
TCLP Extraction Semi-Vol	Completed			06/18/96	E/J	EPA 1311
******* TCLP Volatiles *******		0				
Benzene	44	10.0	ug/L	06/17/96	HC	SW 8020
Methyl ethyl ketone	27	10.0	ug/L	06/17/96	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	170	10.0	ug/L	06/18/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	60	10.0	ug/L	06/18/96	SS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	06/18/96	SS	SW 8270
Nitrobenzene	ND	10.0	ug/L	06/18/96	SS	SW 8270
Pyridine	ND	10.0	ug/L	06/18/96	SS	SW 8270

 Client ID: RG&E W STATION M57-P43P44P45 Phoenix I.D.: AB02334

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 21, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

June 21, 1996

To: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB02335 Location code: GRNDTECH
Location Description: RG&E W STATION QC02333-34
Sample collector: BC
Sample collection date: 06/13/96 Time: 16:00
Lab submittal date: 06/14/96 Time: 11:30
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	108%	109%	1%
Chlorobenzene	ND	96%	98%	2%
1,1-Dichloroethylene	ND	92%	93%	1%
Toluene	ND	107%	109%	2%
Trichloroethylene	ND	93%	93%	0%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	101%	98%	3.0%
4-Chloro-3-methylphenol	96%	93%	3.2%
2-Chlorophenol	82%	79%	3.7%

Data for Semivolatile QC Data (MS) (continued):

1,4-Dichlorobenzene	83%	80%	3.7%
2,4-Dinitrotoluene	97%	94%	3.1%
N-Nitroso-di-n-propylamin	96%	91%	5.3%
Pentachlorophenol	99%	92%	7.3%
Phenol	76%	74%	2.7%
Pyrene	116%	113%	2.6%
1,2,4-Trichlorobenzene	98%	94%	4.2%
4-Nitrophenol	22%	20%	9.5%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	87	76	8.8
Hg Mercury	<0.005	99	71	0.0
Pb Lead	<0.005	107	93	0.6
Sb Antimony	<0.005	106	95	0.0
Se Selenium	<0.005	94	77	0.0
Tl Thallium	<0.005	93	89	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	104	0.0
Ni Nickel	<0.05	102	96	0.0
Na Sodium	<0.10	108	94	4.2
Cd Cadmium	<0.01	110	100	1.6

Data for ICP Metals Analysis QC:

QC Source: ERA 9970 QCI-710(1:10) ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	104	98	NC
Al Aluminum				
As Arsenic	<0.05	108	107	NC
B Boron				
Ba Barium	<0.01	102	93	0.0
Be Beryllium	<0.01	99	104	NC
Ca Calcium				
Cd Cadmium	<0.01	105	95	NC
Co Cobalt	<0.01	96	100	NC

Data for ICP Metals Analysis QC (continued):

Cr	Chromium	<0.01	96	97	NC
Cu	Copper	<0.01	99	104	0.0
Fe	Iron				
K	Potassium				
Mg	Magnesium				
Mn	Manganese				
Mo	Molybdenum				
Na	Sodium				
Ni	Nickel	<0.01	110	92	0.1
P	Phosphorus				
Pb	Lead	<0.01	95	95	NC
Se	Selenium	<0.05	102	103	NC
Si	Silicon				
Sn	Tin	<0.01	104	101	NC
Sr	Strontium				
V	Vanadium	<0.01	97	98	NC
Ti	Titanium				
Zn	Zinc	<0.01	98	103	0.0
Zr	Zirconium				
Bi	Bismuth				
Sb	Antimony				
Tl	Thallium				

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: FLUOR DANIEL GTI
Address 60 EARHART #14
BUFFALO, NY 14221

Project: RGE W. STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 6/13/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	TCLP METALS	TCLP ORGANICS (PPE LIST)	VOA VIALS PL( ) HNO3 ( ) GL( )	PL( ) + NaOH ( ) GL( )	PL( ) AS ( ) GLASS	GL + H_2SO_4	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
	RGE 061396-MS6-P45	SOLID	6/13	1600	X				1					02333
	RGE 061396-MS7-P43P44P45	SOLID	6/13	1600		X	X		2					02334
														02335

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	Fed EX		
	Fed EX	S. Lutts	6-14-96	11:30

Comments: PLEASE FAX RESULTS TO:

K. HYLTON - 716 724-8683

B. CAREY 716 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

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June 14, 1996

Fluor Daniel GTI, Inc
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AB02004 To AB02006

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 14, 1996

FOR: **Attn: Mr. Brian Carey**
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	06/10/96	08:00
Location Code:	GRNDTECH	Received by:	SW	06/11/96	10:30
Project Code:		Validated by:	LC	06/13/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E WEST STATION 061096-T2** Phoenix I.D.: **AB02004**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	2600	10	ug/L	06/13/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			06/12/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 14, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 14, 1996

FOR: **Attn: Mr. Brian Carey**
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	06/10/96	10:00
Location Code:	GRNDTECH	Received by:	SW	06/11/96	10:30
Project Code:		Validated by:	LC	06/13/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 061096-M55-P44** Phoenix I.D.: **AB02005**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	100	10	ug/L	06/12/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			06/12/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 14, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

June 14, 1996

To: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB02006 Location code: GRNDTECH
Location Description: RG&E W STATION QC02004-05
Sample collector: BRIAN CAREY
Sample collection date: 06/10/96 Time: 10:00
Lab submittal date: 06/11/96 Time: 10:30
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	108%	109%	1%
Chlorobenzene	ND	96%	98%	2%
1,1-Dichloroethylene	ND	92%	93%	1%
Toluene	ND	107%	109%	2%
Trichloroethylene	ND	93%	93%	0%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: FLUOR DANIEL GTI
Address: 60 EARHART #14
BUFFALO NY 14221

Project: RG+E W. STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 6/10/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS PL( ) GL( ) HNO_3 ( )	PL( ) GL( ) + N_2OH ( )	PL( ) GL# AS( ) 15	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
	RGE061096-T2	SOLID	6/10/96	800	X			1				02004
	RGE061096-MSS-P44	SOLID	6/10/96	1000	X			1				02005
												02006 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	Fed Ex		
	Fed Ex	S. White	6-11-96	10:30

Comments:

PLEASE FAX RESULTS TO:

K. HYLTON - 716 - 724 - 8683

B. CAREY - 716 - 771 - 4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
JUN 14 1996

June 12, 1996

Fluor Daniel GTI, Inc
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AB01074 To AB01076

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 11, 1996

FOR: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	05/31/96	13:00
Location Code:	GRNDTECH	Received by:	SW	06/03/96	10:35
Project Code:		Validated by:	BP	06/11/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 053196-M52-P42** Phoenix I.D.: **AB01074**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	140	10	ug/L	06/05/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			06/04/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 11, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 11, 1996

FOR: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	05/31/96	13:00
Location Code:	GRNDTECH	Received by:	SW	06/03/96	10:35
Project Code:		Validated by:	LC	06/06/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Client ID: RG&E W STATION-M53-P40 P41 P42

Phoenix I.D.: AB01075

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			06/04/96	ES	EPA 1311
TCLP Arsenic	0.03	0.01	mg/L	06/05/96	EK	E1311/SW6010
TCLP Barium	0.35	0.01	mg/L	06/05/96	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	06/05/96	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	06/05/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	06/05/96	EK	E1311/SW6010
TCLP Selenium	BDL	0.02	mg/L	06/05/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	06/05/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			06/04/96	JM	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	06/04/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			06/04/96	ES	EPA 1311
TCLP Extraction Semi-Vol	Completed			06/05/96	PL	EPA 1311
******* TCLP Volatiles *******		0				
Benzene	110	10.0	ug/L	06/05/96	HC	SW 8020
Methyl ethyl ketone	15	10.0	ug/L	06/05/96	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	10	10.0	ug/L	06/06/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	36	10.0	ug/L	06/06/96	SS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	06/06/96	SS	SW 8270
Nitrobenzene	ND	10.0	ug/L	06/06/96	SS	SW 8270
Pyridine	71	10.0	ug/L	06/06/96	SS	SW 8270

Client ID: RG&E W STATION-M53-P40 P41 P42

Phoenix I.D.: **AB01075**

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 11, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

June 11, 1996

To: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB01076 Location code: GRNDTECH
Location Description: RG&E W STATION-QC01074-75
Sample collector: BRIAN CAREY
Sample collection date: 05/31/96 Time: 13:00
Lab submittal date: 06/03/96 Time: 10:35
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	99	97	0.0
Hg Mercury	<0.005	110	97	0.0
Pb Lead	<0.005	82	98	0.0
Sb Antimony	<0.005	108	102	0.0
Se Selenium	<0.005	90	92	0.0
Tl Thallium	<0.005	96	105	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	104	0.0
Ni Nickel	<0.05	102	96	0.0
Na Sodium	<0.10	108	94	4.2

Data for ICP Metals Analysis QC:

QC Source: ERA 9968 QCI-710(1:10) ERA 9960	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)

Data for ICP Metals Analysis QC (continued):

Analyte				
Ag Silver	<0.01	105	106	NC
Al Aluminum				
As Arsenic	<0.05	92	106	NC
B Boron	<0.10	108	94	0.0
Ba Barium	<0.01	104	91	1.5
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	112	104	3.2
Co Cobalt				
Cr Chromium	<0.01	105	104	4.2
Cu Copper	<0.01	102	110	1.1
Fe Iron	<0.01	105	92	0.0
K Potassium				
Mg Magnesium				
Mn Manganese	<0.01	99	89	0.0
Mo Molybdenum				
Na Sodium	<0.10	87	96	0.8
Ni Nickel	<0.01	106	86	1.1
P Phosphorus	<0.10	99	84	NC
Pb Lead	<0.01	106	104	NC
Se Selenium	<0.05	104	94	NC
Si Silicon	<0.10	98	105	5.5
Sn Tin	<0.01	102	109	3.4
Sr Strontium				
V Vanadium	<0.01	104	101	NC
Ti Titanium	<0.01	100	102	NC
Zn Zinc	<0.01	103	88	0.0
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	99%	95%	4%
Chlorobenzene	ND	101%	97%	4%
1,1-Dichloroethylene	ND	78%	81%	4%
Toluene	ND	100%	96%	4%
Trichloroethylene	ND	82%	79%	4%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	101%	98%	3.0%
4-Chloro-3-methylphenol	96%	93%	3.2%
2-Chlorophenol	82%	79%	3.7%
1,4-Dichlorobenzene	83%	80%	3.7%
2,4-Dinitrotoluene	97%	94%	3.1%
N-Nitroso-di-n-propylamin	96%	91%	5.3%
Pentachlorophenol	99%	92%	7.3%
Phenol	76%	74%	2.7%
Pyrene	116%	113%	2.6%
1,2,4-Trichlorobenzene	98%	94%	4.2%
4-Nitrophenol	22%	20%	9.5%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: ELVOR DANIEL GTI
Address 60 EARHART DR #14
BUFFALO NY 14221-

Project: RG&E W. STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 5-31-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene	TCLP Metals	TCLP Organics / Extract	VOA Vials	PL( ) HNO_3 ( ) GL( )	PL( ) $+ NaOH$ ( ) GL( )	PL( ) AS( ) GL( )	GL + H_2SO_4	Field + HNO_3 (Filtered (	Bacteria Bottle	PHOENIX SAMPLE #
	RGEOS3196-MS2-P42	SOLID	5/31	1300	X					1					01074
	RGEOS3196-MS3-P40P41P42	SOLID	5/31	1300		X	X			2					01075
															01076

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	6-3-96	10:35

Comments:

FAX RESULTS TO:
K HYLTON 716-774-8683
B. CAREY 716 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

RECEIVED
JUN 13 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

June 10, 1996

Fluor Daniel GTI, Inc
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AB01403 & AB01404

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

June 10, 1996

FOR: **Attn: Mr. Brian Carey**
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/04/96	01:00
Location Code:	GRNDTECH	Received by:	SW	06/05/96	10:20
Project Code:		Validated by:	LC	06/07/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 060496-M54-P43** Phoenix I.D.: **AB01403**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	230	10	ug/L	06/07/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			06/06/96	D/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
June 10, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

June 10, 1996

To: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB01404 Location code: GRNDTECH
Location Description: RG&E W STATION QC01403
Sample collection date: 06/04/96 Time: 01:00
Lab submittal date: 06/05/96 Time: 10:20
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike	40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene		ND	99%	95%	4%
Chlorobenzene		ND	101%	97%	4%
1,1-Dichloroethylene		ND	78%	81%	4%
Toluene		ND	100%	96%	4%
Trichloroethylene		ND	82%	79%	4%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: FLUOR DANIEL GTI
Address: 60 EARHART #14
BUFFALO, NY, 14221

Project: PG+E WEST STATION
Report To: B. CAREY, K. HYLTON
Invoice To: B. CAREY

Project P.O. _____
Phone #: (716) 771 4498
Fax #: (716) 771 4499

Client Sample - Information - Identification

Sampler's Signature _____ Date _____

X

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene	VOA VIALS PL( ) GL( ) HNO_3 ( )	PL( ) GL( ) * $NaOH$ ( )	PL( ) GL( ) AS ( )	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle ( )	PHOENIX SAMPLE #
1	RGE060496-MS1-MS	Soil	6/4/96	400	X			1				01403
												01404 DC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	[signature]	D. Miller	6-5-96	10:20

Comments: 48 HR TAT
Pls. fax results to
K. Hylton (716) 724-8683
B. Carey (716) 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
JUN 0 3 1996

May 29, 1996

Fluor Daniel GTI, Inc
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA99897 To AA99898

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 29, 1996

FOR: **Attn: Mr. Brian Carey**
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	05/21/96	10:30
Location Code:	GRNDTECH	Received by:	SW	05/22/96	11:15
Project Code:		Validated by:	LC	05/24/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E STATION RGE052196-M51-P41** Phoenix I.D.: **AA99897**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			05/23/96	ES	EPA 1311
TCLP Benzene	110	10	ug/L	05/23/96	HC	SW 8020

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 29, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 29, 1996

To: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA99898 Location code: GRNDTECH
Location Description: RG&E STATION QC99897
Sample collector: BRIAN CAREY
Sample collection date: 05/21/96 Time: 10:30
Lab submittal date: 05/22/96 Time: 11:15
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	104%	100%	4%
Chlorobenzene	ND	104%	100%	4%
1,1-Dichloroethylene	ND	82%	79%	4%
Toluene	ND	104%	101%	3%
Trichloroethylene	ND	80%	76%	5%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: FLUOR DANIEL GTI
Address: 100 EARHART #14
BUFFALO NY 14221

Project: RGE W. STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 5/21/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS	1 ML	1 ML	1 ML	1 ML	1 ML	PHOENIX SAMPLE #
	RGE052196-MW1-P41	SOLID	5/21	1030	X				1			9989F
												9989C

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	D. White	5-22	11:15

Comments:
FAX RESULTS TO:
K. HYLTON 716 724-8683
B. CAREY 716-771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 29, 1996

Fluor Daniel GTI, Inc
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA99671 To AA99672

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 29, 1996

FOR: **Attn: Mr. Brian Carey**
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	05/17/96	16:00
Location Code:	GRNDTECH	Received by:	SW	05/21/96	10:00
Project Code:		Validated by:	BP	05/24/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W. STATION 051796-M50-P40** Phoenix I.D.: **AA99671**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	140	10	ug/L	05/23/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/22/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 29, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 29, 1996

To: Attn: Mr. Brian Carey
Fluor Daniel GTI, Inc.
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA99672 Location code: GRNDTECH
Location Description: RG&E W. STATION QC99671
Sample collector: BC
Sample collection date: 05/17/96 Time: 16:00
Lab submittal date: 05/21/96 Time: 10:00
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	104%	100%	4%
Chlorobenzene	ND	104%	100%	4%
1,1-Dichloroethylene	ND	82%	79%	4%
Toluene	ND	104%	101%	3%
Trichloroethylene	ND	80%	76%	5%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: FLUOR DANIEL GTI
Address: 60 EARHART #14
BUFFALO, NY 14227

Project: BEE W. STATION
Report To: K. HYCTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X Brian Carey Date: 5/17/96

Item #	Customers Sample Ident	Sample Matrix	Date	Time
RGE051796-H50-P4Q	SOIL	5/17	1600

Analysis Requested

Item #	Relinquished by:	Accepted by:	Date:	Time:
	Brian Carey	J. Utter	5-21-96	10:00

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

Comments:
3 DAY TAT
FAX RESULTS TO
K HYCTON 716-724-8683
B CAREY 716-771-4498

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
MAY 2 9 1996

May 24, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA99228 To AA99230

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 23, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	05/14/96	10:00
Location Code:	GRNDTECH	Received by:	SW	05/16/96	11:25
Project Code:		Validated by:	BP	05/20/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 051496 M47-P39** Phoenix I.D.: **AA99228**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	180	10	ug/L	05/17/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/17/96	DF	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 23, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 23, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	05/14/96	10:00
Location Code:	GRNDTECH	Received by:	SW	05/16/96	11:25
Project Code:		Validated by:	LC	05/21/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG&E W STATION M48-P37P38P39** Phoenix I.D.: **AA99229**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			05/17/96	DF	EPA 1311
TCLP Extraction Metals	Completed			05/17/96	PL	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	05/17/96	EK	E1311/SW6010
TCLP Barium	0.41	0.01	mg/L	05/17/96	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	05/17/96	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	05/17/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	05/17/96	EK	E1311/SW6010
TCLP Selenium	0.03	0.02	mg/L	05/17/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	05/17/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			05/20/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	05/20/96	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			05/18/96	PL	EPA 1311
******* TCLP Volatiles *******		0				
Benzene	170	10.0	ug/L	05/17/96	HC	SW 8020
Methyl ethyl ketone	18	10.0	ug/L	05/17/96	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	46	10.0	ug/L	05/18/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	340	10.0	ug/L	05/18/96	SS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	05/18/96	SS	SW 8270
Nitrobenzene	ND	10.0	ug/L	05/18/96	SS	SW 8270
Pyridine	ND	10.0	ug/L	05/18/96	SS	SW 8270

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 23, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 23, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA99230 Location code: GRNDTECH
Location Description: RG&E W STATION QC99228-29
Sample collector: BC
Sample collection date: 05/14/96 Time: 10:00
Lab submittal date: 05/16/96 Time: 11:25
MATRIX: SOLID

Parameter	Result	Units	MDL
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	104%	100%	4%
Chlorobenzene	ND	104%	100%	4%
1,1-Dichloroethylene	ND	82%	79%	4%
Toluene	ND	104%	101%	3%
Trichloroethylene	ND	80%	76%	5%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	101%	98%	3.0%
4-Chloro-3-methylphenol	96%	93%	3.2%
2-Chlorophenol	82%	79%	3.7%

Data for Semivolatile QC Data (MS) (continued):

1,4-Dichlorobenzene	83%	80%	3.7%
2,4-Dinitrotoluene	97%	94%	3.1%
N-Nitroso-di-n-propylamin	96%	91%	5.3%
Pentachlorophenol	99%	92%	7.3%
Phenol	76%	74%	2.7%
Pyrene	116%	113%	2.6%
1,2,4-Trichlorobenzene	98%	94%	4.2%
4-Nitrophenol	22%	20%	9.5%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	98	108	6.2
Hg Mercury	<0.005	89	76	0.0
Pb Lead	<0.005	92	94	0.0
Sb Antimony	<0.005	104	100	0.0
Se Selenium	<0.005	91	91	8.0
Tl Thallium	<0.005	97	71	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	102	0.0
Ni Nickel	<0.05	102	96	0.0
Na Sodium	<0.10	108	94	4.2

Data for ICP Metals Analysis QC:

QC Source: ERA 9967 QCI-710(1:10) ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	99	105	0.0
Al Aluminum	<0.10	94	96	0.0
As Arsenic	<0.01	89	84	1.5
B Boron	<0.10	112	91	NC
Ba Barium	<0.01	110	99	0.0
Be Beryllium	<0.01	98	101	0.0
Ca Calcium	<0.10	103	101	0.2
Cd Cadmium	<0.01	102	94	0.0
Co Cobalt	<0.01	101	100	0.0
Cr Chromium	<0.01	98	102	0.0

Data for ICP Metals Analysis QC (continued):

Cu	Copper	<0.01	94	101	0.0
Fe	Iron	<0.01	101	96	0.0
K	Potassium	<0.10	107	98	1.7
Mg	Magnesium	<0.01	105	85	0.6
Mn	Manganese	<0.01	98	100	0.0
Mo	Molybdenum				
Na	Sodium	<0.10	84	94	1.4
Ni	Nickel	<0.01	100	101	0.0
P	Phosphorus				
Pb	Lead	<0.01	100	96	1.0
Se	Selenium	<0.01	93	71	0.0
Si	Silicon				
Sn	Tin				
Sr	Strontium				
V	Vanadium	<0.01	101	102	0.0
Ti	Titanium				
Zn	Zinc	<0.01	95	103	0.0
Zr	Zirconium				
Bi	Bismuth				
Sb	Antimony				
Tl	Thallium				

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #114
BUFFALO, NY 14221

Project: RG&E W. STATTON
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4499
Fax #: 716 771-4499

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 5-14-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene	TCLP Metals	TCLP Organics (Base/Neut List)	VOA Vials	PL( ) HNO_3 GL( )	PL( ) $NaOH$ GL( )	PL( ) As GL( )	GL + H_2SO_4	Field + HNO_3 Filtered	Bacteria Bottle	PHOENIX SAMPLE #
	RGE05146-M47-P39	SOLID	5/14	1000	X					1					99228
	RGE05146-M48-P37P38P39	SOLID	5/14	1000		X	X			2					99229
															99230 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	5-16-96	11:25

Comments: 48HR TAT
FAX RESULTS TO
K. HYLTON - 724-8683
B. CAREY - 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
MAY 2 4 1996

May 21, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA99226 & AA99227

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 20, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	05/15/96	16:45
Location Code:	GRNDTECH	Received by:	SW	05/16/96	11:25
Project Code:		Validated by:	BP	05/20/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 051596 M49-P38** Phoenix I.D.: **AA99226**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	230	10	ug/L	05/17/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/17/96	DF	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 20, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 20, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA99227 Location code: GRNDTECH
Location Description: RG&E W STATION QC99226
Sample collector: BC
Sample collection date: 05/15/96 Time: 16:45
Lab submittal date: 05/16/96 Time: 11:25
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	104%	100%	4%
Chlorobenzene	ND	104%	100%	4%
1,1-Dichloroethylene	ND	82%	79%	4%
Toluene	ND	104%	101%	3%
Trichloroethylene	ND	80%	76%	5%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 60 EARHART #14
BUFFALO, NY 14221

Project: RG+E W. STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 5/15/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS PL( ) HNO3 ( ) GL( )	PL( ) + NaOH ( ) GL( )	PL( ) AS( ) GL( )	GL + H2SO4 ( )	Field Filtered + HNO3 ( )	Bacteria Bottle ( )	PHOENIX SAMPLE #
	RGE051596-MW9-P38	SOLID	5/15	1645	X					1		9922[illegible]
												9922[illegible]QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	5-16-96	11:25

Comments: 48 HR TAT

FAX RESULTS TO:
K. HYLTON 716 774 8683
B. CAREY 716 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 15, 1996

RECEIVED
MAY 20 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA98587 & AA98588

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 15, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	05/08/96	07:00
Location Code:	GRNDTECH	Received by:	SW	05/09/96	10:40
Project Code:		Validated by:	LC	05/14/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 050896 M45-P37** Phoenix I.D.: **AA98587**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	180	10	ug/L	05/13/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/10/96	BA	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 15, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 15, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA98588 Location code: GRNDTECH
Location Description: RG&E W STATION QC98587
Sample collector: BC
Sample collection date: 05/08/96 Time: 07:00
Lab submittal date: 05/09/96 Time: 10:40
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	96%	95%	1%
Chlorobenzene	ND	98%	98%	0%
1,1-Dichloroethylene	ND	80%	79%	1%
Toluene	ND	97%	96%	1%
Trichloroethylene	ND	93%	94%	1%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RG&E WEST STATION
Report To: K. HYLTON B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: (716) 771 4498
Fax #: 716 771 4498

Client Sample - Information - Identification

Sampler's Signature: X [signature] Date: 5-8-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS	PL( ) HNO_3 ( ) GL( )	PL( ) + $NaOH$ ( ) GL( )	PL( ) AS ( ) GL( )	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
	RLE050896-M45-P37	SOLID	5/8	700	X								98587
													98588 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	Fed Ex		
	Fed Ex	[signature]	5-9-96	10:10

Comments: FAX RESULTS TO:
K HYLTON 716 724-8683
B CAREY 716 771-4498

4 DAY TAT

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 X 4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 15, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA98725 & AA98726

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 15, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	05/09/96	13:00
Location Code:	GRNDTECH	Received by:	SW	05/10/96	11:15
Project Code:		Validated by:	LC	05/14/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 Client ID: PROJ: RG&E W STATION M46-P38 Phoenix I.D.: AA98725

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	500	50	ug/L	05/13/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/13/96	B/D	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 15, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 15, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA98726 Location code: GRNDTECH
Location Description: PROJ: RG&E W STATION QC98725
Sample collector: BC
Sample collection date: 05/09/96 Time: 13:00
Lab submittal date: 05/10/96 Time: 11:15
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	96%	95%	1%
Chlorobenzene	ND	98%	98%	0%
1,1-Dichloroethylene	ND	80%	79%	1%
Toluene	ND	97%	96%	1%
Trichloroethylene	ND	93%	94%	1%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 60 EARHART #14
BUFFALO, NY 14221

Project: RG&E W. STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 5/9/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS PL( ) GL( ) HNO_3 (	PL( ) GL( ) + N_2OH (	PL( ) GL( ) AS( )	GL + H_2SO_4 (	Field Filtered + HNO_3 (	Bacteria Bottle	PHOENIX SAMPLE #
	RGEC50996 MW-P38	SOLID	5/9	1300	X		1					18725
												98726 GC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	5/10	11:15

Comments: 3 DAY T.A.T.

FAX RESULTS TO:
K. HYLTON 716-724-8683
B. CAREY 716-771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 9, 1996

RECEIVED
MAY 14 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA98173 To AA98175

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 9, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		05/02/96	11:00
Location Code:	GRNDTECH	Received by:	SW	05/03/96	10:30
Project Code:		Validated by:	LC	05/07/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E WEST STATION M43-P36 Phoenix I.D.: AA98173

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	190	10	ug/L	05/06/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/04/96	J/B	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 9, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 9, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		05/02/96	11:00
Location Code:	GRNDTECH	Received by:	SW	05/03/96	10:30
Project Code:		Validated by:	LC	05/07/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION M44-P34P35P36 Phoenix I.D.: AA98174

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			05/04/96	B/J	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	05/06/96	EK	E1311/SW6010
TCLP Barium	0.63	0.01	mg/L	05/06/96	EK	E1311/SW6010
TCLP Cadmium	0.008	0.005	mg/L	05/06/96	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	05/06/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	05/06/96	EK	E1311/SW6010
TCLP Selenium	BDL	0.02	mg/L	05/06/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	05/06/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			05/06/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	05/06/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			05/04/96	J/B	EPA 1311
TCLP Extraction Semi-Vol	Completed			05/06/96	JE	EPA 1311
******* TCLP Volatiles *******						
Benzene	86	1.0	ug/L	05/06/96	HC	SW 8020
Methyl ethyl ketone	9	1.0	ug/L	05/06/96	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	65	10.0	ug/L	05/06/96	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	160	10.0	ug/L	05/06/96	CAS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	05/06/96	CAS	SW 8270
Nitrobenzene	ND	10.0	ug/L	05/06/96	CAS	SW 8270
Pyridine	ND	10.0	ug/L	05/06/96	CAS	SW 8270

 Client ID: RG&E W STATION M44-P34P35P36 Phoenix I.D.: AA98174

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 9, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 7, 1996

RECEIVED
MAY 13 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA97651 & AA97652

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 6, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	B CAREY	04/29/96	08:00
Location Code:	GRNDTECH	Received by:	SW	04/30/96	11:55
Project Code:		Validated by:	LC	05/06/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG&E W STATION 042996-M42-P35** Phoenix I.D.: **AA97651**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	220	10	ug/L	05/02/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			05/01/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 6, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 6, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA97652 Location code: GRNDTECH
Location Description: RG&E W STATION QC97651
Sample collector: B CAREY
Sample collection date: 04/29/96 Time: 08:00
Lab submittal date: 04/30/96 Time: 11:55
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	96%	95%	1%
Chlorobenzene	ND	98%	98%	0%
1,1-Dichloroethylene	ND	80%	79%	1%
Toluene	ND	97%	96%	1%
Trichloroethylene	ND	93%	94%	1%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 60 EARHART #14
BUFFALO, NY 14221

Project: RGE WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 771-4498
Fax #: 716 771-4498

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 4/29/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS PL( ) GL( ) HNO_3 ( )	PL( ) GL( ) + NaOH ( )	PLG( ) GLG( ) AS ( ) 15	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle ( )	PHOENIX SAMPLE #
	RGE042996-MW2-P35	SOLID	4/29	800	X		1					9765 1 9765 2

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	4/30	11:55

Comments: 5 DAY TAT

FAX RESULTS TO
K. HYLTON 724-8683
B. CAREY - 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

RECEIVED
MAY 0 8 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 3, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA97649 & AA97650

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

May 3, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/29/96	16:00
Location Code:	GRNDTECH	Received by:	SW	04/30/96	11:50
Project Code:		Validated by:	LC	05/02/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION SOURCE MATERIAL** Phoenix I.D.: **AA97649**

Parameter	Result	MDL	Units	Date	by	Reference
Lead	67.3	0.10	mg/Kg	05/01/96	RS	EPA 200.7
Total Metals Digest	Completed			04/30/96	E/D	SW846 - 3050

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
May 3, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

May 3, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA97650 Location code: GRNDTECH
Location Description: RG&E W STATION QC97649
Sample collection date: 04/29/96 Time: 16:00
Lab submittal date: 04/30/96 Time: 11:50
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
AA Metals Analysis QC	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12

Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	100	94	0.0
Hg Mercury	<0.005	93	114	NC
Pb Lead	<0.005	105	103	0.7
Sb Antimony	<0.005	114	113	0.0
Se Selenium	<0.005	90	96	0.0
Tl Thallium	<0.005	87	71	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	102	0.0
Ni Nickel	<0.05	102	96	0.0
Na Sodium	<0.10	108	94	4.2

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH.
Address: 60 EARHART #14
BUFFALO NY, 14221

Project: RG+E WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: (716) 771-4498
Fax #: (716) 771-4498

Client Sample - Information - Identification

Sampler's Signature: x Brian M Carey Date: 4/29/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TOTAL LEAD	VOA VIALS	1 L PL ( ) HNO_3 ( ) GL ( )	1 L PL ( ) $NaOH$ ( ) GL ( )	1 L PL ( ) AS ( ) GL ( )	1 L GL + H_2SO_4 ( )	1 L Field Filtered + HNO_3 ( )	1 L Bacteria Bottle ( )	PHOENIX SAMPLE #
RGE01	2996-SOURCE MATERIAL	SOLID	4/29	1600	X			1					97649
													97650

Item #	Relinquished by:	Accepted by:	Date:	Time:
	Brian M Carey	D. White	4/30	11:50

Comments: 48 HR TAT

FAX RESULTS TO:
K. HYLTON (716) 724-8683
B. CAREY (716) 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

RECEIVED
MAY 0 8 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

May 2, 1996

Groundwater Technology
60 Earhart Suite #14
Buffalo, NY 14221

Attn Mr Brian Carey

Sample I.D.# AA97401 To AA97402

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 30, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/25/96	15:00
Location Code:	GRNDTECH	Received by:	SW	04/26/96	11:10
Project Code:		Validated by:	LC	05/01/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 042596-M41-P34** Phoenix I.D.: **AA97401**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	220	10	ug/L	04/29/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			04/29/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 30, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 30, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA97402 Location code: GRNDTECH
Location Description: RG&E W STATION QC97401
Sample collection date: 04/25/96 Time: 15:00
Lab submittal date: 04/26/96 Time: 11:10
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	93%	95%	2%
Chlorobenzene	ND	100%	102%	2%
1,1-Dichloroethylene	ND	88%	95%	8%
Toluene	ND	100%	102%	2%
Trichloroethylene	ND	85%	90%	5%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Technology, Inc
Address 60 Earhart #14
Buffalo, NY 14221

Project: R&E West Station
Report To: B. Carey, K. Hylton
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634-6851

Client Sample - Information - Identification

Sampler's Signature: x BMZ
Date: 4/25/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Semivol	VOA VIALS	PL( ) HNO_3 ( ) GL( )	PL( ) GL( ) + NaOH ( )	PL( ) GL( ) AS ( )	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle ( )	PHOENIX SAMPLE #
1	R&E012596-MW1-P34	Soil	4/25	1500	X			1					97401
													97402

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	BMZ	[illegible]	4/26	11:10

Comments: 5 DAY TAT
Please fax to K. Hylton (716) 724-8683
B. Carey (716) 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 X 5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

April 29, 1996

Groundwater Technology
60 Earhart Suite #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA96703 & AA96704

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 29, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/18/96	19:00
Location Code:	GRNDTECH	Received by:	SW	04/19/96	10:45
Project Code:		Validated by:	BP	04/29/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: PROJECT: RG&E 041896-M38-P32 Phoenix I.D.: AA96703

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	480	10.0	ug/L	04/24/96	RM	SW 8020
TCLP Extraction Volatiles.	Completed			04/22/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 29, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 29, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA96704 Location code: GRNDTECH
Location Description: PROJECT: RG&E QC96703
Sample collection date: 04/18/96 Time: 19:00
Lab submittal date: 04/19/96 Time: 10:45
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	93%	95%	2%
Chlorobenzene	ND	100%	102%	2%
1,1-Dichloroethylene	ND	88%	95%	8%
Toluene	ND	100%	102%	2%
Trichloroethylene	ND	85%	90%	5%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Tech
Address 60 Earhart #14
Buffalo NY 14221

Project: RG+E
Report To: B. Carey, K. Hylton
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634 1291
Fax #: (716) 634 6881

| Client Sample - Information - Identification | | | | | Analysis Requested | | | | |

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
MAY 0 2 1996

April 29, 1996

Groundwater Technology
60 Earhart Suite #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA96948 To AA96950

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 29, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/22/96	16:45
Location Code:	GRNDTECH	Received by:	SW	04/23/96	10:30
Project Code:		Validated by:	LC	04/27/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 Client ID: RG&E W STATION 042296-M39 P33 Phoenix I.D.: AA96948

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	320	5	ug/L	04/26/96	JW	SW 8020
TCLP Extraction Volatiles.	Completed			04/24/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 29, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 29, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/22/96	16:45
Location Code:	GRNDTECH	Received by:	SW	04/23/96	10:30
Project Code:		Validated by:	LC	04/27/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STN 042296 M40P31P32P33 Phoenix I.D.: **AA96949**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			04/24/96	J/E	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Barium	0.70	0.01	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Cadmium	0.016	0.005	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Lead	0.027	0.015	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Selenium	0.02	0.02	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	04/25/96	E/R	E1311/SW6010
TCLP Digestion Mercury	Completed			04/25/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	04/25/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			04/24/96	ES	EPA 1311
TCLP Extraction Semi-Vol	Completed			04/25/96	JE	EPA 1311
******* TCLP Volatiles *******		0				
Benzene	200	5.0	ug/L	04/26/96	JW	SW 8020
Methyl ethyl ketone	ND	5.0	ug/L	04/26/96	JW	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	100	100.0	ug/L	04/26/96	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	440	100.0	ug/L	04/26/96	CAS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	04/26/96	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	04/26/96	CAS	SW 8270
Pyridine	ND	100.0	ug/L	04/26/96	CAS	SW 8270

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 29, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 29, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart # 14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA96950 Location code: GRNDTECH
Location Description: RG&E W STATION QC96948-49
Sample collection date: 04/22/96 Time: 16:45
Lab submittal date: 04/23/96 Time: 10:30
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	96	108	0.0
Hg Mercury	<0.005	108	92	0.0
Pb Lead	<0.005	109	107	2.3
Sb Antimony	<0.005	111	96	0.0
Se Selenium	<0.005	91	79	0.0
Tl Thallium	<0.005	101	71	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	102	0.0
Ni Nickel	<0.05	102	96	0.0
Na Sodium	<0.10	108	94	4.2

Data for ICP Metals Analysis QC:

QC Source: ERA 3406 QCI-710(1:10) ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)

Data for ICP Metals Analysis QC (continued):

Ag Silver	<0.01	94	105	0.0
Al Aluminum				
As Arsenic	<0.01	89	107	0.0
B Boron				
Ba Barium	<0.01	94	91	0.6
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	99	103	0.0
Co Cobalt				
Cr Chromium	<0.01	106	87	0.0
Cu Copper	<0.01	98	94	0.0
Fe Iron	<0.01	104	84	0.0
K Potassium				
Mg Magnesium				
Mn Manganese	<0.01	116	119	0.0
Mo Molybdenum				
Na Sodium	<0.10	95	101	0.0
Ni Nickel	<0.01	110	82	0.0
P Phosphorus				
Pb Lead	<0.01	88	101	0.0
Se Selenium	<0.05	98	99	NC
Si Silicon				
Sn Tin	<0.01	114	93	NC
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	112	122	0.0
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	93%	95%	2%
Chlorobenzene	ND	100%	102%	2%
1,1-Dichloroethylene	ND	88%	95%	8%
Toluene	ND	100%	102%	2%
Trichloroethylene	ND	85%	90%	5%

Data for Semivolatile QC Data (MS):

	Matrix	Matrix Spike	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	Spike (%Rec)	Dup (%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Tech
Address: 60 Earhart # 14
Buffalo, NY 14221

Project: RGE West Station
Report To: K. Hylton, B. Carey
Invoice To: B. Carey

Project P.O. _____
Phone #: 716 634 1291
Fax #: 716 634 6881

Client Sample - Information - Identification

Sampler's Signature: x Brian Mazza Date: 4/22/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene	TCLP Organics (specify)	TCLP Metals	VOA VIALS	PL( ) HNO3 (GL( )	PL( ) * NaOH (GL( )	PL( ) AS (GL( )	GL * H2SO4	Field * Filtered	HNO3 (Bacteria Bottle	PHOENIX SAMPLE #
1	RGE042296-MW1S	Soil	4/22	4:45	X					1					96448
2	RGE042296-MW2S	Soil	4/22	4:45		X	X			2					96449 96450 DC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	Brian Mazza			
2	Brian Mazza	S Tuttle	4/23	10:30

Comments: [redacted]

Kevin Hylton 716-724-8683
Brian Carey 716-771-4498

3 day TAT

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 [redacted]2 X 3 ___4 [redacted]5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

April 24, 1996

RECEIVED
APR 29 1996

Groundwater Technology
60 Earhart Suite 14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA96356 & AA96357

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 24, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/15/96	
Location Code:	GRNDTECH	Received by:	SW	04/16/96	10:40
Project Code:		Validated by:	BP	04/23/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION 041596-M36-P31 Phoenix I.D.: AA96356

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	100	1.0	ug/L	04/22/96	RM	SW 8020
TCLP Extraction Volatiles.	Completed			04/17/96	E/M	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 24, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 24, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA96357 Location code: GRNDTECH
Location Description: RG&E W STATION QC96356
Sample collection date: 04/15/96
Lab submittal date: 04/16/96 Time: 10:40
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	73%	72%	2%
Chlorobenzene	ND	106%	108%	2%
1,1-Dichloroethylene	ND	95%	95%	0%
Toluene	ND	72%	73%	2%
Trichloroethylene	ND	80%	80%	0%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Technology
Address: 60 Earhart #14
Buffalo, NY 14221

Project: RG&E West Station
Report To: K. Hylton, B. Carey
Invoice To: ~~B~~ B. Carey

Project P.O. _____
Phone #: (716) 634 1291
Fax #: (716) 634 6851

Client Sample - Information - Identification

Sampler's Signature: x [signature] Date: 4/15/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene	Reactivity	VOA VIALS	PL ( ) HNO3 ( ) GL ( )	PL ( ) NaOH ( ) GL ( )	PL ( ) AS ( ) GL ( ) JS	GL + H_2SO_4	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE041596-MW34	So.1	4/15/96		X									96356
														96357 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	[signature]	[signature]	4-16	10:40

Comments: Normal (5d) TAT
fax results to: Kevin Hylton (716) 724-8683
Brian Carey (716) 724 8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 X 5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

April 24, 1996

Groundwater Technology
60 Earhart Suite 14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA96459 & AA96460

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 24, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/16/96	17:00
Location Code:	GRNDTECH	Received by:	SW	04/17/96	11:10
Project Code:		Validated by:	BP	04/22/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 041696-M37-P30** Phoenix I.D.: **AA96459**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	150	1.0	ug/L	04/19/96	RM	SW 8020
TCLP Extraction Volatiles.	Completed			04/18/96	E/M	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 24, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 24, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA96460 Location code: GRNDTECH
Location Description: RG&E W STATION QC96459
Sample collection date: 04/16/96 Time: 17:00
Lab submittal date: 04/17/96 Time: 11:10
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	73%	72%	2%
Chlorobenzene	ND	106%	108%	2%
1,1-Dichloroethylene	ND	95%	95%	0%
Toluene	ND	72%	73%	2%
Trichloroethylene	ND	80%	80%	0%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH
Address: 60 Earhart #14
Buffalo, NY

Project: BLITE
Report To: K Hylton, B Carey
Invoice To: B Carey

Project P.O. _____
Phone #: (716) 634 1291
Fax #: (716) 634 6881

Client Sample - Information - Identification

Sampler's Signature: x BMZ Date: 4/16/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	PHOENIX SAMPLE #
1	RGE-041695-MW3R	Soil	4/16	500	96459
					96460

TCLP Benzene

VOA VIALS
PL ( ) GL ( ) HNO_3 ( )
PL ( ) GL ( ) NaOH ( )
PL ( ) GL ( ) AS ( )
GL + H_2SO_4 ( )
Field * HNO_3 ( )
Bacteria Bottle
) ML
) ML
) ML
) ML
) ML

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	BMZ	[illegible]	4-17	11:10

Comments: 48 Hr TAT

Please fax results to: K. Hylton 716-[illegible]
B. Carey 716-771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

FedEx. USA Airbill

7016854703

FedEx Retrieval Copy

1 From

Date 4-16-96 Sender's FedEx Account Number 1380-1735-4

Sender's Name BRIAN TRAPP Phone 716 634-1291

Company GROUNDWATER TECHNOLOGY

Address 60 EARHART, #14

City BUFFALO State NY Zip 14221

2 Your Internal Billing Reference Information 01110-0268-07

3 To

Recipient's Name LAB Phone 203 645-1102

Company PHENIX ENV. LABS

Address 587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT Zip 06040

For "HOLD" Service check here
1 [ ] Weekday 3 [ ] Saturday

For Saturday Delivery check here
1 [ ]

4 Service
1 [X] FedEx Priority Overnight 2 [ ] FedEx Standard Overnight 3 [ ] FedEx 2Day
4 [ ] FedEx First Overnight
7 [ ] FedEx Overnight Freight 8 [ ] FedEx 2Day Freight

5 Packaging
1 [ ] FedEx Letter 2 [ ] FedEx Pak 3 [ ] FedEx Box 4 [ ] FedEx Tube 5 [X] Other Packaging

6 Special Handling
Does this shipment contain dangerous goods? [ ] No [ ] Yes [ ] Yes
1 [ ] Dry Ice CA [ ] Cargo Aircraft Only

7 Payment
Bill to: 1 [X] Sender 2 [ ] Recipient 3 [ ] Third Party 4 [ ] Credit Card 5 [ ] Cash/Check
[ ] Obtain Recipient FedEx Account No.

Total Packages	Total Weight	Total Declared Value	Total Charges
1	6	0.00	$

Credit Card Auth

8 Recipient Signature

7016854703

194

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

April 18, 1996

Groundwater Technology
60 Earhart Suite 14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA96232 & AA96233

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

RECEIVED
APR 23 1996

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 18, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/13/96	08:30
Location Code:	GRNDTECH	Received by:	SW	04/15/96	10:45
Project Code:		Validated by:	BP	04/17/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: **RG&E W STATION 041396-M35-P28** Phoenix I.D.: **AA96232**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	230	10	ug/L	04/17/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			04/16/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 18, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 18, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA96233 Location code: GRNDTECH
Location Description: RG&E W STATION QC96232
Sample collection date: 04/13/96 Time: 08:30
Lab submittal date: 04/15/96 Time: 10:45
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	96%	96%	0%
Chlorobenzene	ND	93%	95%	2%
1,1-Dichloroethylene	ND	89%	81%	9%
Toluene	ND	102%	104%	2%
Trichloroethylene	ND	82%	82%	0%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RGTE WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 634-6881

Client Sample - Information - Identification

Sampler's Signature Date

X

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS PL( ) GL( ) HNO_3 ( )	PL( ) GL( ) $NaOH$ ( )	PL( ) GL( ) AS ( )	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
RGE041396-M35-P28		SOLID	4-13-96	8:30	X		1					96232
												96233QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
			4-15	10:45

Comments: 48 HR TAT
PLEASE FAX RESULTS TO
K. HYLTON 724-8683
B. CAREY 771-4498

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
APR 23 1996

April 16, 1996

Groundwater Technology
60 Earhart Suite 14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA95850 & AA95851

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/08/96	17:00
Location Code:	GRNDTECH	Received by:	BP	04/10/96	11:00
Project Code:		Validated by:	BP	04/12/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG+E W. STAT.RGE040896-M30-P27** Phoenix I.D.: **AA95850**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			04/11/96	E/J	EPA 1311
TCLP Benzene	210	10	ug/L	04/11/96	HC	SW 8020

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 16, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 16, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA95851 Location code: GRNDTECH
Location Description: RG+E W. STAT. QC95850
Sample collection date: 04/08/96 Time: 17:00
Lab submittal date: 04/10/96 Time: 11:00
MATRIX: SOLID
Received by: BP Validated by: BP

Parameter: Volatile (GC) Analysis QC
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 04/09/96 Date finished: 04/09/96
Time started: Analyst: HC

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	96%	96%	0%
Chlorobenzene	ND	93%	95%	2%
1,1-Dichloroethylene	ND	89%	81%	9%
Toluene	ND	102%	104%	2%
Trichloroethylene	ND	82%	82%	0%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Technology
Address: 60 Earhart #14
Buffalo, NY 14221

Project: RG+E West Station
Report To: K. Hylton, B. Carey
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634 6881

Client Sample - Information - Identification

Sampler's Signature: x [signature] Date: 4/8/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	PHOENIX SAMPLE #
1	RGE04896-MW-02	Soil	4/8/96	500	95850
					95851 SC

Analysis columns: TCLP Benzene; VOA VIALS PL( ) HNO3 ( ) GL( ); PL( ) + NaOH ( ) GL( ); PL( ) AS( ) GL + H2SO4 ( ); Field Filtered + HNO3 ( ); Bacteria Bottle;) ML;) ML;) ML;) ML;) ML

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	[signature]	[signature]	4/8/96	11:00

Comments: 48 HR TAT

Fax results to:
K. Hylton: 716-724-8683
B. Carey: 716-724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

April 16, 1996

RECEIVED
APR 23 1996

Groundwater Technology
60 Earhart Suite 14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA96068 & AA96069

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart Route 14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	04/11/96	18:00
Location Code:	GRNDTECH	Received by:	SW	04/12/96	11:15
Project Code:		Validated by:	BP	04/16/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION M34-P28 P29 P30 Phoenix I.D.: **AA96068**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			04/15/96	E/R	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	04/15/96	EK	E1311/SW6010
TCLP Barium	1.12	0.01	mg/L	04/15/96	EK	E1311/SW6010
TCLP Cadmium	0.019	0.005	mg/L	04/15/96	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	04/15/96	EK	E1311/SW6010
TCLP Lead	0.024	0.015	mg/L	04/15/96	EK	E1311/SW6010
TCLP Selenium	BDL	0.02	mg/L	04/15/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	04/15/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			04/15/96	RP	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	04/15/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			04/15/96	E/J	EPA 1311
TCLP Extraction Semi-Vol	Completed			04/15/96	JE	EPA 1311
******* TCLP Volatiles *******		0				
Benzene	120	10.0	ug/L	04/15/96	HC	SW 8020
Methyl ethyl ketone	ND	10.0	ug/L	04/15/96	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	230	10.0	ug/L	04/15/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	63	10.0	ug/L	04/15/96	SS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	04/15/96	SS	SW 8270
Nitrobenzene	ND	10.0	ug/L	04/15/96	SS	SW 8270
Pyridine	ND	10.0	ug/L	04/15/96	SS	SW 8270

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 16, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 16, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart Route 14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA96069 Location code: GRNDTECH
Location Description: RG&E W STATION QC96068
Sample collector: BC
Sample collection date: 04/11/96 Time: 18:00
Lab submittal date: 04/12/96 Time: 11:15
MATRIX: SOLID
Received by: SW Validated by: BP

Parameter: Volatile (GC) Analysis QC
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 04/09/96 Date finished: 04/09/96
Time started: Analyst: HC

Parameter: Semivolatile QC Data (MS)
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 04/15/96 Date finished: 04/15/96
Time started: Analyst: SS

Parameter: AA Metals Analysis QC
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 04/16/96 Date finished: 04/16/96
Time started: 10:07 Analyst: RS

Parameter: ICP Metals Analysis QC
Method reference: Unit:
Result: see below
Date started: 04/15/96 Date finished: 04/15/96
Time started: 16:40 Analyst: EK

Data for Volatile (GC) Analysis QC:

		QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike	40	ppb	Rec	Rec	

Data for Volatile (GC) Analysis QC (continued):

Benzene	ND	96%	96%	0%
Chlorobenzene	ND	93%	95%	2%
1,1-Dichloroethylene	ND	89%	81%	9%
Toluene	ND	102%	104%	2%
Trichloroethylene	ND	82%	82%	0%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in t applicable method blanks with the following exceptions:

NONE

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	90	88	0.0
Hg Mercury	<0.005	96	107	0.0
Pb Lead	<0.005	98	95	0.3
Sb Antimony	<0.005	107	83	0.0
Se Selenium	<0.005	89	96	0.0
Tl Thallium	<0.005	91	96	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	102	0.0
Ni Nickel	<0.05	102	96	0.0

Data for ICP Metals Analysis QC:

QC Source: QCI 700 QCI-710(1:10) ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	98	89	0.0
Al Aluminum				
As Arsenic	<0.01	99	99	0.0
B Boron				
Ba Barium	<0.01	94	81	0.6
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	102	91	0.0
Co Cobalt				
Cr Chromium	<0.01	95	93	0.0
Cu Copper	<0.01	106	104	0.0
Fe Iron	<0.01	110	106	1.2
K Potassium				
Mg Magnesium				
Mn Manganese	<0.01	112	107	1.6
Mo Molybdenum				
Na Sodium	<0.10	94	94	1.3
Ni Nickel	<0.01	106	102	0.0
P Phosphorus	<0.10	108	90	2.0
Pb Lead	<0.01	106	92	0.0
Se Selenium	<0.05	97	99	NC
Si Silicon				
Sn Tin	<0.01	106	107	0.0
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	105	101	0.0
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO NY 14221

Project: RG&E WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 631-0881

Client Sample - Information - Identification

Sampler's Signature: X [signature] Date: 4-11-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS	TCLP ORGANICS (SPECIAL LIST - RCE)	VOA VIALS	PL( ) HNO_3 (	GL( ) HNO_3 (	PL( ) $NaOH$ (	GL( ) AS (	GL( ) H_2SO_4 (	Field Filtered HNO_3 (	Bacteria Bottle	PHOENIX SAMPLE #
	RCE041196-M34-P28 P29 P30	STND	4/11	1800	X	X									96068
															96064

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	Fedex		
	Fedex	[signature]	4-12	11:15

Comments: 48 HR TAT

PLS FAX RESULTS TO:

K. HYLTON 724-8683
B. CAREY 771-4498 - CALL FIRST

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

April 11, 1996

Groundwater Technology
60 Earhart Suite 14
Buffalo, NY 14221

Attn Mr, Brian Carey

Sample I.D.# AA94682 & AA94683

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 11, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	B CAREY	03/27/96	17:00
Location Code:	GRNDTECH	Received by:	SW	03/28/96	10:00
Project Code:		Validated by:	LC	04/01/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 2 **Client ID: PROJ:RG&E W STATION 032796-M25** Phoenix I.D.: **AA94682**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	340	5.0	ug/L	04/01/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			03/29/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 11, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 11, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA94683 Location code: GRNDTECH
Location Description: PROJ:RG&E W STATION QC94682
Sample collector: B CAREY
Sample collection date: 03/27/96 Time: 17:00
Lab submittal date: 03/28/96 Time: 10:00
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	92%	94%	2%
Chlorobenzene	ND	93%	95%	2%
1,1-Dichloroethylene	ND	95%	95%	0%
Toluene	ND	90%	90%	0%
Trichloroethylene	ND	91%	94%	3%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 60 EARHART #14
BUFFALO NY 14221

Project: RGE WEST STATION
Report To: K. MYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634-6881

Client Sample - Information - Identification

Sampler's Signature: x [signature] Date: 3-27-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS	PL( ) GL( ) HNO3 (	PL( ) GL( ) NaOH (	PL( ) GL( ) AS (	GL + H2SO4 (	Field Filtered + HNO3 (	Bacteria Bottle	PHOENIX SAMPLE #
	RGE032796-MW25	SOLID	3/27	1700	X				1				94682
													94683DUP

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	Shannon Tuttle	3/28	10:00

Comments: 48 HR TAT

PLEASE FAX RESULTS TO:
K. MYLTON, B. CAREY

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
APR 1 2 1996

April 8, 1996

Groundwater Technology
60 Earhart Drive Suite 14
Buffalo, NY 14221

Attn Mr, Brian Carey

Sample I.D.# AA95052 & AA95053

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

April 5, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart Drive
Suite #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/01/96	13:00
Location Code:	GRNDTECH	Received by:	SW	04/02/96	13:55
Project Code:		Validated by:	BP	04/05/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION M29P24,25,26,27 Phoenix I.D.: AA95052

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			04/03/96	ES	EPA 1311
TCLP Extraction Metals	Completed			04/03/96	ES	EPA 1311
TCLP Arsenic	0.07	0.01	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Barium	1.71	0.01	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Cadmium	0.027	0.005	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Chromium	0.02	0.01	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Selenium	0.05	0.02	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Silver	0.01	0.01	mg/L	04/04/96	E/R	E1311/SW6010
TCLP Digestion Mercury	Completed			04/04/96	E/B	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	04/04/96	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			04/04/96	R/M	EPA 1311
******* TCLP Volatiles *******						
Benzene	280	10	ug/L	04/03/96	HC	SW 8020
Methyl ethyl ketone	67	10	ug/L	04/03/96	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	29	10.0	ug/L	04/04/96	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	270	10.0	ug/L	04/04/96	CAS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	04/04/96	CAS	SW 8270
Nitrobenzene	ND	10.0	ug/L	04/04/96	CAS	SW 8270
Pyridine	ND	10.0	ug/L	04/04/96	CAS	SW 8270

 Client ID: RG&E W STATION M29P24,25,26,27 Phoenix I.D.: AA95052

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
April 5, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

April 5, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart Drive
Suite #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA95053 Location code: GRNDTECH
Location Description: RG&E W STATION QC95052
Sample collection date: 04/01/96 Time: 13:00
Lab submittal date: 04/02/96 Time: 13:55
MATRIX: SOLID
Received by: SW Validated by: BP

Parameter: Volatile (GC) Analysis QC
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 04/01/96 Date finished: 04/01/96
Time started: Analyst: HC

Parameter: Semivolatile QC Data (MS)
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 04/04/96 Date finished: 04/04/96
Time started: Analyst: CS

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	92%	94%	2%
Chlorobenzene	ND	93%	95%	2%
1,1-Dichloroethylene	ND	95%	95%	0%
Toluene	ND	90%	90%	0%
Trichloroethylene	ND	91%	94%	3%

Data for Semivolatile QC Data (MS):

	Matrix Spike	Matrix Spike Dup	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	(%Rec)	(%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in t applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Technology
Address: 60 Earhart #14
Buffalo, NY 14221

Project: RG&E West Station
Report To: K. Hylton, B. Carey
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634 1291
Fax #: (716) 634 6881

Client Sample - Information - Identification

Sampler's Signature: X B. M Zak Date: 4/1/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Organics (GC/MS)	TCLP Metals	VOA VIALS	PL( ) GL( ) HNO_3 ( )	PL( ) GL( ) + NaOH ( )	PL( ) GL( ) AS ( )	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE01096-MW1-P24, -> P25 P26 P27	Soil	4/1/96	1300	X	X				1				95052 95053

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	B. M Zak	[signature]	4/2	1:55

Comments:
Fax results to:
Brian Carey (716) 724-~~8683~~ 8734
Kevin Hylton (716) 724-8683.

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

March 19, 1996

RECEIVED
MAR 2 6 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA93446 To AA93448

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

March 19, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BT	03/14/96	15:00
Location Code:	GRNDTECH	Received by:	SW	03/15/96	10:45
Project Code:		Validated by:	LC	03/19/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION 031496-M23-P23 Phoenix I.D.: AA93446

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			03/18/96	PL	EPA 1311
TCLP Arsenic	0.05	0.01	mg/L	03/18/96	EK	E1311/SW6010
TCLP Barium	1.58	0.01	mg/L	03/18/96	EK	E1311/SW6010
TCLP Cadmium	0.044	0.005	mg/L	03/18/96	EK	E1311/SW6010
TCLP Chromium	0.02	0.01	mg/L	03/18/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	03/18/96	EK	E1311/SW6010
TCLP Selenium	BDL	0.02	mg/L	03/18/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	03/18/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			03/18/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	03/18/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			03/18/96	E/R	EPA 1311
TCLP Extraction Semi-Vol	Completed			03/18/96	JE	EPA 1311
******* TCLP Volatiles *******						
Benzene	170	1.0	ug/L	03/18/96	RM	SW 8020
Methyl ethyl ketone	ND	1.0	ug/L	03/18/96	RM	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	72	10.0	ug/L	03/19/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	370	10.0	ug/L	03/19/96	SS	SW 8270
2-4-Dinitrotoluene	ND	10.0	ug/L	03/19/96	SS	SW 8270
Nitrobenzene	ND	10.0	ug/L	03/19/96	SS	SW 8270
Pyridine	ND	10.0	ug/L	03/19/96	SS	SW 8270

 Client ID: RG&E W STATION 031496-M23-P23 Phoenix I.D.: AA93446

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber, Laboratory Director
March 19, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

March 19, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BT	03/14/96	15:15
Location Code:	GRNDTECH	Received by:	SW	03/15/96	10:45
Project Code:		Validated by:	LC	03/19/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 2 **Client ID: RG&E W STATION 031496-M24** Phoenix I.D.: **AA93447**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	470	1.0	ug/L	03/18/96	RM	SW 8020
TCLP Extraction Volatiles.	Completed			03/18/96	E/R	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
March 19, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

March 19, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA93448 Location code: GRNDTECH
Location Description: RG&E W STATION QC93446-47
Sample collector: BT
Sample collection date: 03/14/96 Time: 15:15
Lab submittal date: 03/15/96 Time: 10:45
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	96	90	0.0
Hg Mercury	<0.005	106	82	0.0
Pb Lead	<0.005	92	106	0.0
Sb Antimony	<0.005	96	84	0.0
Se Selenium	<0.005	91	89	0.0
Tl Thallium	<0.005	91	74	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	102	0.0
Ni Nickel	<0.05	102	96	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)

Data for ICP Metals Analysis QC (continued):

Ag Silver	<0.01	101	81	0.0
Al Aluminum	<0.01	100	100	2.0
As Arsenic	<0.01	95	103	NC
B Boron	<0.10	107	112	2.1
Ba Barium	<0.01	99	100	0.0
Be Beryllium	<0.01	101	103	0.0
Ca Calcium	<0.10	100	105	1.3
Cd Cadmium	<0.01	105	104	0.0
Co Cobalt				
Cr Chromium	<0.01	102	102	0.0
Cu Copper	<0.01	96	103	0.0
Fe Iron	<0.01	100	118	1.6
K Potassium	<0.10	100	96	2.8
Mg Magnesium	<0.01	98	111	0.9
Mn Manganese	<0.01	99	110	1.3
Mo Molybdenum				
Na Sodium	<0.10	104	108	1.8
Ni Nickel	<0.01	105	102	0.0
P Phosphorus				
Pb Lead	<0.01	104	102	0.0
Se Selenium	<0.05	87	100	NC
Si Silicon				
Sn Tin				
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	105	102	0.0
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	97%	95%	2%
Chlorobenzene	ND	99%	95%	4%
1,1-Dichloroethylene	ND	98%	97%	1%
Toluene	ND	117%	114%	3%
Trichloroethylene	ND	84%	83%	1%

Data for Semivolatile QC Data (MS):

	Matrix	Matrix Spike	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	Spike (%Rec)	Dup (%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH
Address: 60 Earhart #14
Buffalo, NY 14221

Project: RG+E West Station
Report To: K. Hylton, B. Carey
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634-6881

Client Sample - Information - Identification

Sampler's Signature: x Brian M Trapp Date: 3/14/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Metals	TCLP Organics (Semi's)	TCLP Benzene	VOA VIALS	PL( ) HNO_3 (GL( )	PL( ) $+ NaOH$ (GL( )	PL( ) AS(GL( )	GL + H_2SO_4 (	Field Filtered + HNO_3 (	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE031496-MW3-PB	Soil	3/14/96	1500	X	X		2							9346
2	RGE031496-MW4	Soil	3/14/96	1515			X	2							9347
															9348 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1,2	Brian Trapp	FedEx		
	FedEx	Q.D.Rec'd	3/15	10:45

Comments: 48 Hr TAT

Please fax results to:
K. Hylton (716) 724-8683
B. Carey (716) 724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

March 14, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA93040 & AA93041

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

March 14, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		03/11/96	16:30
Location Code:	GRNDTECH	Received by:	SW	03/12/96	12:00
Project Code:		Validated by:	LC	03/14/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: PROJ:RG&E W STATION 031196-M22** Phoenix I.D.: **AA93040**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	610	5	ug/L	03/13/96	RM	SW 8020
TCLP Extraction Volatiles.	Completed			03/13/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
March 14, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

March 14, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA93041 Location code: GRNDTECH
Location Description: PROJ:RG&E W STATION QC93040
Sample collection date: 03/11/96 Time: 16:30
Lab submittal date: 03/12/96 Time: 12:00
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	97%	95%	2%
Chlorobenzene	ND	99%	95%	4%
1,1-Dichloroethylene	ND	98%	97%	1%
Toluene	ND	117%	114%	3%
Trichloroethylene	ND	84%	83%	1%

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Tech
Address 60 Earhart #14
Buffalo NY 14221

Project: RG+E West Station
Report To: K. Hylton, B. Carey
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634-6881

| Client Sample - Information - Identification | | | | | Analysis Requested | | | | |

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

March 14, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA92862 & AA92863

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

March 14, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		03/07/96	14:30
Location Code:	GRNDTECH	Received by:	SW	03/08/96	11:30
Project Code:		Validated by:	LC	03/12/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: W.STATION RG&E 030796-M21-P22 Phoenix I.D.: AA92862

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			03/11/96	ES	EPA 1311
TCLP Arsenic	0.10	0.01	mg/L	03/12/96	RP	E1311/SW6010
TCLP Barium	0.93	0.01	mg/L	03/12/96	RP	E1311/SW6010
TCLP Cadmium	0.035	0.005	mg/L	03/12/96	RP	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	03/12/96	RP	E1311/SW6010
TCLP Lead	0.025	0.015	mg/L	03/12/96	RS	E1311/SW6010
TCLP Selenium	0.03	0.02	mg/L	03/12/96	RP	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	03/12/96	RP	E1311/SW6010
TCLP Digestion Mercury	Completed			03/11/96	ES	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	03/12/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			03/11/96	ES	EPA 1311
TCLP Extraction Semi-Vol	Completed			03/11/96	PL	EPA 1311
******* TCLP Volatiles	*******	0				
Benzene	320	10.0	ug/L	03/12/96	RM	SW 8020
Methyl ethyl ketone	ND	10.0	ug/L	03/12/96	RM	SW 8020
******* TCLP Semivolatiles	*******	0				
2-Methylphenol (o-Cresol)	160	100.0	ug/L	03/11/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	1300	100.0	ug/L	03/11/96	SS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	03/11/96	SS	SW 8270
Nitrobenzene	ND	100.0	ug/L	03/11/96	SS	SW 8270
Pyridine	ND	100.0	ug/L	03/11/96	SS	SW 8270

Client ID: W.STATION RG&E 030796-M21-P22

Phoenix I.D.: AA92862

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
March 14, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

March 14, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA92863 Location code: GRNDTECH
Location Description: W.STATION RG&E QC92862
Sample collection date: 03/07/96 Time: 14:30
Lab submittal date: 03/08/96 Time: 11:30
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	97%	95%	2%
Chlorobenzene	ND	99%	95%	4%
1,1-Dichloroethylene	ND	98%	97%	1%
Toluene	ND	117%	114%	3%
Trichloroethylene	ND	84%	83%	1%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----

Data for Semivolatile QC Data (MS) (continued):

2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	96	111	5.9
Hg Mercury	<0.005	112	87	0.0
Pb Lead	<0.005	88	113	2.0
Sb Antimony	<0.005	102	97	0.0
Se Selenium	<0.005	93	109	0.0
Tl Thallium	<0.005	95	93	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	107	102	0.0
Ni Nickel	<0.05	102	96	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	92	81	0.0
Al Aluminum				
As Arsenic	<0.01	98	101	NC
B Boron				
Ba Barium	<0.01	109	97	0.0
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	103	96	0.0
Co Cobalt				
Cr Chromium	<0.01	100	99	0.0
Cu Copper				
Fe Iron				

Data for ICP Metals Analysis QC (continued):

K	Potassium				
Mg	Magnesium				
Mn	Manganese				
Mo	Molybdenum				
Na	Sodium				
Ni	Nickel				
P	Phosphorus				
Se	Selenium	<0.01	95	96	NC
Si	Silicon				
Sn	Tin				
Sr	Strontium				
V	Vanadium				
Ti	Titanium				
Zn	Zinc				
Zr	Zirconium				
Bi	Bismuth				
Sb	Antimony				
Tl	Thallium				
Pb	Lead				

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RG+E WEST STATION
Report To: K. Hylton, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: (716)634-1291
Fax #: (716)634-6881

Client Sample - Information - Identification					Analysis Requested																		
Sampler's Signature: X			Date:		TCLP Metals	TCLP Organics Special List - AGE						VOA Vials	PL( ) HNO_3 (	PL( ) + N_2OH (	PL( ) AS (	GL + H_2SO_4	Field Filtered + HNO_3 (	Bacteria Bottle	) ML	) ML	) ML	) ML	) ML	PHOENIX SAMPLE #
Item #	Customers Sample Ident	Sample Matrix	Date	Time									GL ( )	GL ( )	GL ( )								
1	RGE030796-MW-P2	Soil	3/7/96	1430	X	X								1									92862
																							92863 C

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	Brian Trapp	[illegible]	3-8	11:30

Comments: 48 HR TAT
please fax results to:
K. Hylton (716) 724-8683
B. Trapp (716) 724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
MAR 0 6 1996

March 5, 1996

Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Attn Mr. Brian Carey

Sample I.D.# AA92217 & AA92218

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

March 5, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		02/29/96	15:00
Location Code:	GRNDTECH	Received by:	SW	03/01/96	12:00
Project Code:		Validated by:	LC	03/04/96	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: W STATN RG&E 022996-M19-P20P21 Phoenix I.D.: AA92217

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			03/04/96	E/R	EPA 1311
TCLP Arsenic	0.21	0.01	mg/L	03/04/96	EK	E1311/SW6010
TCLP Barium	1.11	0.01	mg/L	03/04/96	EK	E1311/SW6010
TCLP Cadmium	0.028	0.005	mg/L	03/04/96	EK	E1311/SW6010
TCLP Chromium	0.01	0.01	mg/L	03/04/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	03/04/96	EK	E1311/SW6010
TCLP Selenium	0.04	0.02	mg/L	03/04/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	03/04/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			03/04/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	03/04/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			03/04/96	E/J	EPA 1311
TCLP Extraction Semi-Vol	Completed			03/04/96	RP	EPA 1311
******* TCLP Volatiles *******						
Benzene	300	1.0	ug/L	03/04/96	HC	SW 8020
Methyl ethyl ketone	BDL	1.0	ug/L	03/04/96	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	660	100.0	ug/L	03/04/96	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	2400	100.0	ug/L	03/04/96	CAS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	03/04/96	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	03/04/96	CAS	SW 8270
Pyridine	ND	100.0	ug/L	03/04/96	CAS	SW 8270

 Client ID: W STATN RG&E 022996-M19-P20P21 Phoenix I.D.: AA92217

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
March 5, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

March 5, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA92218 Location code: GRNDTECH
Location Description: WEST STATION RG&E QC92217
Sample collection date: 02/29/96 Time: 15:00
Lab submittal date: 03/01/96 Time: 12:00
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
ICP Metals Analysis QC	see below	---	---
AA Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	97	86	0.0
Al Aluminum	<0.10	101	94	0.0
As Arsenic	<0.10	83	104	0.0
B Boron				
Ba Barium	<0.01	98	94	1.3
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	113	108	0.0
Co Cobalt				
Cr Chromium	<0.01	109	108	0.0
Cu Copper	<0.01	107	103	0.0
Fe Iron				
K Potassium				
Mg Magnesium	<0.10	112	93	0.0
Mn Manganese				
Mo Molybdenum				
Na Sodium	<0.10	92	101	0.6
Ni Nickel	<0.01	109	108	0.0
P Phosphorus	<0.10	109	100	0.0

Data for ICP Metals Analysis QC (continued):

Pb Lead	<0.10	109	106	0.0
Se Selenium	<0.10	83	100	NC
Si Silicon				
Sn Tin	<0.10	106	95	0.0
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	108	107	0.0
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for AA Metals Analysis QC:

QC Source: ERA 9968 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	98	102	0.0
Hg Mercury	<0.005	108	89	0.0
Pb Lead	<0.005	84	106	0.0
Sb Antimony	<0.005	102	87	0.0
Se Selenium	<0.005	94	95	0.0
Tl Thallium	<0.005	98	98	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	98	94	2.6

Data for Volatile (GC) Analysis QC:

Sample Spike 40 ppb	QC BLANK	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	105%	117%	11%
Chlorobenzene	ND	98%	107%	9%
1,1-Dichloroethylene	ND	98%	88%	11%
Toluene	ND	103%	110%	7%
Trichloroethylene	ND	76%	75%	1%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)

Data for Semivolatile QC Data (MS) (continued):

Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: Groundwater Tech
Address: 60 Earhart #14
Buffalo, NY 14221

Project: RG&E West Station
Report To: K. Hylton, B. Carey
Invoice To: B. Carey

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634-6881

Client Sample - Information - Identification

Sampler's Signature: x Brian Zyp Date: 2/29/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Metals	TCLP Organics + Special List-RG&E	VOA VIALS	1 L ML	1 L ML	1 L ML	1 L ML	1 L ML	PHOENIX SAMPLE #
1	RGE022996-MW[illegible]	Soil	2/29	1500	X	X		1					92217
													92218 NC

VOA VIALS: PL( ) HNO3 ( ) GL( ) PL( ) GL( ) + NaOH ( ) PL( ) GL( ) AS ( ) GL + H2SO4 ( ) Field Filtered + HNO3 ( ) Bacteria Bottle

Item #	Relinquished by:	Accepted by:	Date:	Time:
1	Brian Zyp	FED EX		
	FedEx	Q. Dilmo	3-1	12:00

Comments: 48 Hr TAT

Please fax results to:
K. Hylton (716) 724-8683
B. Carey (716) 724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

February 28, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA91603 To AA91605

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 27, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/22/96	07:00
Location Code:	GRNDTECH	Received by:	SW	02/23/96	12:15
Project Code:		Validated by:	BP	02/27/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 Client ID: RG&E WEST STATION 022296-M15 Phoenix I.D.: AA91603

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	590	10	ug/L	02/26/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/26/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 27, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 27, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart Drive
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/22/96	07:30
Location Code:	GRNDTECH	Received by:	SW	02/23/96	12:15
Project Code:		Validated by:	BP	02/27/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E WEST STATION 022296-M16 Phoenix I.D.: AA91604

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			02/26/96	E/J	EPA 1311
TCLP Extraction Metals	Completed			02/26/96	ES	EPA 1311
TCLP Arsenic	0.14	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Barium	1.09	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Cadmium	0.049	0.005	mg/L	02/26/96	EK	E1311/SW6010
TCLP Chromium	0.02	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Lead	0.050	0.015	mg/L	02/26/96	EK	E1311/SW6010
TCLP Selenium	0.04	0.02	mg/L	02/26/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			02/26/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	02/26/96	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			02/26/96	JM	EPA 1311
******* TCLP Volatiles *******						
Benzene	260	1.0	ug/L	02/26/96	HC	SW 8020
Methyl ethyl ketone	23	1.0	ug/L	02/26/96	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	140	100.0	ug/L	02/26/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	1100	100.0	ug/L	02/26/96	SS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	02/26/96	SS	SW 8270
Nitrobenzene	ND	100.0	ug/L	02/26/96	SS	SW 8270
Pyridine	ND	100.0	ug/L	02/26/96	SS	SW 8270

 Client ID: RG&E WEST STATION 022296-M16 Phoenix I.D.: AA91604

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 27, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 27, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA91605 Location code: GRNDTECH
Location Description: RG&E WEST STATION QC91603-04
Sample collector: BRIAN CAREY
Sample collection date: 02/22/96 Time: 07:30
Lab submittal date: 02/23/96 Time: 12:15
MATRIX: SOLID

Parameter	Result	Units	MDL
Volatile (GC) Analysis QC	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40 ppb	QC BLANK	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	98%	105%	7%
Chlorobenzene	ND	98%	106%	8%
1,1-Dichloroethylene	ND	99%	107%	8%
Toluene	ND	98%	105%	7%
Trichloroethylene	ND	90%	93%	3%

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	98	71	0.0
Hg Mercury	<0.005	100	86	0.0
Pb Lead	<0.005	81	97	0.0
Sb Antimony	<0.005	106	86	0.0

Data for AA Metals Analysis QC (continued):

Se Selenium	<0.005	96	70	0.0
Tl Thallium	<0.005	95	84	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	98	94	2.6

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	104	101	0.0
Al Aluminum				
As Arsenic	<0.10	113	98	NC
B Boron				
Ba Barium	<0.01	102	94	0.0
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	105	102	0.0
Co Cobalt				
Cr Chromium	<0.01	108	94	0.0
Cu Copper	<0.01	99	102	0.5
Fe Iron				
K Potassium				
Mg Magnesium				
Mn Manganese				
Mo Molybdenum				
Na Sodium				
Ni Nickel	<0.01	104	101	0.0
P Phosphorus				
Pb Lead	<0.10	112	86	8.2
Se Selenium	<0.10	111	110	NC
Si Silicon				
Sn Tin	<0.10	106	105	0.0
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	105	94	0.3
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Semivolatile QC Data (MS)*:

	Matrix Spike	Matrix Spike Dup	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	(%Rec)	(%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RGIE WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 634-6881

Client Sample - Information - Identification

Sampler's Signature: x [signature] Date: 2/22/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene	TCLP Metals	TCLP Organics Specific List - PCB	VOA Vials	PLE ( ) HNO3 ( ) GLC ( )	PLC ( ) NaOH ( ) GLC ( )	PLC ( ) AS ( ) GL + H2SO4 ( )	Field Filtered + HNO3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
	RGE022296-M15	SOLID	2/22	7:00	X									916603
	RGE022296-M16	SOLID	2/22	7:30		X	X							916604
														916605 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature] RGIE	[signature] FedEx	2/	
		[signature]	2/23	12:15

Comments: 48 HR TAT

FAX RESULTS TO:

K. HYLTON - 716-724-8683
B. CAREY - 716-724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

fedEx USA Airbill 8114121385

Fedex Retrieval Copy

1 From

Date 2-22-96 Sender's FedEx Account Number 1380-1735-4

Sender's Name BRIAN CAREY Phone 716 634-1291

Company GROUNDWATER TECH

Address 60 EARHART #14

City BUFFALO ~~AC~~ State NY ZIP 14221

2 Your Internal Billing Reference Information 01110-0268

3 To

LAB 203 645-1102

PHEONIX ENVIRONMENTAL

587 EAST MIDDLE TURNPIKE

MANCHESTER CT 06040

4a Service

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5 Packaging

X FedEx Packaging

6 Special Handling

7 X

15 Total Charges

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

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February 27, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA91603 To AA91605

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 27, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/22/96	07:00
Location Code:	GRNDTECH	Received by:	SW	02/23/96	12:15
Project Code:		Validated by:	BP	02/27/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E WEST STATION 022296-M15** Phoenix I.D.: AA91603

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	590	10	ug/L	02/26/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/26/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 27, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 27, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart Drive
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/22/96	07:30
Location Code:	GRNDTECH	Received by:	SW	02/23/96	12:15
Project Code:		Validated by:	BP	02/27/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E WEST STATION 022296-M16 Phoenix I.D.: AA91604

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			02/26/96	E/J	EPA 1311
TCLP Extraction Metals	Completed			02/26/96	ES	EPA 1311
TCLP Arsenic	0.14	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Barium	1.09	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Cadmium	0.049	0.005	mg/L	02/26/96	EK	E1311/SW6010
TCLP Chromium	0.02	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Lead	0.050	0.015	mg/L	02/26/96	EK	E1311/SW6010
TCLP Selenium	0.04	0.02	mg/L	02/26/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	02/26/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			02/26/96	JE	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	02/26/96	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			02/26/96	JM	EPA 1311
******* TCLP Volatiles *******						
Benzene	260	1.0	ug/L	02/26/96	HC	SW 8020
Methyl ethyl ketone	23	1.0	ug/L	02/26/96	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	140	100.0	ug/L	02/26/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	1100	100.0	ug/L	02/26/96	SS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	02/26/96	SS	SW 8270
Nitrobenzene	ND	100.0	ug/L	02/26/96	SS	SW 8270
Pyridine	ND	100.0	ug/L	02/26/96	SS	SW 8270

 Client ID: RG&E WEST STATION 022296-M16 Phoenix I.D.: AA91604

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 27, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 27, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA91605 Location code: GRNDTECH
Location Description: RG&E WEST STATION QC91603-04
Sample collector: BRIAN CAREY
Sample collection date: 02/22/96 Time: 07:30
Lab submittal date: 02/23/96 Time: 12:15
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	98%	105%	7%
Chlorobenzene	ND	98%	106%	8%
1,1-Dichloroethylene	ND	99%	107%	8%
Toluene	ND	98%	105%	7%
Trichloroethylene	ND	90%	93%	3%

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	98	71	0.0
Hg Mercury	<0.005	100	86	0.0
Pb Lead	<0.005	81	97	0.0
Sb Antimony	<0.005	106	86	0.0

Data for AA Metals Analysis QC (continued):

Se Selenium	<0.005	96	70	0.0
Tl Thallium	<0.005	95	84	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	98	94	2.6

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	104	101	0.0
Al Aluminum				
As Arsenic	<0.10	113	98	NC
B Boron				
Ba Barium	<0.01	102	94	0.0
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	105	102	0.0
Co Cobalt				
Cr Chromium	<0.01	108	94	0.0
Cu Copper	<0.01	99	102	0.5
Fe Iron				
K Potassium				
Mg Magnesium				
Mn Manganese				
Mo Molybdenum				
Na Sodium				
Ni Nickel	<0.01	104	101	0.0
P Phosphorus				
Pb Lead	<0.10	112	86	8.2
Se Selenium	<0.10	111	110	NC
Si Silicon				
Sn Tin	<0.10	106	105	0.0
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	105	94	0.3
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Semivolatile QC Data (MS):

	Matrix Spike	Matrix Spike Dup	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	(%Rec)	(%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RG&E WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 634-6881

Client Sample - Information - Identification

Sampler's Signature: x Brian Carey Date: 2/22/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	TCLP METALS	TCLP ORGANICS (SPECIAL LIST - RGE)	VOA VIALS PL( ) GL( ) HNO3 ( )	PL( ) GL( ) * NaOH ( )	PL( ) GL( ) AS ( )	GL * H2SO4 ( )	Field * Filtered ( )	Bacteria Bottle HNO3 ( )	PHOENIX SAMPLE #
	RGE022296-M15	SOLID	2/22	7:00	X									91603
	RGE022296-M16	SOLID	2/22	7:30		X	X							91604
														91605 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	[signature]	2/	
	FEDEX	[signature]	2/23	12:15

Comments: 48 HR TAT

FAX RESULTS TO:

K. HYLTON - 716-724-8683
B. CAREY - 716-724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

fedEX USA Airbill

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FedEx Retrieval Copy

1 From

Date 2-22-96 Sender's FedEx Account Number 1380-1735-4

Sender's Name BRIAN CAREY Phone (716 634-1291

Company GROUNDWATER TECH

Address 60 EARHART #14

City BUFFALO ~~AV~~ State NY ZIP 14221

2 Your Internal Billing Reference Information 01110-0268

3 To

LAB 203 645-1102

PHEONIX ENVIRONMENTAL

587 EAST MIDDLE TURNPIKE

MANCHESTER CT 06040

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PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

February 22, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA91179 & AA91180

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 22, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/16/96	17:00
Location Code:	GRNDTECH	Received by:	SW	02/19/96	10:00
Project Code:		Validated by:	BP	02/21/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E WEST STATION 021696-M13 Phoenix I.D.: AA91179

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			02/20/96	E/M	EPA 1311
TCLP Extraction Metals	Completed			02/20/96	ES	EPA 1311
TCLP Arsenic	0.14	0.01	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Barium	1.30	0.01	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Cadmium	0.049	0.005	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Selenium	0.04	0.02	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	02/21/96	E/R	E1311/SW6010
TCLP Digestion Mercury	Completed			02/21/96	JM	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	02/21/96	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			02/20/96	BA	EPA 1311
******* TCLP Volatiles *******						
Benzene	130	1.0	ug/L	02/20/96	HC	SW 8020
Methyl ethyl ketone	23	1.0	ug/L	02/20/96	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	ND	100.0	ug/L	02/21/96	SS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	150	100.0	ug/L	02/21/96	SS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	02/21/96	SS	SW 8270
Nitrobenzene	ND	100.0	ug/L	02/21/96	SS	SW 8270
Pyridine	ND	100.0	ug/L	02/21/96	SS	SW 8270

 Client ID: RG&E WEST STATION 021696-M13 Phoenix I.D.: AA91179

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber, Laboratory Director
February 22, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 22, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA91180 Location code: GRNDTECH
Location Description: RG&E WEST STATION QC91179
Sample collector: BRIAN CAREY
Sample collection date: 02/16/96 Time: 17:00
Lab submittal date: 02/19/96 Time: 10:00
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	97	103	3.0
Hg Mercury	<0.005	102	87	0.0
Pb Lead	<0.005	92	110	3.3
Sb Antimony	<0.005	103	110	0.0
Se Selenium	<0.005	87	82	0.0
Tl Thallium	<0.005	95	84	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	95	88	11

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)

Data for ICP Metals Analysis QC (continued):

Ag Silver	<0.01	98	90	0.0
Al Aluminum	<0.01	102	94	1.0
As Arsenic	<0.10	108	94	NC
B Boron				
Ba Barium	<0.01	101	99	0.0
Be Beryllium	<0.01	109	104	0.0
Ca Calcium	<0.10	107	87	0.3
Cd Cadmium	<0.01	113	103	0.0
Co Cobalt	<0.01	108	98	0.0
Cr Chromium	<0.01	105	103	0.0
Cu Copper	<0.01	105	98	0.0
Fe Iron	<0.01	111	113	0.0
K Potassium	<0.10	90	102	1.1
Mg Magnesium	<0.01	106	88	0.0
Mn Manganese	<0.01	106	111	0.0
Mo Molybdenum				
Na Sodium	<0.10	113	104	0.0
Ni Nickel	<0.01	113	105	0.0
P Phosphorus	<0.10	104	92	0.0
Pb Lead	<0.10	105	102	NC
Se Selenium	<0.10	102	97	0.0
Si Silicon				
Sn Tin				
Sr Strontium				
V Vanadium	<0.01	105	102	0.0
Ti Titanium				
Zn Zinc	<0.01	109	99	0.0
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	98%	105%	7%
Chlorobenzene	ND	98%	106%	8%
1,1-Dichloroethylene	ND	99%	107%	8%
Toluene	ND	98%	105%	7%
Trichloroethylene	ND	90%	93%	3%

Data for Semivolatile QC Data (MS):

	Matrix Spike	Matrix Spike Dup	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	(%Rec)	(%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RITE WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 631-6881

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 2/16/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS (SPEC LIST - RCRA)	TCLP ORGANICS (SPEC LIST - RCRA)	VOA VIALS	( ) ML	( ) ML	( ) ML	( ) ML	( ) ML	PHOENIX SAMPLE #
RGE01AG-M13		SOLID	2/16	1700	X	X			2				911791
													911806

Item #	Relinquished By:	Accepted by:	Date:	Time:
	_____	Fed ex	2-19	
	Fed Ex	_____	2-19	10:00

Comments: FAX RESULTS TO
K. HYLTON 716 724 8683
B. CAREY 716 724 8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 _X_2 ___3 ___4 ___5 working days.

FedEx. USA Airbill

Tracking Number 811412136 3

Recipient's Copy

1 From

Date 2/16/96

Sender's Name BRIAN CASEY Phone (716) 634 1291

Company GROUNDWATER TECHNOLOGY Dept/Floor Suite/Room

Address 60 EARHART #14

City BUFFALO State NY Zip 14221

2 Your Internal Billing Reference Information 0110-0268-02

3 To

Recipient's Name LAB Phone (203) 645-1102

Company PHOENIX Dept/Floor Suite/Room

Address 587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT ZIP 06040

For "HOLD" Service check here ☐ Weekday ☐ Saturday

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*Declared value limit $500

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☐ Yes ☐ Yes ☐ Dry Ice ☐ CA ☐ Cargo Aircraft Only

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Bill to: ☒ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check ☐ Obtain Recipient FedEx Account No

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587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
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File Code:

February 20, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA90903 To AA90905

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 20, 1995

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		02/13/96	11:30
Location Code:	GRNDTECH	Received by:	SW	02/14/96	10:55
Project Code:		Validated by:	BP	02/16/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 Client ID: RG&E W.STATION 021396-M8-P15 Phoenix I.D.: AA90903

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	88	5	ug/L	02/15/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/15/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 20, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 20, 1995

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		02/13/96	16:30
Location Code:	GRNDTECH	Received by:	SW	02/14/96	10:55
Project Code:		Validated by:	BP	02/16/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W.STATION 021396-M9-P16** Phoenix I.D.: AA90904

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	4	1.0	ug/L	02/16/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/15/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 20, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 20, 1995

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA90905 Location code: GRNDTECH
Location Description: RG&E W.STATION QC90903-04
Sample collection date: 02/13/96 Time: 16:30
Lab submittal date: 02/14/96 Time: 10:55
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	104%	103%	<1%
Chlorobenzene	ND	90%	89%	1%
1,1-Dichloroethylene	ND	91%	89%	2%
Toluene	ND	105%	107%	2%
Trichloroethylene	ND	86%	84%	2%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO NY 14221

Project: RGE WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 634-6881

| Client Sample - Information - Identification | | | | | Analysis Requested | | | | |

FedEx USA Airbill

701685480 6

FedEx Retrieval Copy

1 From

Date 2/13/96 Sender's FedEx Account Number 1380-1735-4

Sender's Name BRIAN CAREY Phone (716) 634-1291

Company GROUNDWATER TECH Dept/Floor/Suite/Room

Address 60 EARHART #14

City BUFFALO State NY ZIP 14221

2 Your Internal Billing Reference Information 01110-0268-02

3 To

Recipient's Name LAB Phone (203) 645-1102

Company PHEONIX Dept/Floor/Suite/Room

Address 587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT ZIP 06040

For "HOLD" Service check here [ ] Weekday [ ] Saturday

For Saturday Delivery check here [ ]

4 Service X

5 Packaging [ ] FedEx Box [ ] FedEx Tube [X] Other Packaging

6 Special Handling

Does this shipment contain dangerous goods? X [ ] No [ ] Yes [ ] Yes

[ ] Cargo Aircraft Only

7 Payment [ ] Obtain Recipient FedEx Account No

Bill to: X [ ] Third Party [ ] Credit Card [ ] Cash/Check

Exp. Date

Total Packages 1 Total Weight 5 Total Declared Value .00 Total Charges $

Credit Card Auth.

8 Release Signature

194

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

February 20, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA91025 To AA91029

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 20, 1995

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/14/96	14:00
Location Code:	GRNDTECH	Received by:	SW	02/15/96	10:45
Project Code:		Validated by:	BP	02/19/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Client ID: RG&E W.STATION 021496-M10-P17 Phoenix I.D.: AA91025

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	48	1.0	ug/L	02/19/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/16/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 20, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 20, 1995

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/14/96	17:00
Location Code:	GRNDTECH	Received by:	SW	02/15/96	10:45
Project Code:		Validated by:	BP	02/19/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 Client ID: RG&E W.STATION 021496-M11-P18 Phoenix I.D.: AA91026

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	190	1.0	ug/L	02/19/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/16/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 20, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 20, 1995

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/14/96	17:00
Location Code:	GRNDTECH	Received by:	SW	02/15/96	10:45
Project Code:		Validated by:	BP	02/19/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W.STATION 021496M11P18DUP** Phoenix I.D.: AA91027

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	220	1.0	ug/L	02/19/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/16/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 20, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 20, 1995

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/14/96	18:00
Location Code:	GRNDTECH	Received by:	SW	02/15/96	10:45
Project Code:		Validated by:	BP	02/19/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W.STATION 021496-M12-P13** Phoenix I.D.: **AA91028**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	97	1.0	ug/L	02/19/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/16/96	ES	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 20, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 20, 1995

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA91029 Location code: GRNDTECH
Location Description: RG&E WEST STATION QC91025-28
Sample collector: BRIAN CAREY
Sample collection date: 02/14/96 Time: 18:00
Lab submittal date: 02/15/96 Time: 10:45
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	104%	103%	<1%
Chlorobenzene	ND	90%	89%	1%
1,1-Dichloroethylene	ND	91%	89%	2%
Toluene	ND	105%	107%	2%
Trichloroethylene	ND	86%	84%	2%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 60 EARHART #14
BUFFALO, NY 14221

Project: RGHE WEST STATION
Report To: K. HYLTON, B. CAREY
Invoice To: B. CAREY

Project P.O. _____
Phone #: 716 634-1291
Fax #: 716 631-6881

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 2-14-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	PHOENIX SAMPLE #
RGE021496-MW-P17	SOLID	2/14	9:30	X	91025
RGE021496-MW-P18	SOLID	2/14	17:00	X	91026
RGE021496-MW-P18 DUP	SOLID	2/14	1700	X	91027
RGE021496-MW-P13	SOLID	2/14	1800	X	91028
					91029 GC

TCLP BENZENE

VOA VIALS PL( ) GL( ) HNO_3 ( )
PL( ) GL( ) + N_2OH ( )
PL( ) GL( ) AS ( )
GL + H_2SO_4 ( )
Field Filtered + HNO_3 ( )
Bacteria Bottle
) ML
) ML
) ML
) ML
) ML

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	2-15	10:45

Comments: 48 HR TAT

FAX RESULTS TO:

K. HYLTON 716-724-8683

B. CAREY 716-724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

FedEx USA Airbill

7016854795

FedEx Retrieval Copy

1 From

Date 2-14-96 Sender's FedEx Account Number 1380-1735-4

Sender's Name BRIAN CAREY Phone 716 634-1291

Company GROUNDWATER TECHNOLOGY

Address 60 EARHART #14

City BUFFALO State NY ZIP

2 Your Internal Billing Reference 01110-0268

3 To

Recipient's Name LAB Phone 203 645-1102

Company PHEONIX

Address 587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT ZIP 06040

For "HOLD" Service check here

For Saturday Delivery check here

4 Express

5 Packaging

6 Special Handling

Does this shipment contain dangerous goods?

7 Payment

Total Packages 1

Total Weight 6

Total Declared Value

Total Charges

Credit Card Auth.

8 Recipient Signature

7 0 1 6 8 5 4 7 9 5

194

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
Route To:
FEB 21 1996
Prot:
File Code:

February 16, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA90793 To AA90795

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	02/09/96	16:30
Location Code:	GRNDTECH	Received by:	SW	02/12/96	16:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W.STATION 020996-M6-P14** Phoenix I.D.: **AA90793**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	71	10	ug/L	02/13/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/13/96	E/M	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 16, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	02/09/96	17:00
Location Code:	GRNDTECH	Received by:	SW	02/12/96	16:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W.STATION 020996-M7 Phoenix I.D.: AA90794

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			02/13/96	E/R	EPA 1311
TCLP Arsenic	0.14	0.01	mg/L	02/13/96	EK	E1311/SW6010
TCLP Barium	0.85	0.01	mg/L	02/13/96	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	02/13/96	EK	E1311/SW6010
TCLP Chromium	0.04	0.01	mg/L	02/13/96	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	02/13/96	EK	E1311/SW6010
TCLP Selenium	0.03	0.02	mg/L	02/13/96	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	02/13/96	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			02/13/96	JM	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	02/13/96	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			02/13/96	E/M	EPA 1311
TCLP Extraction Semi-Vol	Completed			02/14/96	D/J	EPA 1311
	ND	0	ug/L	02/14/96	RM	SW 8270
******* TCLP Semivolatiles	*******	0				
2-Methylphenol	1800	100.0	ug/L	02/14/96	RM	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	4400	100.0	ug/L	02/14/96	RM	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	02/14/96	RM	SW 8270
Nitrobenzene	ND	100.0	ug/L	02/14/96	RM	SW 8270
Pyridine	ND	100.0	ug/L	02/14/96	RM	SW 8270
******* TCLP Volatiles	*******	0				
Benzene	95	10.0	ug/L	02/13/96	HC	SW 8020
Methyl ethyl ketone	ND	10.0	ug/L	02/13/96	HC	SW 8020

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 16, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA90795 Location code: GRNDTECH
Location Description: RG&E W.STATION QC90793-94
Sample collector: BC
Sample collection date: 02/09/96 Time: 17:00
Lab submittal date: 02/12/96 Time: 16:30
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	104%	103%	<1%
Chlorobenzene	ND	90%	89%	1%
1,1-Dichloroethylene	ND	91%	89%	2%
Toluene	ND	105%	107%	2%
Trichloroethylene	ND	86%	84%	2%

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	96	77	0.0
Hg Mercury	<0.005	90	90	0.0
Pb Lead	<0.005	85	98	0.0
Sb Antimony	<0.005	110	96	0.0

Data for AA Metals Analysis QC (continued):

Se Selenium	<0.005	92	78	0.0
Tl Thallium	<0.005	96	97	0.0
Ag Silver	<0.05	97	76	0.0
Au Gold	<0.05	101	103	0.0
Cu Copper	<0.005	95	88	11

Data for ICP Metals Analysis QC:

QC Source: ERA 9966 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	104	101	0.0
Al Aluminum				
As Arsenic	<0.10	91	96	NC
B Boron				
Ba Barium	<0.01	102	84	6.1
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	102	85	0.0
Co Cobalt				
Cr Chromium	<0.01	99	88	0.0
Cu Copper				
Fe Iron				
K Potassium				
Mg Magnesium				
Mn Manganese				
Mo Molybdenum				
Na Sodium				
Ni Nickel				
P Phosphorus				
Pb Lead	<0.10	108	97	0.0
Se Selenium	<0.10	85	92	NC
Si Silicon				
Sn Tin				
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc				
Zr Zirconium				
Bi Bismuth				
Sb Antimony				
Tl Thallium				

Data for Semivolatile QC Data (MS):

	Matrix Spike	Matrix Spike Dup	Relative % Diff.

Data for Semivolatile QC Data (MS) (continued):

Analyte	(%Rec)	(%Rec)	(% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH
Address 60 EARHART #14
BUFFALO, NY 14221

Project: RG+E WEST STATION
Report To: KEVIN HYLTON, BRIAN CAREY
Invoice To: BRIAN CAREY

Project P.O. _____
Phone #: (716) 634-1291
Fax #: (716) 634-6881

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 2-9-96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS	TCLP VOLATILES (SPECIAL LIST-BAE)	TCLP BENZENE	VOA VIALS PL( ) HNO3 ( ) GL( )	PL( ) NaOH ( ) GL( )	PL( ) AS ( ) GL(4)	GL + H2SO4	Field * HNO3 ( ) Filtered	Bacteria Bottle	PHOENIX SAMPLE #
	RGE020996-MW-P14	SOLID	2/9/96	16:30			X		12					90793
	RGE020996-MW	SOLID	2/9/96	1700	X	X			2					90794
														90795 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	FedEx	2-9-96	18:30
	FedEx	C.O. Pumbo	2/12/96	16:30

Comments: 48 HR TAT

FAX RESULTS TO:

KEVIN HYLTON: 716-724-8683

BRIAN CAREY: 716-724-8734

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 _X_2 ___3 ___4 ___5 working days.

FedEx USA Airbill

7016854843

FedEx Retrieval Copy

1 From

Date 2-9-96 Sender's FedEx Account Number 1380-1734-4

Sender's Name BRIAN CAREY Phone 716 634-1291

Company ~~MACTEC~~ GROUNDWATER TECH Dept/Floor/Suite/Room

Address 60 EARHART DR #14

City BUFFALO State NY ZIP 14221

2 Your Internal Billing Reference Information 01110-0268

3 To

CAB 203-645-1102

Company PHOENIX LABS Dept/Floor/Suite/Room

587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT ZIP 06040

For "HOLD" Service check here

For Saturday Delivery check here

4 Service

X

FedEx Priority Overnight | FedEx Standard Overnight | FedEx 2Day

FedEx First Overnight

FedEx Priority Freight | FedEx 2Day Freight

5D

6 Packaging

FedEx Envelope | FedEx Pak | FedEx Box | FedEx Tube | X Other Packaging

7 Special Handling

Does this shipment contain dangerous goods? X No | Yes | Yes

PA | Cargo Aircraft Only

8 Payment

Bill to A

Recipient | Third Party | Credit Card | Cash/Check

FedEx Account No.

Exp. Date

Total Declared Value 00 $

Total Charges

Credit Card Auth

9 Release Signature

1 Total Pkgs 6 Total Weight

194

7016854843

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

February 16, 1996

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Brian Carey

Sample I.D.# AA90651 To AA90656

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/08/96	08:00
Location Code:	GRNDTECH	Received by:	SW	02/09/96	11:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E WEST STATION 020896-M1-P9** Phoenix I.D.: **AA90651**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	87	1.0	ug/L	02/12/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/12/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 16, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/08/96	08:00
Location Code:	GRNDTECH	Received by:	SW	02/09/96	11:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 020896-M2-P10** Phoenix I.D.: **AA90652**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	55	1.0	ug/L	02/12/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/12/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 16, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/08/96	13:30
Location Code:	GRNDTECH	Received by:	SW	02/09/96	11:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 020896-M3-P11** Phoenix I.D.: **AA90653**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	110	1.0	ug/L	02/12/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/12/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 16, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: **Attn: Mr. Brian Carey**
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/08/96	13:45
Location Code:	GRNDTECH	Received by:	SW	02/09/96	11:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 020896-M4-P12** Phoenix I.D.: **AA90654**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	460	10	ug/L	02/13/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/12/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 16, 1996

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

February 16, 1996

FOR: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	02/08/96	16:00
Location Code:	GRNDTECH	Received by:	SW	02/09/96	11:30
Project Code:		Validated by:	BP	02/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION 020896-M5-P13** Phoenix I.D.: **AA90655**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	510	10	ug/L	02/13/96	HC	SW 8020
TCLP Extraction Volatiles.	Completed			02/12/96	E/J	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
February 16, 1996

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

February 16, 1996

To: Attn: Mr. Brian Carey
Groundwater Technology
60 Earhart #14
Buffalo, NY 14221

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA90656 Location code: GRNDTECH
Location Description: RG&E W STATION QC90651-55
Sample collector: BRIAN CAREY
Sample collection date: 02/08/96 Time: 16:00
Lab submittal date: 02/09/96 Time: 11:30
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

	QC BLANK	QC Sample Matrix Spike	QC Sample Matrix Dup Spike	QC Spike RPD
Sample Spike 40	ppb	Rec	Rec	
Benzene	ND	104%	103%	<1%
Chlorobenzene	ND	90%	89%	1%
1,1-Dichloroethylene	ND	91%	89%	2%
Toluene	ND	105%	107%	2%
Trichloroethylene	ND	86%	84%	2%

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 60 EARHART #14
BUFFALO, NY 14221

Project: RG&E WEST STATION
Report To: KEVIN HYLTON BRIAN CAREY
Invoice To: BRIAN CAREY

Project P.O. _____
Phone #: 716
Fax #: 716

Client Sample - Information - Identification

Sampler's Signature: x [signature] Date: 2/8/96

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP BENZENE	VOA VIALS PL( ) HNO3 ( ) GL( ) HNO3 ( )	PL( ) + NaOH ( ) GL( ) + NaOH ( )	PL( ) AS ( ) GL( ) AS ( )	GL + H2SO4 ( )	Field Filtered + HNO3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
						1 ML	1 ML	1 ML	1 ML	1 ML		
	RGE020896-M1-P9	SOLID	2/8	8:00	X	1						90651
	RGE020896-M2-P10	SOLID	2/8	8:00	X	1						90652
	RGE020896-M3-P11	SOLID	2/8	13:30	X	1						90653
	RGE020896-M4-P12	SOLID	2/8	13:45	X	1						90654
	RGE020896-M5-P13	SOLID	2/8	16:00	X	1						90655
												90656 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	[signature]	2-9-96	11:30

Comments: FAX RESULTS TO:
KEVIN HYLTON - 716-724-8683
BRIAN CAREY - 716-724-8734

48HR TAT

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

FedEx USA Airbill

7016854795

FedEx Retrieval Copy

1 From

Date 2-14-96 FedEx Acct. No. 1380-1735-4

Sender's Name BRIAN CAREY Phone 716 634-1291

Company GROUNDWATER TECHNOLOGY

Address 60 EARHART #14

City BUFFALO State NY

2 Your Internal Billing Reference 01110-0268

3 To

Recipient's Name LAB Phone 203 645-1102

Company PHOENIX

Address 587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT ZIP 06040

For "HOLD" Service check here ☐

For Saturday Delivery check here ☐

4 Service ☒

5 Packaging ☒

6 Special Handling ☒

7 Payment ☒

Total Packages 1 Total Weight 6 Total Declared Value $ Total Charges $

8 Recipient Signature

194

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

November 21, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA83131 To AA83132

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 21, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		11/14/95	17:00
Location Code:	GRNDTECH	Received by:	AR	11/15/95	13:50
Project Code:		Validated by:	BP	11/20/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: WEST STATION RGE-111495-S30-P5 Phoenix I.D.: **AA83131**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Semi-Vol	Completed			11/16/95	R\E	EPA 1311
TCLP Extraction Metals	Completed			11/16/95	JE	EPA 1311
TCLP Arsenic	0.01	0.01	mg/L	11/16/95	EK	E1311/SW6010
TCLP Barium	0.02	0.01	mg/L	11/16/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	11/16/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	11/16/95	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	11/16/95	EK	E1311/SW6010
TCLP Mercury	BDL	0.002	mg/L	11/17/95	RS	E1311/SW7470
TCLP Selenium	0.02	0.02	mg/L	11/16/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	11/16/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			11/16/95	ES	EPA 1311
TCLP Extraction Volatiles.	Completed			11/16/95	B/J	EPA 1311
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	400	20.0	ug/L	11/16/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	270	20.0	ug/L	11/16/95	CAS	SW 8270
2-4-Dinitrotoluene	ND	20.0	ug/L	11/16/95	CAS	SW 8270
Nitrobenzene	ND	20.0	ug/L	11/16/95	CAS	SW 8270
Pyridine	ND	20.0	ug/L	11/16/95	CAS	SW 8270
******* TCLP Volatiles *******						
Benzene	66	1.0	ug/L	11/16/95	HC	SW 8020
Methyl ethyl ketone	15	1.0	ug/L	11/16/95	HC	SW 8020

 Client ID: WEST STATION RGE-111495-S30-P5 Phoenix I.D.: AA83131

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 21, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

November 21, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA83132 Location code: GRNDTECH
Location Description: WEST STATION RGE QC83131
Sample collection date: 11/14/95 Time: 17:00
Lab submittal date: 11/15/95 Time: 13:50
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---
a Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	100%	103%	3%
Chlorobenzene	ND	106%	99%	7%
1,1-Dichloroethylene	ND	99%	102%	3%
Toluene	ND	102%	102%	<1%
Trichloroethylene	ND	106%	111%	5%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----

Data for Semivolatile QC Data (MS) (continued):

2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

Data for a Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	96	107	0.0
Hg Mercury	<0.005	85	116	0.0
Pb Lead	<0.005	105	104	0.0
Sb Antimony	<0.005	90	88	0.0
Se Selenium	<0.005	111	107	0.0
Tl Thallium	<0.005	99	94	0.0
Ag Silver	<0.05	101	103	0.0
Au Gold	<0.05	100	113	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	106	100	0.0
Al Aluminum	<0.01	99	87	0.0
As Arsenic	<0.01	83	103	2.6
B Boron				
Ba Barium	<0.01	104	110	0.0
Be Beryllium	<0.01	105	103	0.0
Ca Calcium				
Cd Cadmium	<0.01	104	102	0.0
Co Cobalt				
Cr Chromium	<0.01	99	104	0.0
Cu Copper	<0.01	100	97	0.0
Fe Iron	<0.01	115	95	0.0
K Potassium				
Mg Magnesium				

Data for ICP Metals Analysis QC (continued):

Mn Manganese	<0.01	108	98	0.0
Mo Molybdenum				
Na Sodium				
Ni Nickel	<0.01	103	105	0.0
P Phosphorus				
Pb Lead	<0.10	110	95	NC
Se Selenium	<0.02	103	89	0.0
Si Silicon				
Sn Tin	<0.10	96	103	0.0
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	103	99	0.0
Zr Zirconium				
Bi Bismuth				

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

fedex USA Airbill

8114121293

FedEx Retrieval Copy

1 From

Date: 11-14-95 Sender's FedEx Account Number: 1380-1735-4

Sender's Name: BRIAN CAREY Phone: (716) 634-1291

Company: GROUNDWATER TECHNOLOGY

Address: 60 EARHART #14

City: BUFFALO State: NY ZIP: 14221

2 Your Internal Billing Reference Information: 01110-0268-02

3 To

Recipient's Name: LAB Phone: 203 645-1102

Company: PHEONIX ENVIRONMENTAL

Address: 587 EAST MIDDLE TURNPIKE

City: MANCHESTER State: CT ZIP: 06040

For "HOLD" Service check here

4a Service

X

4b Packaging

X Other Packaging

5 Special Handling

Does this shipment contain dangerous goods? X No

6a Payment

X

Total Charges: $

Credit Card Auth:

6b Recipient's Signature

232

Rev. Date 7/95 PART #150982 FDX E 1095
PRINTED IN U.S.A.

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: ROCHESTER GAS & ELECTRIC
Address: 89 EAST AVE, ROCHESTER, NY

Project: WEST STATION
Report To: KEVIN HYLTON (716) 724-8683
Invoice To: MIKE LOUCY - GTI

Project P.O. _____
Phone #: 518 370-5631
Fax #: 518 370-5864

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 11/14/95

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS	TCLP ORGANICS + SPECIAL LIST-BASE	VOA VIALS	PL( ) HNO_3 GL( )	PL( ) $+NaOH$ GL( )	PL( ) AS GL( )	GL + H_2SO_4	Field Filtered + HNO_3	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE-111495-530-PS	Soil	11/14	17:00	X	X			2		4			83131
														83132QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	_____	_____	11/15/95	1:50

Comments: SEE LINDA REGARDING SPECIAL LIST ORGANICS

PLEASE FAX RESULTS TO KEVIN HYLTON - RG&E (716) 724-8683

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

November 17, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA82542 To AA82544

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 15, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	B CAREY	11/09/95	13:30
Location Code:	GRNDTECH	Received by:	AR	11/10/95	09:25
Project Code:		Validated by:	BP	11/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STATION RGE110995S23-P4** Phoenix I.D.: **AA82542**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	42	1.0	ug/L	11/14/95	HC	SW 8020
TCLP Extraction Volatiles.	Completed			11/13/95	BA	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 15, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 15, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	B CAREY	11/09/95	13:30
Location Code:	GRNDTECH	Received by:	AR	11/10/95	09:25
Project Code:		Validated by:	BP	11/15/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG&E W STATION RGE110995S24-P4** Phoenix I.D.: **AA82543**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			11/13/95	B/J	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	11/13/95	EK	E1311/SW6010
TCLP Barium	0.35	0.01	mg/L	11/13/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	11/13/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	11/13/95	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	11/13/95	EK	E1311/SW6010
TCLP Mercury	BDL	0.002	mg/L	11/13/95	RS	E1311/SW7470
TCLP Selenium	BDL	0.02	mg/L	11/13/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	11/13/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			11/13/95	ES	EPA 1311
TCLP Extraction Semi-Vol	Completed			11/13/95	S/R	EPA 1311
TCLP Extraction Volatiles.	Completed			11/13/95	B/R	EPA 1311
******* TCLP Acid/Base-Neutral *******		0				
2,4-Dinitrotoluene	ND	100.0	ug/L	11/13/95	CAS	SW 8270
Hexachlorobenzene	ND	100.0	ug/L	11/13/95	CAS	SW 8270
Hexachloro-1,3-butadiene	ND	100.0	ug/L	11/13/95	CAS	SW 8270
Hexachloroethane	ND	100.0	ug/L	11/13/95	CAS	SW 8270
2-Methylphenol (o-Cresol)	190	100.0	ug/L	11/13/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	440	100.0	ug/L	11/13/95	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	11/13/95	CAS	SW 8270
Pentachlorophenol	ND	500.0	ug/L	11/13/95	CAS	SW 8270
Pyridine	ND	100.0	ug/L	11/13/95	CAS	SW 8270
2,4,5-Trichlorophenol	ND	100.0	ug/L	11/13/95	CAS	SW 8270
2,4,6-Trichlorophenol	ND	100.0	ug/L	11/13/95	CAS	SW 8270
1,4-Dichlorobenzene	ND	100.0	ug/L	11/13/95	CAS	SW 8270

Continued next page . . .

Client ID: RG&E W STATION RGE110995S24-P4

Phoenix I.D.: **AA82543**

Parameter	Result	MDL	Units	Date	by	Reference
******* TCLP Volatiles *******						
Benzene	66	50	ug/L	11/13/95	JW	SW 8240
Carbon tetrachloride	ND	50	ug/L	11/13/95	JW	SW 8240
Chlorobenzene	ND	50	ug/L	11/13/95	JW	SW 8240
Chloroform	ND	50	ug/L	11/13/95	JW	SW 8240
1,2-Dichloroethane	ND	50	ug/L	11/13/95	JW	SW 8240
1,1-Dichloroethylene	ND	50	ug/L	11/13/95	JW	SW 8240
Methyl ethyl ketone	990	50	ug/L	11/13/95	JW	SW 8240
Tetrachloroethylene	ND	50	ug/L	11/13/95	JW	SW 8240
Trichloroethylene	ND	50	ug/L	11/13/95	JW	SW 8240
Vinyl chloride	ND	50	ug/L	11/13/95	JW	SW 8240

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 15, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

November 15, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA82544 Location code: GRNDTECH
Location Description: RG&E W STATION QC82542-43
Sample collector: B CAREY
Sample collection date: 11/09/95 Time: 13:30
Lab submittal date: 11/10/95 Time: 09:25
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatiles (MS) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	96	107	0.0
Hg Mercury	<0.005	90	79	0.0
Pb Lead	<0.005	94	98	0.0
Sb Antimony	<0.005	92	94	0.0
Se Selenium	<0.005	94	92	0.0
Tl Thallium	<0.005	98	98	0.0
Ag Silver	<0.05	101	103	0.0
Au Gold	<0.05	100	113	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	103	97	0.0

Data for ICP Metals Analysis QC (continued):

Al Aluminum				
As Arsenic	<0.01	98	105	0.0
B Boron				
Ba Barium	<0.01	101	112	0.8
Be Beryllium	<0.01	106	108	0.0
Ca Calcium				
Cd Cadmium	<0.01	109	110	0.0
Co Cobalt				
Cr Chromium	<0.01	104	101	0.0
Cu Copper	<0.01	99	105	0.0
Fe Iron	<0.01	110	99	0.0
K Potassium				
Mg Magnesium				
Mn Manganese	<0.01	99	99	0.0
Mo Molybdenum				
Na Sodium	<0.10	90	99	0.0
Ni Nickel	<0.01	109	112	0.0
P Phosphorus				
Pb Lead	<0.10	109	97	0.5
Se Selenium	<0.02	99	96	0.0
Si Silicon				
Sn Tin				
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	111	111	0.0
Zr Zirconium				
Bi Bismuth				

Data for Volatiles (MS) Analysis QC:

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	88%	79%	10%
Chlorobenzene	77%	73%	5%
1,1-Dichloroethylene	108%	112%	4%
Toluene	105%	110%	5%
Trichloroethylene	95%	102%	7%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)
Acenaphthene	185%	195%	5.2%
4-Chloro-3-methylphenol	-----	-----	-----
2-Chlorophenol	69.0%	52.0%	28.0%
1,4-Dichlorobenzene	72.0%	67.0%	7.0%
2,4-Dinitrotoluene	53.0%	52.0%	2.0%
N-Nitroso-di-n-propylamin	120%	110%	8.60%
Pentachlorophenol	-----	-----	-----
Phenol	69.0%	59.0%	15.6%
Pyrene	-----	-----	-----
1,2,4-Trichlorobenzene	70 %	71%	1.4%
4-Nitrophenol	29.0%	43.0%	39.0%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH
Address 1245 KINGS RD
SCHENECTADY, NY 12303

Project: RG&E WEST STATION
Report To: MIKE LOUCY - KEVIN HYLTON (RGE)
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: 518 370-5631
Fax #: 518 370-5864

Client Sample - Information - Identification

Sampler's Signature: x [signature] Date: 11-9-95

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP Benzene ONLY	Full TCLP MIN/BE PEST/HERB	VOA VIALS PL( ) HNO3 GL( )	PL( ) + NaOH GL( )	PL( ) AS( ) GL + H2SO4	6 GL SOIL JARS	Field Filtered	Bacteria Bottle	PHOENIX SAMPLE #
RGE	10995-S23-P4	SOIL	11/9	13:30	X			1					82542
RGE	10995-S24-P4	SOIL	11/9	13:30		X		1					82543
													82544 RC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	S. White	10/10/95	9:25

Comments: 48 HR TAT ON FULL TCLP - PEST/HERB ONLY.
STANDARD TAT ON TCLP BENZENE

PLEASE FAX RESULTS TO
KEVIN HYLTON (RG&E)
716-724-8683

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

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Route To:
DEC 0 5 1995
Proj:
File Code:

December 1, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA84111 To AA84113

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 30, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	B CAREY	11/21/95	17:00
Location Code:	GRNDTECH	Received by:	SW	11/22/95	10:20
Project Code:		Validated by:	BP	11/29/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 2 **Client ID: RG&E W STATION RGE112195-S36P6** Phoenix I.D.: **AA84111**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			11/27/95	SS	EPA 1311
TCLP Digestion Mercury	Completed			11/28/95	ES	EPA 1311
TCLP Extraction Volatiles.	Completed			11/27/95	B/R	EPA 1311
TCLP Extraction Semi-Vol	Completed			11/27/95	S\J	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	11/27/95	EK	E1311/SW6010
TCLP Barium	BDL	0.01	mg/L	11/27/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	11/27/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	11/27/95	EK	E1311/SW6010
TCLP Lead	0.037	0.015	mg/L	11/27/95	EK	E1311/SW6010
TCLP Mercury	BDL	.001	mg/L	11/27/95	RS	E1311/E245.1
TCLP Selenium	BDL	0.02	mg/L	11/27/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	11/27/95	EK	E1311/SW6010
******* TCLP Volatiles *******						
Benzene	27	1.0	ug/L	11/27/95	HC	SW 8020
Methyl ethyl ketone	ND	1.0	ug/L	11/27/95	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	84	20.0	ug/L	11/27/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	110	20.0	ug/L	11/27/95	CAS	SW 8270
2-4-Dinitrotoluene	ND	20.0	ug/L	11/27/95	CAS	SW 8270
Nitrobenzene	ND	20.0	ug/L	11/27/95	CAS	SW 8270
Pyridine	ND	20.0	ug/L	11/27/95	CAS	SW 8270

 Client ID: RG&E W STATION RGE112195-S36P6 Phoenix I.D.: **AA84111**

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 30, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 30, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	B CAREY	11/21/95	17:00
Location Code:	GRNDTECH	Received by:	SW	11/22/95	10:20
Project Code:		Validated by:	BP	11/28/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG&E W STATION RGE112195-S35P6** Phoenix I.D.: **AA84112**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			11/27/95	B/R	EPA 1311
TCLP Benzene	25	1.0	ug/L	11/27/95	HC	SW 8020

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 30, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

November 29, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA84113 Location code: GRNDTECH
Location Description: RG&E W STATION QC84111-12
Sample collector: B CAREY
Sample collection date: 11/21/95 Time: 17:00
Lab submittal date: 11/22/95 Time: 10:20
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---
Volatiles (MS) Analysis QC	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	102	107	0.0
Hg Mercury	<0.005	98	87	0.0
Pb Lead	<0.005	89	92	0.0
Sb Antimony	<0.005	87	100	0.0
Se Selenium	<0.005	108	89	0.0
Tl Thallium	<0.005	90	79	0.0
Ag Silver	<0.05	101	103	0.0
Au Gold	<0.05	99	100	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)

Data for ICP Metals Analysis QC (continued):

Ag	Silver	<0.01	101	101	0.0
Al	Aluminum	<0.01	96	99	3.5
As	Arsenic	<0.01	102	110	0.0
B	Boron				
Ba	Barium	<0.01	101	106	1.4
Be	Beryllium	<0.01	105	103	0.0
Ca	Calcium	<0.10	106	99	0.0
Cd	Cadmium	<0.01	109	112	0.0
Co	Cobalt				
Cr	Chromium	<0.01	106	112	0.0
Cu	Copper	<0.01	102	103	0.0
Fe	Iron	<0.01	97	108	0.3
K	Potassium	<0.10	122	119	1.5
Mg	Magnesium	<0.01	104	99	0.6
Mn	Manganese	<0.01	100	111	1.2
Mo	Molybdenum				
Na	Sodium	<0.10	96	99	1.5
Ni	Nickel	<0.01	109	104	0.0
P	Phosphorus				
Pb	Lead	<0.10	115	100	0.0
Se	Selenium	<0.10	99	105	NC
Si	Silicon				
Sn	Tin	<0.10	103	107	3.6
Sr	Strontium				
V	Vanadium				
Ti	Titanium				
Zn	Zinc	<0.01	109	94	1.3
Zr	Zirconium				
Bi	Bismuth				

Data for Volatile (GC) Analysis QC:

Sample Spike	40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene		ND	97%	95%	2%
Chlorobenzene		ND	108%	103%	5%
1,1-Dichloroethylene		ND	100%	96%	4%
Toluene		ND	97%	94%	3%
Trichloroethylene		ND	94%	91%	3%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)

Data for Semivolatile QC Data (MS) (continued):

Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

Data for Volatiles (MS) Analysis QC:

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	101%	99%	2%
Chlorobenzene	98%	96%	2%
1,1-Dichloroethylene	102%	96%	6%
Toluene	96%	93%	3%
Trichloroethylene	93%	91%	2%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

FedEx USA Airbill

811412130 4

FedEx Retrieval Copy

1 From

Date 11-21-95 Sender's FedEx Account Number 1380-1735-4

Sender's Name BRIAN CAREY Phone (716) 634-1291

Company GROUNDWATER TECHNOLOGY Dept/Floor/Room

Address 60 EARHART #14

City BUFFALO State NY ZIP 14221

2 Your Internal Billing Reference Information 01110-0268-02

3 To

Recipient's Name LAB Phone (203) 645-1102

Company PHEONIX ENVIRONMENTAL Dept/Floor/Room

587 EAST MIDDLE TURNPIKE

City MANCHESTER State CT ZIP 06040

For "HOLD" Service check here

For Saturday Delivery check here

4 Service

X FedEx Priority Overnight | FedEx Standard Overnight | FedEx 2Day

FedEx Next Overnight | FedEx Express Saver

FedEx Overnight Freight | FedEx 2Day Freight

NEW FedEx First Overnight

5 Packaging

FedEx Letter | FedEx Pak | FedEx Box | FedEx Tube | X Other Packaging

6 Special Handling

Does this shipment contain dangerous goods?

Yes | Yes | Dry Ice | CAO | Cargo Aircraft Only

7 Payment

Bill to: X Sender | Recipient | Third Party | Credit Card | Cash/Check

Obtain Recipient FedEx Account No

Total Charges $

Credit Card Auth.

8 Release Signature

1

8 1 1 4 1 2 1 3 0 4

232

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PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 1245 KINGS RD
SCHENECTADY, NY 12303

Project: RG+E WEST STATION
Report To: MIKE LOUCY - KEVIN HYLTON
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: 518) 370-5631
Fax #: 518 370-5864

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 11/21/95

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS	TCLP ORGANICS	TCLP BENZENE	VOA VIALS	PL( ) HNO3 (GL( )	PL( ) + NaOH (GL( )	PL( ) AS (GLAA 15	GL + H2SO4	Field Filtered + HNO3 (	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE112195-536-PG	SOIL	11/21	17:00	X	X				1					84111
2	RGE112195-535-PG	SOIL	11/21	17:00			X			1					84112
															84113QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1, 2	_____	_____	11/22	10:20

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

Comments:
48 HR TAT ON TCLP METALS
TCLP ORGANICS

STANDARD TAT ON TCLP BENZENE

PLEASE FAX RESULTS TO:
KEVIN HYLTON - RG+E
(716) 724-8683

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

December 13, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Kevin Hylton

Sample I.D.# AA85150 To AA85151

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

December 13, 1995

FOR: **Attn: Mr. Kevin Hylton**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	12/01/95	16:00
Location Code:	GRNDTECH	Received by:	SW	12/04/95	11:45
Project Code:		Validated by:	BP	12/08/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG&E W STATION RGE120195-545P8** Phoenix I.D.: **AA85150**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			12/06/95	B/R	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	12/06/95	EK	E1311/SW6010
TCLP Barium	0.20	0.01	mg/L	12/06/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	12/06/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	12/06/95	EK	E1311/SW6010
TCLP Lead	BDL	0.015	mg/L	12/06/95	EK	E1311/SW6010
TCLP Selenium	0.02	0.02	mg/L	12/06/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	12/06/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			12/05/95	ES	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	12/05/95	RS	E1311/E245.1
TCLP Extraction Volatiles.	Completed			12/05/95	BA	EPA 1311
TCLP Extraction Semi-Vol	Completed			12/06/95	PL	EPA 1311
******* TCLP Volatiles *******						
Benzene	89	1.0	ug/L	12/06/95	HC	SW 8020
Methyl ethyl ketone	ND	1.0	ug/L	12/06/95	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	310	100.0	ug/L	12/07/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	390	100.0	ug/L	12/07/95	CAS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	12/07/95	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	12/07/95	CAS	SW 8270
Pyridine	ND	100.0	ug/L	12/07/95	CAS	SW 8270

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
December 13, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

December 13, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA85151 Location code: GRNDTECH
Location Description: RG&E W STATION QC85150
Sample collector: BC
Sample collection date: 12/01/95 Time: 16:00
Lab submittal date: 12/04/95 Time: 11:45
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatile (GC) Analysis QC	see below	---	---
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	99%	95%	4%
Chlorobenzene	ND	98%	100%	2%
1,1-Dichloroethylene	ND	89%	91%	2%
Toluene	ND	95%	94%	1%
Trichloroethylene	ND	89%	83%	7%

Data for AA Metals Analysis QC:

QC Source: ERA 9965
NY 2711-12

Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	104	101	0.0
Hg Mercury	<0.005	96	104	0.0
Pb Lead	<0.005	105	106	1.3
Sb Antimony	<0.005	100	91	0.0

Data for AA Metals Analysis QC (continued):

Se Selenium	<0.005	87	79	0.0
Tl Thallium	<0.005	94	86	0.0
Ag Silver	<0.05	101	103	0.0
Au Gold	<0.05	99	100	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	98	104	0.0
Al Aluminum				
As Arsenic	<0.01	92	109	NC
B Boron				
Ba Barium	<0.01	94	99	0.0
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	107	106	1.7
Co Cobalt				
Cr Chromium	<0.01	103	113	0.3
Cu Copper	<0.01	94	91	0.0
Fe Iron				
K Potassium				
Mg Magnesium				
Mn Manganese				
Mo Molybdenum				
Na Sodium	<0.10	90		0.8
Ni Nickel	<0.01	112	114	0.0
P Phosphorus				
Pb Lead	<0.10	108	99	0.2
Se Selenium	<0.10	105	104	NC
Si Silicon				
Sn Tin				
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	104	110	0.0
Zr Zirconium				
Bi Bismuth				

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)

Data for Semivolatile QC Data (MS) (continued):

Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address 1245 KINGS RD
SCHENECTADY NY 12303

Project: RGE WESTSTATION
Report To: KEVIN HYLTON, MIKE LOUCY
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: 518) 370-5631
Fax #: 518) 370 5861

Client Sample - Information - Identification

Sampler's Signature: X _____ Date: 12-1-95

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS	TCLP ORGANICS, SPECIFIC LIST-DCE	VOA VIALS PL GL HNO3	PL GL NaOH	PL GL AS	GL + H2SO4	Field Filtered + HNO3	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE120195-545-P8	SOIL	12/1	16:00	X			2					85150 85151 GC

Item #	Relinquished By:	Accepted by:	Date:	Time:
1	_____	Q.O.R.M.D	12/4	11:45

Comments:
48 HR TAT.
PLEASE FAX RESULTS TO
KEVIN HYLTON

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

4974970276

5116N 4974970276

1380-1739-4 12-2-95

BRIAN CAREY 716-634-1291 1AB 203 645-1102

GROUNDWATER TECHNOLOGY

60 HOLTZ DR

CHEEKTOWAGA NY 14225

PHEONIX ENVIRONMENTAL

587 EAST MIDDLE TURNPIKE

MANCHESTER CT 06040

01110-0268

X X 1 7

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REVISION DATE 4/94

160

X

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
Route To:_____

DEC 2 0 1995

Proj:_____
File Code:_____

December 13, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA84934 To AA84938

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

December 13, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	11/30/95	15:00
Location Code:	GRNDTECH	Received by:	SW	12/01/95	09:30
Project Code:		Validated by:	BP	12/06/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG&E W STATION RGE113095-542P7 Phoenix I.D.: **AA84934**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			12/04/95	B/E	EPA 1311
TCLP Extraction Metals	Completed			12/04/95	B/R	EPA 1311
TCLP Arsenic	0.02	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Barium	0.59	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	12/04/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Lead	0.080	0.015	mg/L	12/04/95	EK	E1311/SW6010
TCLP Selenium	0.05	0.02	mg/L	12/04/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			12/04/95	ES	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	12/04/95	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			12/04/95	JM	EPA 1311
******* TCLP Volatiles *******						
Benzene	33	1.0	ug/L	12/04/95	HC	SW 8020
Methyl ethyl ketone	BDL	1.0	ug/L	12/04/95	HC	SW 8020
******* TCLP Semivolatiles *******		0				
2-Methylphenol (o-Cresol)	ND	100.0	ug/L	12/04/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	ND	100.0	ug/L	12/04/95	CAS	SW 8270
2-4-Dinitrotoluene	ND	100.0	ug/L	12/04/95	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	12/04/95	CAS	SW 8270
Pyridine	ND	100.0	ug/L	12/04/95	CAS	SW 8270

 Client ID: RG&E W STATION RGE113095-542P7 Phoenix I.D.: **AA84934**

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
December 13, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

December 13, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	11/30/95	15:00
Location Code:	GRNDTECH	Received by:	SW	12/01/95	09:30
Project Code:		Validated by:	BP	12/08/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Client ID: RG&E W STN RGE113095-542P7 DUP Phoenix I.D.: **AA84935**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			12/04/95	B/E	EPA 1311
TCLP Extraction Metals	Completed			12/04/95	B/R	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Barium	0.24	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	12/04/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Lead	0.034	0.015	mg/L	12/04/95	EK	E1311/SW6010
TCLP Selenium	BDL	0.02	mg/L	12/04/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	12/04/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			12/04/95	ES	EPA 1311
TCLP Mercury	BDL	0.001	mg/L	12/04/95	RS	E1311/E245.1
TCLP Extraction Semi-Vol	Completed			12/05/95	PL	EPA 1311
******* TCLP Volatiles *******						
Benzene	21	1.0	ug/L	12/06/95	HC	SW 8020
Methyl ethyl ketone	7	1.0	ug/L	12/06/95	HC	SW 8020
******* TCLP Semivolatiles *******						
2-Methylphenol (o-Cresol)	ND	10.0	ug/L	12/06/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	150	10.0	ug/L	12/06/95	CAS	SW 8270
2-4-Dinitrotoluene	110	10.0	ug/L	12/06/95	CAS	SW 8270
Nitrobenzene	ND	10.0	ug/L	12/06/95	CAS	SW 8270
Pyridine	ND	10.0	ug/L	12/06/95	CAS	SW 8270

 Client ID: RG&E W STN RGE113095-542P7 DUP Phoenix I.D.: AA84935

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
December 13, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

December 13, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	11/30/95	15:00
Location Code:	GRNDTECH	Received by:	SW	12/01/95	09:30
Project Code:		Validated by:	BP	12/06/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STN RGE113095-541P7** Phoenix I.D.: **AA84936**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	38	1.0	ug/L	12/06/95	HC	SW 8020
TCLP Extraction Volatiles.	Completed			12/05/95	BA	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
December 13, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

December 13, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	11/30/95	15:00
Location Code:	GRNDTECH	Received by:	SW	12/01/95	09:30
Project Code:		Validated by:	BP	12/06/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of 1 **Client ID: RG&E W STN RGE113095-541P7 DUP** Phoenix I.D.: **AA84937**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Benzene	60	1.0	ug/L	12/06/95	HC	SW 8020
TCLP Extraction Volatiles.	Completed			12/04/95	B/E	EPA 1311

Comments

ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
December 13, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

December 13, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA84938 Location code: GRNDTECH
Location Description: RG&E W STN QC84934-37
Sample collector: BC
Sample collection date: 11/30/95 Time: 15:00
Lab submittal date: 12/01/95 Time: 09:30
MATRIX: SOLID

Parameter	Result	Units	MDL
AA Metals Analysis QC	see below	---	---
ICP Metals Analysis QC	see below	---	---
Volatile (GC) Analysis QC	see below	---	---
Semivolatile QC Data (MS)	see below	---	---

Data for AA Metals Analysis QC:

QC Source: ERA 9965 NY 2711-12 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.01	104	101	0.0
Hg Mercury	<0.005	100	115	0.0
Pb Lead	<0.005	91	105	0.0
Sb Antimony	<0.005	93	92	0.0
Se Selenium	<0.005	87	79	0.0
Tl Thallium	<0.005	91	87	0.0
Ag Silver	<0.05	101	103	0.0
Au Gold	<0.05	99	100	0.0

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	109	103	0.0

Data for ICP Metals Analysis QC (continued):

Al	Aluminum				
As	Arsenic	<0.01	112	88	0.8
B	Boron				
Ba	Barium	<0.01	107	97	1.4
Be	Beryllium				
Ca	Calcium				
Cd	Cadmium	<0.01	109	102	3.0
Co	Cobalt				
Cr	Chromium	<0.01	105	114	0.7
Cu	Copper				
Fe	Iron				
K	Potassium				
Mg	Magnesium				
Mn	Manganese				
Mo	Molybdenum				
Na	Sodium				
Ni	Nickel				
P	Phosphorus				
Pb	Lead	<0.10	111	95	2.3
Se	Selenium	<0.10	97	119	0.0
Si	Silicon				
Sn	Tin				
Sr	Strontium				
V	Vanadium				
Ti	Titanium				
Zn	Zinc				
Zr	Zirconium				
Bi	Bismuth				

Data for Volatile (GC) Analysis QC:

Sample Spike	40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene		ND	99%	95%	4%
Chlorobenzene		ND	98%	100%	2%
1,1-Dichloroethylene		ND	89%	91%	2%
Toluene		ND	95%	94%	1%
Trichloroethylene		ND	89%	83%	7%

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)

Data for Semivolatile QC Data (MS) (continued):

Acenaphthene	75%	64%	16%
4-Chloro-3-methylphenol	66%	59%	11%
2-Chlorophenol	56%	56%	0.0%
1,4-Dichlorobenzene	20%	-----	-----
2,4-Dinitrotoluene	-----	-----	-----
N-Nitroso-di-n-propylamin	75%	75%	0.0%
Pentachlorophenol	64%	36%	56%
Phenol	60%	57%	5.1%
Pyrene	77%	75%	2.6%
1,2,4-Trichlorobenzene	39%	38%	2.5%
4-Nitrophenol	71%	61%	15%

No target analytes were detected to the stated detection limits in the applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 1245 KINGS RD
SCHENECTADY NY 12303

Project: RG&E WEST STATION
Report To: MIKE LOUCY, KEVIN HYLTON
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: 518 370-5631
Fax #: 518370-5814

Client Sample Information - Identification

Sampler's Signature: x _____ Date: 11/30/95

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	TCLP METALS	TCLP ORGANICS (SPECIAL LIST - REG)	TCLP BENZENE + TCLP VOA	VOA VIALS (PL/GL) HNO3	(PL/GL) + NaOH	(PL/GL) AS (GL) + H2SO4	Field Filtered + HNO3	Bacteria Bottle	PHOENIX SAMPLE #
1	RGE113095-S42-P7	SOIL	11/30	15:00	X	X				2			84934
2	RGE113095-S42-P7 DUP	SOIL	11/30	15:00	X	X				2			84935
3	RGE113095-S41-P7	SOIL	11/30	15:00			X			1			84936
4	RGE113095-S41-P7 DUP	SOIL	11/30	15:00			X			1			84937
													84938 VOC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1,2,3,4	_____	_____	12/1	9:30

Comments:
48 HR TAT ON ITEM #1 (RGE113095-S42-P7) SAMPLE ONLY.

ALL OTHERS STANDARD TAT

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

November 9, 1995

RECEIVED
Route To: Mike
NOV 16 1995
Proj:
File Code:

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA82026 & AA82027

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 10, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		11/06/95	17:30
Location Code:	GRNDTECH	Received by:	AR	11/07/95	12:06
Project Code:	RUSH	Validated by:			
P.O. #:		Analyzed by:	see below		

Laboratory Data

Client ID: **RG&E W STTION RGE110695-518-P3** Phoenix I.D.: **AA82026**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			11/08/95	BA	EPA 1311
TCLP Extraction Semi-Vol	Completed			11/09/95		EPA 1311
TCLP Extraction Metals	Completed			11/09/95	PL	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	11/09/95	EK	E1311/SW6010
TCLP Barium	0.25	0.01	mg/L	11/09/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	11/09/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	11/09/95	EK	E1311/SW6010
TCLP Lead	0.030	0.015	mg/L	11/09/95	EK	E1311/SW6010
TCLP Mercury	BDL	0.002	mg/L	11/09/95	RS	E1311/SW7470
TCLP Selenium	BDL	0.02	mg/L	11/09/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	11/09/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			11/09/95	E/R	EPA 1311
******* TCLP Volatiles *******						
Benzene	ND	50	ug/L	11/08/95	JW	SW 8240
Carbon tetrachloride	ND	50	ug/L	11/08/95	JW	SW 8240
Chlorobenzene	ND	50	ug/L	11/08/95	JW	SW 8240
Chloroform	ND	50	ug/L	11/08/95	JW	SW 8240
1,2-Dichloroethane	ND	50	ug/L	11/08/95	JW	SW 8240
1,1-Dichloroethylene	ND	50	ug/L	11/08/95	JW	SW 8240
Methyl ethyl ketone	ND	50	ug/L	11/08/95	JW	SW 8240
Tetrachloroethylene	ND	50	ug/L	11/08/95	JW	SW 8240
Trichloroethylene	ND	50	ug/L	11/08/95	JW	SW 8240
Vinyl chloride	ND	50	ug/L	11/08/95	JW	SW 8240

Continued next page . . .

Client ID: RG&E W STTION RGE110695-518-P3 **Phoenix I.D.:** AA82026

Parameter	Result	MDL	Units	Date	by	Reference
***** TCLP Acid/Base-Neutral *****	*******	0				
2,4-Dinitrotoluene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Hexachlorobenzene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Hexachloro-1,3-butadiene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Hexachloroethane	ND	100.0	ug/L	11/09/95	CAS	SW 8270
2-Methylphenol (o-Cresol)	330	100.0	ug/L	11/09/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	350	100.0	ug/L	11/09/95	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Pentachlorophenol	ND	500.0	ug/L	11/09/95	CAS	SW 8270
Pyridine	ND	100.0	ug/L	11/09/95	CAS	SW 8270
2,4,5-Trichlorophenol	ND	100.0	ug/L	11/09/95	CAS	SW 8270
2,4,6-Trichlorophenol	ND	100.0	ug/L	11/09/95	CAS	SW 8270
1,4-Dichlorobenzene	ND	100.0	ug/L	11/09/95	CAS	SW 8270

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

ND

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 10, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

November 9, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA82027 Location code: GRNDTECH
Purchase order number: 82026QC Project account code: RUSH
Location Description: RG&E W STTION QC82026
Sample collection date: 11/06/95 Time: 17:30
Lab submittal date: 11/07/95 Time: 12:06
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
Volatiles (MS) Analysis QC	see below	---	---
Semivolatile QC Data (MS)			

Data for Volatiles (MS) Analysis QC:

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	96%	100%	3%
Chlorobenzene	97%	101%	4%
1,1-Dichloroethylene	108%	112%	3%
Toluene	105%	110%	5%
Trichloroethylene	95%	102%	6%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

Sample comments:

ND

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECHNOLOGY
Address: 1245 KINGS RD
SCHENECTADY, NY 12303

Project: RG&E WEST STATION
Report To: MIKE LOUCY/KEVIN HYCTON
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: (518) 370-5631
Fax #: (518) 370-5864

Client Sample - Information - Identification					Analysis Requested																						
Sampler's Signature: X	Date				TCLP VOLATILES	TCLP SEMI VOLATILES	TCLP 8										VOA VIALS PL( ) GL( ) HNO_3 ( )	PL( ) GL( ) * $NaOH$ ( )	PL( ) GL(X) AS ( )	GL + H_2SO_4 ( )	Field * HNO_3 ( ) Filtered	Bacteria Bottle	) ML	) ML	) ML	) ML	) ML	PHOENIX SAMPLE #
Item #	Customers Sample Ident	Sample Matrix	Date	Time																							
1	RGE110695-S18-P3	SOIL	11/6	17:30	X	X	X												1								82026
																											82027QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	[signature] White	11/7/95	12:06

Comments:
PLEASE FAX RESULTS TO
KEVIN HYCTON
(716) 724-8683

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 ___2 ___3 ___4 ___5 working days.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

November 9, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA81846 To AA81848

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 9, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	11/03/95	17:00
Location Code:	GRNDTECH	Received by:	AR	11/06/95	10:45
Project Code:	RUSH	Validated by:			
P.O. #:		Analyzed by:	see below		

Laboratory Data

Client ID: RG&E W STATION 110395-S12-P2 Phoenix I.D.: **AA81846**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			11/07/95	BA	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	11/08/95	EK	E1311/SW6010
TCLP Barium	0.21	0.01	mg/L	11/08/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	11/08/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	11/08/95	EK	E1311/SW6010
TCLP Lead	0.047	0.015	mg/L	11/08/95	EK	E1311/SW6010
TCLP Mercury	BDL	0.002	mg/L	11/08/95	RS	E1311/SW7470
TCLP Selenium	BDL	0.02	mg/L	11/08/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	11/08/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			11/07/95	R/E	EPA 1311
TCLP Extraction Semi-Vol	Completed			11/08/95		EPA 1311
TCLP Extraction Volatiles.	Completed			11/07/95	BA	EPA 1311
******* TCLP Acid/Base-Neutral *******		0				
2,4-Dinitrotoluene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Hexachlorobenzene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Hexachloro-1,3-butadiene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Hexachloroethane	ND	100.0	ug/L	11/09/95	CAS	SW 8270
2-Methylphenol (o-Cresol)	160	100.0	ug/L	11/09/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	160	100.0	ug/L	11/09/95	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	11/09/95	CAS	SW 8270
Pentachlorophenol	ND	500.0	ug/L	11/09/95	CAS	SW 8270
Pyridine	ND	100.0	ug/L	11/09/95	CAS	SW 8270
2,4,5-Trichlorophenol	ND	100.0	ug/L	11/09/95	CAS	SW 8270
2,4,6-Trichlorophenol	ND	100.0	ug/L	11/09/95	CAS	SW 8270
1,4-Dichlorobenzene	ND	100.0	ug/L	11/09/95	CAS	SW 8270

Continued next page . . .

Client ID: RG&E W STATION 110395-S12-P2

Phoenix I.D.: **AA81846**

Parameter	Result	MDL	Units	Date	by	Reference
******* TCLP Volatiles *******						
Benzene	ND	50	ug/L	11/07/95	JW	SW 8240
Carbon tetrachloride	ND	50	ug/L	11/07/95	JW	SW 8240
Chlorobenzene	ND	50	ug/L	11/07/95	JW	SW 8240
Chloroform	ND	50	ug/L	11/07/95	JW	SW 8240
1,2-Dichloroethane	ND	50	ug/L	11/07/95	JW	SW 8240
1,1-Dichloroethylene	ND	50	ug/L	11/07/95	JW	SW 8240
Methyl ethyl ketone	ND	50	ug/L	11/07/95	JW	SW 8240
Tetrachloroethylene	ND	50	ug/L	11/07/95	JW	SW 8240
Trichloroethylene	ND	50	ug/L	11/07/95	JW	SW 8240
Vinyl chloride	ND	50	ug/L	11/07/95	JW	SW 8240

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

ND

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 9, 1995

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 9, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BRIAN CAREY	11/03/95	17:00
Location Code:	GRNDTECH	Received by:	AR	11/06/95	10:45
Project Code:		Validated by:			
P.O. #:		Analyzed by:	see below		

Laboratory Data

Page 1 of **2** **Client ID: RG&E W STATION 110395-S11-P2** Phoenix I.D.: **AA81847**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Volatiles.	Completed			11/07/95	BA	EPA 1311
TCLP Benzene	31	1.0	ug/L	11/08/95	HC	SW 8020

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit
ND

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 9, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

November 9, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA81848 Location code: GRNDTECH
Purchase order number: 81847QC Project account code: AA81846-
Location Description: RG&E W STATION QC81846-47
Sample collector: BRIAN CAREY
Sample collection date: 11/03/95 Time: 17:00
Lab submittal date: 11/06/95 Time: 10:45
MATRIX: SOLID

Parameter	**Result**	**Units**	**MDL**
AA Metals Analysis QC			
ICP Metals Analysis QC	see below	---	---
Volatiles (MS) Analysis QC			
Semivolatile QC Data (MS)			
Volatile (GC) Analysis QC	see below	---	---

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	85	123	NC
Al Aluminum	<0.01	86	105	0.0
As Arsenic	<0.01	94	98	6.7
B Boron				
Ba Barium	<0.01	109	105	0.9
Be Beryllium				
Ca Calcium				
Cd Cadmium	<0.01	113	108	1.7
Co Cobalt				
Cr Chromium	<0.01	106	103	1.2
Cu Copper	<0.01	87	104	0.0
Fe Iron	<0.01	102	108	17.4
K Potassium				
Mg Magnesium				
Mn Manganese	<0.01	102	105	1.5
Mo Molybdenum				

Data for ICP Metals Analysis QC (continued):

Na Sodium	<0.10	92	100	1.1
Ni Nickel	<0.01	92	107	3.6
P Phosphorus				
Pb Lead	<0.01	108	105	0.6
Se Selenium	<0.02	83	81	NC
Si Silicon				
Sn Tin	<0.10	88	111	0.0
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	93	95	0.0
Zr Zirconium				
Bi Bismuth				

Data for Volatile (GC) Analysis QC:

Sample Spike 40	QC BLANK ppb	QC Sample Matrix Spike Rec	QC Sample Matrix Dup Spike Rec	QC Spike RPD
Benzene	ND	103%	100%	3%
Chlorobenzene	ND	104%	105%	1%
1,1-Dichloroethylene	ND	96%	99%	3%
Toluene	ND	106%	105%	1%
Trichloroethylene	ND	105%	104%	1%

Sample comments:

ND

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418; Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH
Address: 1245 KINGS RD
SCHENECTADY NY 12303

Project: RG&E WEST STATION
Report To: MIKE LOUCY
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: 518 370-5631
Fax #: 518 370-5864

Client Sample - Information - Identification

Sampler's Signature: X Brian Casey Date: 11/3/95

Item #	Customers Sample Ident	Sample Matrix	Date	Time	FULL TCLP METALS PEST/HERB TCLP BENZENE	VOA VIALS	PL( ) HNO3 ( ) GL( )	PL( ) NaOH ( ) GL( )	PL( ) AS ( ) GL + H2SO4 ( )	Field Filtered + HNO3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
RGE	110395-S12-P2	SOIL	11/3	17:00	X							818416
RGE	110395-S11-P2	SOIL	11/3	17:00	X							818417
												818418QC

Analysis Requested

Item #	Relinquished by:	Accepted by:	Date:	Time:
	Brian Casey	[illegible]	11/6/95	10:45

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 X 2 ___3 ___4 ___5 working days.

Comments:

PLEASE FAX RESULTS TO
KEVIN HYLTON (716) 724-8683
ONLY 48 HR TAT ON S12
S11 SAMPLE - STANDARD TAT

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

RECEIVED
Route To:_____
NOV 09 1995
Proj:_____
File Code:_____

November 4, 1995

Groundwater Technology
1245 Kings Rd.
Schenectady, NY 12303

Attn Mr. Mike Loucy

Sample I.D.# AA81375 To AA81376

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality Control in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

John M. Schreiber

John M. Schreiber
Laboratory Director

CT Lab. Registration #PH-0618
MA Lab. Registration #CT-007
NY Lab. Registration #11301
RI Lab. Registration #63
NH Lab. Registration #213693-A,B
ME Lab. Registration #CT007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

Analysis Report

November 3, 1995

FOR: **Attn: Mr. Mike Loucy**
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

Sample Information		Custody Information		Date	Time
Matrix:	solid	Collected by:		10/30/95	16:30
Location Code:	GRNDTECH	Received by:	LC	10/31/95	12:00
Project Code:		Validated by:	BP	11/03/95	
P.O. #:		Analyzed by:	see below		

Laboratory Data

 Client ID: RG& E WEST STATION RGE103095S6 Phoenix I.D.: **AA81375**

Parameter	Result	MDL	Units	Date	by	Reference
TCLP Extraction Metals	Completed			11/01/95	B/R	EPA 1311
TCLP Arsenic	BDL	0.01	mg/L	11/02/95	EK	E1311/SW6010
TCLP Barium	0.25	0.01	mg/L	11/02/95	EK	E1311/SW6010
TCLP Cadmium	BDL	0.005	mg/L	11/02/95	EK	E1311/SW6010
TCLP Chromium	BDL	0.01	mg/L	11/02/95	EK	E1311/SW6010
TCLP Lead	0.069	0.015	mg/L	11/02/95	EK	E1311/SW6010
TCLP Mercury	BDL	0.002	mg/L	11/01/95	RS	E1311/SW7470
TCLP Selenium	BDL	0.02	mg/L	11/02/95	EK	E1311/SW6010
TCLP Silver	BDL	0.01	mg/L	11/02/95	EK	E1311/SW6010
TCLP Digestion Mercury	Completed			11/01/95	RP	EPA 1311
TCLP Extraction Semi-Vol	Completed			11/02/95		EPA 1311
TCLP Extraction Volatiles.	Completed			11/01/95	BA	EPA 1311
******* TCLP Acid/Base-Neutral	*******	0				
2,4-Dinitrotoluene	ND	100.0	ug/L	11/03/95	CAS	SW 8270
Hexachlorobenzene	ND	100.0	ug/L	11/03/95	CAS	SW 8270
Hexachloro-1,3-butadiene	ND	100.0	ug/L	11/03/95	CAS	SW 8270
Hexachloroethane	ND	100.0	ug/L	11/03/95	CAS	SW 8270
2-Methylphenol (o-Cresol)	ND	100.0	ug/L	11/03/95	CAS	SW 8270
3 & 4-Methylphenol (m & p-Cresol)	460	100.0	ug/L	11/03/95	CAS	SW 8270
Nitrobenzene	ND	100.0	ug/L	11/03/95	CAS	SW 8270
Pentachlorophenol	ND	500.0	ug/L	11/03/95	CAS	SW 8270
Pyridine	ND	100.0	ug/L	11/03/95	CAS	SW 8270
2,4,5-Trichlorophenol	ND	100.0	ug/L	11/03/95	CAS	SW 8270
2,4,6-Trichlorophenol	ND	100.0	ug/L	11/03/95	CAS	SW 8270
1,4-Dichlorobenzene	ND	100.0	ug/L	11/03/95	CAS	SW 8270

Continued next page . . .

Client ID: RG& E WEST STATION RGE103095S6

Phoenix I.D.: **AA81375**

Parameter	Result	MDL	Units	Date	by	Reference
****** TCLP Volatiles ******						
Benzene	ND	50	ug/L	11/01/95	AM	SW 8240
Carbon tetrachloride	ND	50	ug/L	11/01/95	AM	SW 8240
Chlorobenzene	ND	50	ug/L	11/01/95	AM	SW 8240
Chloroform	ND	50	ug/L	11/01/95	AM	SW 8240
1,2-Dichloroethane	ND	50	ug/L	11/01/95	AM	SW 8240
1,1-Dichloroethylene	ND	50	ug/L	11/01/95	AM	SW 8240
Methyl ethyl ketone	1900	50	ug/L	11/01/95	AM	SW 8240
Tetrachloroethylene	ND	50	ug/L	11/01/95	AM	SW 8240
Trichloroethylene	ND	50	ug/L	11/01/95	AM	SW 8240
Vinyl chloride	ND	50	ug/L	11/01/95	AM	SW 8240

Comments ND = Not detected MDL = Minimum Detectable Level BDL = Below Detection Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

John M. Schreiber

John M. Schreiber, Laboratory Director
November 3, 1995

From: Phoenix Environmental Laboratories Inc.
587 E. Middle Turnpike, Box 418
Manchester, Ct. 06045-0418
(203) 645-1102 Fax 645-0823

November 3, 1995

To: Attn: Mr. Mike Loucy
Groundwater Technology
1245 Kings Road
Schenectady, NY 12303

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA81376 Location code: GRNDTECH
Location Description: RG& E WEST STATION QC81375
Sample collection date: 10/30/95 Time: 16:30
Lab submittal date: 10/31/95 Time: 12:00
MATRIX: solid
Received by: LC Validated by: BP

Parameter: ICP Metals Analysis QC
Method reference: Unit:
Result: see below
Date started: 11/02/95 Date finished: 11/02/95
Time started: 15:18 Analyst: EK

Parameter: Volatiles (MS) Analysis QC
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 11/02/95 Date finished: 11/02/95
Time started: 17:13 Analyst: AM

Parameter: Semivolatile QC Data (MS)
Method reference: Phoenix QAQC Unit:
Result: see below
Date started: 11/03/95 Date finished: 11/03/95
Time started: Analyst: CS

Data for ICP Metals Analysis QC:

QC Source: ERA 9965 APG 15273/74 ERA 9960 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	.<0.01 .	. 106 .	. 109 .	. 0.0
Al Aluminum				
As Arsenic	.<0.01 .	. 110 .	. 106 .	. NC
B Boron				
Ba Barium	<0.01	100	98	1.1
Be Beryllium	0.01	102	102	0.0

Data for ICP Metals Analysis QC (continued):

Ca Calcium				
Cd Cadmium	<0.01	101	105	0.0
Co Cobalt				
Cr Chromium	<0.01	99	101	0.0
Cu Copper	<0.01	86	93	0.0
Fe Iron	<0.01	102	97	0.4
K Potassium				
Mg Magnesium				
Mn Manganese	<0.01	96	103	0.2
Mo Molybdenum				
Na Sodium	<0.1	93	82	0.1
Ni Nickel	<0.01	100	109	0.0
P Phosphorus				
Pb Lead	<0.01	98	111	4.5
Se Selenium	<0.02	102	103	NC
Si Silicon				
Sn Tin				
Sr Strontium				
V Vanadium				
Ti Titanium				
Zn Zinc	<0.01	104	100	1.0
Zr Zirconium				
Bi Bismuth				

Data for Volatiles (MS) Analysis QC:

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	111	104	7
Chlorobenzene	112	110	2
1,1-Dichloroethylene	94	92	2
Toluene	112	112	0
Trichloroethylene	95	92	3

No analytes were detected in the applicable method blanks above the state detection limits with the following exceptions:

(NONE)

Data for Semivolatile QC Data (MS):

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative % Diff. (% D)

Data for Semivolatile QC Data (MS) (continued):

Acenaphthene	110%	35.4%	103%
4-Chloro-3-methylphenol	57.0%	-----	-----
2-Chlorophenol	80.2%	21.2%	116%
1,4-Dichlorobenzene	119%	40.8%	109%
2,4-Dinitrotoluene	87.6%	16.7%	136%
N-Nitroso-di-n-propylamin	84.8%	20.3%	123%
Pentachlorophenol	-----	-----	-----
Phenol	78.5%	-----	-----
Pyrene	75.5%	79.6%	0.53%
1,2,4-Trichlorobenzene	82.7%	17.6%	130%
4-Nitrophenol	-----	2.4%	-----

No target analytes were detected to the stated detection limits in t applicable method blanks with the following exceptions:

NONE

If there are any questions regarding this data, please call.

John M. Schreiber

John M. Schreiber
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (203) 645-1102 Fax (203) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: GROUNDWATER TECH
Address: 1245 KINGS RD
SCHENECTADY NY 12303

Project: RG&E WEST STATION
Report To: MIKE LOUCY
Invoice To: MIKE LOUCY

Project P.O. _____
Phone #: 518 370-5631
Fax #: 518 370-5864

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10/30/95

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	FULL TCLP minus pesticides	VOA VIALS PL( ) HNO_3 ( ) GL( ) HNO_3 ( )	PL( ) + $NaOH$ ( ) GL( ) + $NaOH$ ( )	PL( ) As ( ) GL( ) Se ( )	GL + H_2SO_4 ( )	Field Filtered + HNO_3 ( )	Bacteria Bottle	PHOENIX SAMPLE #
(RGE	10309556)	SOIL	10/30	16:30	X							81375 81376 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
	[signature]	[signature]	10/31/95	10:00

Comments: FAX RESULTS AS SOON AS POSSIBLE TO:

KEVIN HYLTON
RG+E
(716) 724-8683

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: ___1 _X_2 ___3 ___4 ___5 working days.

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95110800004

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 11/03/1995
Remarks: SAMPLE RGE110395 S12-P2

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.89
	Coal Air Dry Loss	%	11.60
	Coal Ash	%	N.M.
	Coal BTU	Btu/lb	2249
	Coal Sulfur	%	0.29
	Coal Total Moisture	%	12.4

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95110800085

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 11/06/1995
Remarks: SAMPLE RGE110695 S18 P3

Analyst: ----- --------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.81
	Coal Air Dry Loss	%	10.30
	Coal Ash	%	N.M.
	Coal BTU	Btu/lb	1971
	Coal Sulfur	%	0.27
	Coal Total Moisture	%	11.0

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95110900023

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STA
Department: ENV SCIENCE
Sample Date: 11/09/1995
Remarks: SAMPLE RGE110995-S24-P4

Analyst: ------ ----------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.68
	Coal Air Dry Loss	%	10.30
	Coal BTU	Btu/lb	1917
	Coal Sulfur	%	0.25
	Coal Total Moisture	%	10.9

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 951115000008

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 11/14/1995
Remarks: SAMPLE RGE-111495-S30-P5

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.71
	Coal Air Dry Loss	%	12.30
	Coal BTU	Btu/lb	1753
	Coal Sulfur	%	0.23
	Coal Total Moisture	%	12.9

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95112900001

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 11/27/1995
Remarks: SAMPLE RGE112195-S36-P6

Analyst: _____ _____

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	8.71
	Coal Air Dry Loss	%	12.00
	Coal BTU	Btu/lb	1833
	Coal Sulfur	%	1.07
	Coal Total Moisture	%	12.6

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95120100006

Sample Type: ANAL MISCELLANEOUS
Sample Location: BB STATION
Department: BB STATION
Sample Date: 11/30/1995
Remarks: SAMPLE RGE113095-S42-P7

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.76
	Coal Air Dry Loss	%	11.90
	Coal BTU	Btu/lb	1870
	Coal Sulfur	%	0.27
	Coal Total Moisture	%	12.6

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95120100007

Sample Type: ANAL MISCELLANEOUS
Sample Location: BB STATION
Department: BB STATION
Sample Date: 11/21/1995
Remarks: SAMPLE RGE112195-S36-P6

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.68
	Coal Air Dry Loss	%	11.60
	Coal BTU	Btu/lb	1889
	Coal Sulfur	%	0.27
	Coal Total Moisture	%	12.2

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 95123400017

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 11/30/1995
Remarks: RGE113095-S42-P7 DUP

Analyst: ------ ---------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.72
	Coal Air Dry Loss	%	12.30
	Coal BTU	Btu/lb	1642
	Coal Sulfur	%	0.25
	Coal Total Moisture	%	12.9

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960212000018

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STA
Department: ENV SCIENCE
Sample Date: 02/09/1996
Remarks: RGE020996-M7

Analyst: ------ --------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	2.23
	Coal Air Dry Loss	%	32.00
	Coal BTU	Btu/lb	6866
	Coal Sulfur	%	0.61
	Coal Total Moisture	%	33.5

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960222000005

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 02/16/1996
Remarks: RGE021696-M13

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	2.18
	Coal Air Dry Loss	%	31.30
	Coal BTU	Btu/lb	5919
	#S/MBTU	#S/MBTU	0.90
	Coal Sulfur	%	0.53
	Coal Total Moisture	%	32.8

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960223000020

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 02/22/1996
Remarks: RGE022296-M16

Analyst: _____ _____

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	2.47
	Coal Air Dry Loss	%	34.70
	Coal BTU	Btu/lb	6833
	#S/MBTU	#S/MBTU	0.85
	Coal Sulfur	%	0.58
	Coal Total Moisture	%	36.3

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960301000001

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STA
Department: ENV SCIENCE
Sample Date: 02/29/1996
Remarks: RGE022996 M19 P20 P21

Analyst: ----- ---------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	2.03
	Coal Air Dry Loss	%	30.90
	Coal BTU	Btu/lb	5105
	#S/MBTU	#S/MBTU	1.00
	Coal Sulfur	%	0.51
	Coal Total Moisture	%	32.3

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960313000017

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STA
Department: ENV SCIENCE
Sample Date: 03/07/1996
Remarks: RGE030796-M21-P22 FINAL BLENDED PRODUCT

Analyst: ------ ---------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.57
	Coal Air Dry Loss	%	27.10
	Coal BTU	Btu/lb	4946
	#S/MBTU	#S/MBTU	0.88
	Coal Sulfur	%	0.44
	Coal Total Moisture	%	28.2

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960319000001

Sample Type: COAL/NR
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 03/14/1996
Remarks: RGE031496-M23-P23

Analyst: ------ --------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.66
	Coal Air Dry Loss	%	26.10
	Coal BTU	Btu/lb	6415
	#S/MBTU	#S/MBTU	0.79
	Coal Sulfur	%	0.51
	Coal Total Moisture	%	27.3

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 96040300012

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STA
Department: ENV SCIENCE
Sample Date: 04/01/1996
Remarks: RGE040196-M29-P24P25P26P27 FINAL BLENDED PRODUCT

Analyst: ------ ----------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.67
	Coal Air Dry Loss	%	4.30
	Coal BTU	Btu/lb	7400
	#S/MBTU	#S/MBTU	0.70
	Coal Sulfur	%	0.51
	Coal Total Moisture	%	5.9

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 96041600029

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 04/11/1996
Remarks: RGE041196-M34P28P29P30 FINAL BLENDED PRODUCT

Analyst: _____ _____

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.38
	Coal Air Dry Loss	%	19.80
	Coal BTU	Btu/lb	8089
	#S/MBTU	#S/MBTU	0.74
	Coal Sulfur	%	0.59
	Coal Total Moisture	%	20.9

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 96042600002

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 04/22/1996
Remarks: RGE042296-M40-P31P32P33 FINAL BLENDED PRODUCT

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.36
	Coal Air Dry Loss	%	19.70
	Coal BTU	Btu/lb	7502
	#S/MBTU	#S/MBTU	0.77
	Coal Sulfur	%	0.58
	Coal Total Moisture	%	20.8

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 96050200008

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 05/02/1996
Remarks: RGE0502996-M44-P34P35P36 FINAL BLENDED PRODUCT

Analyst: ----- --------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.98
	Coal Air Dry Loss	%	20.10
	Coal BTU	Btu/lb	7775
	#S/MBTU	#S/MBTU	1.19
	Coal Sulfur	%	0.92
	Coal Total Moisture	%	20.9

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 96051400015

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 05/14/1996
Remarks: RGE051496-M48-P37P38P39 FINAL BLENDED PRODUCT

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.28
	Coal Air Dry Loss	%	18.40
	Coal BTU	Btu/lb	7704
	#S/MBTU	#S/MBTU	0.77
	Coal Sulfur	%	0.59
	Coal Total Moisture	%	19.4

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960605000015

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 05/31/1996
Remarks: RGE053196-M53-P40P41P42 FINAL BLENDED PRODUCT

Analyst: ——— ————

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.27
	Coal Air Dry Loss	%	12.70
	Coal BTU	Btu/lb	7668
	#S/MBTU	#S/MBTU	0.79
	Coal Sulfur	%	0.60
	Coal Total Moisture	%	13.8

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/14/1996

Sample id: 960617000001

Sample Type: COAL/NR
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 06/13/1996
Remarks: RGE061396-M57-P43P44P45 FINAL BLENDED PRODUCT

Analyst: ——— ———

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	1.00
	Coal Air Dry Loss	%	12.90
	Coal BTU	Btu/lb	8143
	#S/MBTU	#S/MBTU	0.95
	Coal Sulfur	%	0.77
	Coal Total Moisture	%	13.8

File:
Date:
Initials:

Rochester Gas & Electric
Laboratory Analysis Record
10/17/1996

Sample id: 95103100013

Sample Type: ANAL MISCELLANEOUS
Sample Location: WEST STATION
Department: ENV SCIENCE
Sample Date: 10/30/1995
Remarks: SAMPLE #RGE103095-56

Analyst: ------ ----------

Sample Description	Test Parameter	Units	Test Result
COAL TAR SOIL	Coal 60 Moist	%	0.96
	Coal Air Dry Loss	%	11.00
	Coal Ash	%	N.M.
	Coal BTU	Btu/lb	2247
	Coal Sulfur	%	0.28
	Coal Total Moisture	%	11.9

File:
Date:
Initials:

To BRIAN CARCH

From JANET KELLER

TOTAL P.01

APPENDIX G

1. PHASE III REJECT SAMPLING RESULTS
2. REJECT ANALYTICAL PROTOCOL

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Reject Samples Received 04/08/96, 04/23/96, and 04/30/96 in ppm (mg/kg, as received basis)

Lab ID / Field ID:	RG960408-01 RGE040596-Reject-3	RG960408-01 DUP Laboratory Dupe	RG960423-01 RGE041796-Reject-4
MAHs:			
Benzene	3.24	4.28	22.1
Toluene	4.23	5.16	25.3
Ethylbenzene	0.39	0.44 J	2.36
m/p-Xylene	5.23	5.91	30.4
Styrene	2.54	2.74	12.7
o-Xylene	2.16	2.39	12.4
1,2,4-Trimethylbenzene	9.42	9.43	41.5
Total MAHs:	17.8	20.9 J	105
PAHs:			
Naphthalene	600	637	2,440
2-Methylnaphthalene	189	183	726
1-Methylnaphthalene	92.3	85.9	344
Acenaphthylene	110	100	374
Acenaphthene	21.6	18.6	106
Dibenzofuran	128	112	428
Fluorene	152	130	496
Phenanthrene	415	352	1,310
Anthracene	156	133	529 J
Fluoranthene	259	217	813
Pyrene	183	152	573
Benz(a)anthracene	127	107	379
Chrysene	109	92.3	324
Benzo(b)fluoranthene	59.8	51.2	247
Benzo(k)fluoranthene	77.7	66.1	151
Benzo(a)pyrene	85.5	73.2	262
Indeno(1,2,3-cd)pyrene	38.9	35.0	101
Dibenz(a,h)anthracene	14.0	12.5	31.7
Benzo(g,h,i)perylene	28.0 J	26.7 J	70.3
Total PAHs:	2,720 J	2,470 J	9,280 J
Surrogate #1 %Recovery	108	106	110
Surrogate #2 %Recovery	102	104	101
Percent Solids	Not Applicable	Not Applicable	Not Applicable

U = Not detected at quantitation limit shown

ND = Not detected

C = Coeluted with compound listed above

I = Interference

E = Estimated value, above calibration range

J = Estimated value

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Reject Samples Received 6/11 and 6/20/96, in ppm (mg/kg, as received basis)

Lab ID / Field ID:	RG960620-02 RGE061996-Reject-8	RG960620-02 DUP Laboratory Dupe	RG960611-02 RGE060796-Reject-7
MAHs:			
Benzene	0.35	0.56	0.02
Toluene	0.38	0.66	0.02
Ethylbenzene		0.12 J	0.01 U
m/p-Xylene	0.30	0.79	0.02
Styrene	0.30	0.59	0.02
o-Xylene	0.13	0.36	0.01
1,2,4-Trimethylbenzene	0.69	1.83	0.06
Total MAHs:	1.47	3.08 J	0.08
PAHs:			
Naphthalene	12.5	66.3	3.24
2-Methylnaphthalene	11.0	34.8	1.10
1-Methylnaphthalene	7.36	20.6	0.54
Acenaphthylene	17.1	35.4	0.69
Acenaphthene	3.54	7.18	0.11
Dibenzofuran	12.0	31.9	0.63
Fluorene	19.6	46.4	0.76
Phenanthrene	57.6	136	1.96
Anthracene	20.3	43.5	0.76
Fluoranthene	56.3	110	1.16
Pyrene	48.3	93.6	0.80
Benz(a)anthracene	30.0	57.4	0.59
Chrysene	23.6	45.5	0.47
Benzo(b)fluoranthene	16.1	29.8	0.25
Benzo(k)fluoranthene	19.2	35.1	0.35
Benzo(a)pyrene	21.0	39.7	0.37
Indeno(1,2,3-cd)pyrene	10.5	19.6	0.18
Dibenz(a,h)anthracene	3.46	6.32	0.06
Benzo(g,h,i)perylene	8.52	15.8	0.14
Total PAHs:	385	843	13.5
Surrogate #1 %Recovery	120	127	110
Surrogate #2 %Recovery	103	108	95
Percent Solids	Not Applicable	Not Applicable	Not Applicable

U = Not detected at quantitation limit shown
ND = Not detected
L = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.
I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Reject Samples Received 04/08/96, 04/23/96, and 04/30/96 in ppm (mg/kg, as received basis)

Lab ID / Field ID:	RG960423-01 DUP Laboratory Dupe	RG960430-01 RGE042796-Reject-5	RG960430-01 DUP Laboratory Dupe
MAHs:			
Benzene	11.6	3.90	8.94
Toluene	12.8	4.70	9.47
Ethylbenzene	1.10	0.46	0.85
m/p-Xylene	14.8	5.69	10.0
Styrene	6.41	3.06	5.08
o-Xylene	6.16	2.29	4.06
1,2,4-Trimethylbenzene	22.8	9.75	16.8
Total MAHs:	52.9	20.1	38.4
PAHs:			
Naphthalene	1,300	641	1,010
2-Methylnaphthalene	354	212	318
1-Methylnaphthalene	182	101	163
Acenaphthylene	195	123	182
Acenaphthene	57.1	35.9	53.6
Dibenzofuran	214	133	197
Fluorene	250	155	231
Phenanthrene	728	414	626
Anthracene	241	150	224
Fluoranthene	459	262	392
Pyrene	302	180	275
Benz(a)anthracene	212	130	193
Chrysene	179	109	162
Benzo(b)fluoranthene	107	67.6	79.1
Benzo(k)fluoranthene	116	68.6	114
Benzo(a)pyrene	145	86.6	129
Indeno(1,2,3-cd)pyrene	67.2	42.7	59.9
Dibenz(a,h)anthracene	21.7	14.1	19.6
Benzo(g,h,i)perylene	47.7	34.3	42.6
Total PAHs:	4,960	2,820	4,270
Surrogate #1 %Recovery	110	106	109
Surrogate #2 %Recovery	97	100	96
Percent Solids	Not Applicable	Not Applicable	Not Applicable

U = Not detected at quantitation limit shown

ND = Not detected

C = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Reject Samples Received 5/22 and 5/23/96, in ppm (mg/kg, as received basis)

Lab ID / Field ID:	RG960522-01 RGE051796-Reject-6	RG960522-01DUP Laboratory Dupe	RG960523-01 RGE052296-Reject-2
MAHs:			
Benzene	11.9	1.60	4.36
Toluene	13.3	1.50	6.34
Ethylbenzene	1.45	0.12 J	0.91
m/p-Xylene	19.3	1.10	13.3
Styrene	8.41	1.05	5.48
o-Xylene	7.67	0.42	5.15
1,2,4-Trimethylbenzene	27.4	3.34	24.4
Total MAHs:	62.0	5.78 J	35.5
PAHs:			
Naphthalene	1,840	256	1,330
2-Methylnaphthalene	638	103	424
1-Methylnaphthalene	314	51.1	205
Acenaphthylene	331	74.3	229
Acenaphthene	111	21.4	68.4
Dibenzofuran	409	78.6	255
Fluorene	471	94.7	297
Phenanthrene	1,240	258	771
Anthracene	557 J	121 J	362 J
Fluoranthene	766	166	482
Pyrene	543	117	342
Benz(a)anthracene	402	86.3	248
Chrysene	333	71.4	211
Benzo(b)fluoranthene	192	36.3	110
Benzo(k)fluoranthene	225	52.2	155
Benzo(a)pyrene	258	55.7	166
Indeno(1,2,3-cd)pyrene	127	28.2	81.1
Dibenz(a,h)anthracene	44.5	9.65	28.5
Benzo(g,h,i)perylene	104	23.6	66.1
Total PAHs:	8,490 J	1,620 J	5,570 J
Surrogate #1 %Recovery	93	94	91
Surrogate #2 %Recovery	96	94	100
Percent Solids	Not Applicable	Not Applicable	Not Applicable

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Reject Samples Received 5/22 and 5/23/96, in ppm (mg/kg, as received basis)

Lab ID / Field ID:	RG960523-01DUP Laboratory Dupe	
MAHs:		
Benzene	5.82	
Toluene	9.20	
Ethylbenzene	1.34	
m/p-Xylene	18.2	
Styrene	7.10	
o-Xylene	7.31	
1,2,4-Trimethylbenzene	33.9	
Total MAHs:	49.0	
PAHs:		
Naphthalene	1,770	
2-Methylnaphthalene	619	
1-Methylnaphthalene	304	
Acenaphthylene	369	
Acenaphthene	102	
Dibenzofuran	379	
Fluorene	441	
Phenanthrene	1,150	
Anthracene	553	J
Fluoranthene	712	
Pyrene	507	
Benz(a)anthracene	371	
Chrysene	306	
Benzo(b)fluoranthene	173	
Benzo(k)fluoranthene	215	
Benzo(a)pyrene	243	
Indeno(1,2,3-cd)pyrene	119	
Dibenz(a,h)anthracene	40.7	
Benzo(g,h,i)perylene	98.1	
Total PAHs:	8,100	J
Surrogate #1 %Recovery	93	
Surrogate #2 %Recovery	112	
Percent Solids	Not Applicable	

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02172
TEL: (617) 923-4662
FAX: (617) 923-4610

February 23, 1996

Mr. Kevin Hylton
Rochester Gas & Electric Co.
89 East Avenue
Rochester, NY 14649

RE: Analysis of "Reject" Material from West Station

Dear Kevin:

We received a five gallon bucket of "reject" from the West Station site on February 9, 1996. The material included:

- rocks of various sizes and shapes from less than one inch to approximately six inches in their largest dimension,
- wood chips of various sizes,
- pieces of what appeared to be coke, and
- soil and possible coal fines.

All of the material was coated with a thick, black, tar-like substance, and the wood appeared to be saturated with this substance.

In order to determine the concentrations of MAHs and PAHs in this material on average, duplicate 1 kilogram samples were extracted with methylene chloride in metal paint cans on an oscillating shaker. The original reject material was subsampled by randomly removing material from the bucket with a large stainless steel spoon, attempting to get a range of particle sizes. The sample was prepared in duplicate as an estimate of the subsampling variability. The extraction solvent was collected, diluted to a known volume, and analyzed for MAHs and PAHs using GC/FID. The results are provided in the table attached. The chromatograms show the substance to be tar.

It is important to note that we were unable to completely extract the sample by this method, primarily because the wood chips and coke were so porous that even after three washings with solvent, they appeared to still contain extractable organic substances. Therefore, the results in this report are likely low by perhaps 25 or 30 percent.

If you have any questions regarding these results, or would like to request additional analyses, please do not hesitate to call.

Sincerely,

David M. Mauro

David M. Mauro

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for the RG&E Reject Material Study in ppm (mg/kg)

Lab ID / Field ID:	RG980209-11CL REJECT		RG980209-11DCL REJECT	
MAHs:				
Benzene	8.3		7.4	
Toluene	10		10	
Ethylbenzene	6.0	U	6.0	U
m/p-Xylene	10		8.5	
Styrene	3.2	J	3.5	J
o-Xylene	4.4	J	2.8	J
1,2,4-Trimethylbenzene	14		15	
Total MAHs:	36		30	
PAHs:				
Naphthalene	920		1,000	
2-Methylnaphthalene	270		300	
1-Methylnaphthalene	130		140	
Acenaphthylene	130		150	
Acenaphthene	28		30	
Dibenzofuran	170		190	
Fluorene	210		230	
Phenanthrene	570		640	
Anthracene	180		200	
Fluoranthene	350		390	
Pyrene	240		270	
Benz(a)anthracene	160		190	
Chrysene	140		160	
Benzo(b)fluoranthene	77		87	
Benzo(k)fluoranthene	110		120	
Benzo(a)pyrene	110		130	
Indeno(1,2,3-cd)pyrene	55		63	
Dibenz(a,h)anthracene	19		22	
Benzo(g,h,i)perylene	54		61	
Total PAHs:	3,800		4,200	
Surrogate #1 %Recovery		D		D
Surrogate #2 %Recovery		D		D
Percent Solids	100.0%		100.0%	

U = Not detected at quantitation limit shown

ND = Not detected

C = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

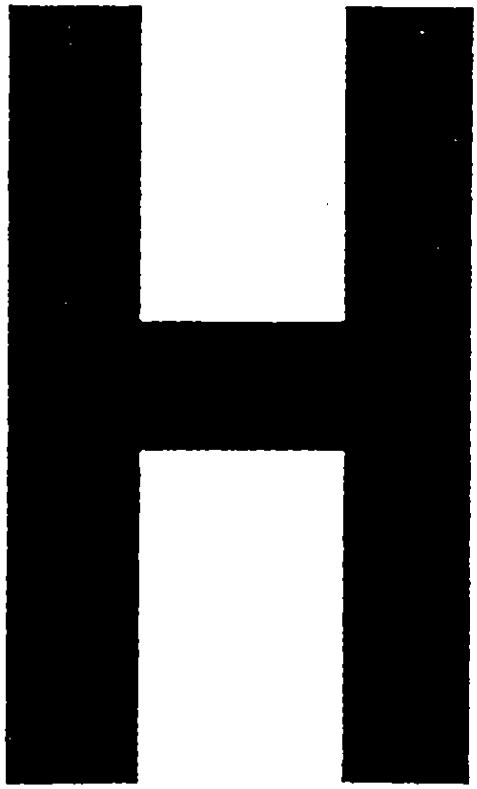
I = Interference

E = Estimated value, above calibration range

J = Estimated value, below calibration range

D = Surrogate not recovered due to dilution

META



APPENDIX H

PHASE III ENDPOINT SAMPLING RESULTS
NYSDEC ENDPOINT SPLIT SAMPLING RESULTS

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for RG&E West Station Phase 3 Samples Received 11/2/95 and 11/7/95, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG951102-04 RGE110195-C1	RG951103-MB Method Blank	RG951102-04DUP Laboratory Dupe
MAHs:			
Benzene	0.26 J	0.19 U	0.17 J
Toluene	0.30	0.19 U	0.22 J
Ethylbenzene	0.29 U	0.19 U	0.23 U
m/p-Xylene	0.29 J	0.19 U	0.18 J
Styrene	0.29 U	0.19 U	0.23 U
o-Xylene	0.19 J	0.19 U	0.18 J
1,2,4-Trimethylbenzene	0.31	0.19 U	0.16 J
Total MAHs:	1.04	ND	0.75
PAHs:			
Naphthalene	1.36	0.19 U	2.14
2-Methylnaphthalene	1.66	0.19 U	2.21
1-Methylnaphthalene	1.18	0.19 U	1.55
Acenaphthylene	3.32	0.19 U	4.41
Acenaphthene	0.86	0.19 U	0.98
Dibenzofuran	1.57	0.19 U	2.68
Fluorene	2.55	0.19 U	4.25
Phenanthrene	12.0	0.19 U	16.3
Anthracene	6.57	0.19 U	22.4
Fluoranthene	20.8	0.19 U	26.9
Pyrene	16.3	0.19 U	20.7
Benz(a)anthracene	13.7	0.19 U	17.2
Chrysene	12.0	0.19 U	17.4
Benzo(b)fluoranthene	8.60	0.19 U	9.75
Benzo(k)fluoranthene	9.79	0.19 U	12.5
Benzo(a)pyrene	11.9	0.19 U	13.8
Indeno(1,2,3-cd)pyrene	6.80	0.19 U	7.34
Dibenz(a,h)anthracene	2.59	0.19 U	2.64
Benzo(g,h,i)perylene	6.62	0.19 U	6.74
Total PAHs:	140	ND	192
Surrogate #1 %Recovery	82	75	78
Surrogate #2 %Recovery	87	83	78

U = Not detected at quantitation limit shown
J = Estimated value
ND = Not detected
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

C = Coeluted with compound listed above
I = Interference
E = Estimated Value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for RG&E West Station Phase 3 Samples Received 11/2/95 and 11/7/95, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG951107-01 RGE110695-C2	RG951107-02 RGE110695-C3	SC951107-MB Method Blank
MAHs:			
Benzene	0.46	0.10 J	0.25 U
Toluene	0.47	0.36	0.07 J
Ethylbenzene	0.16 J	0.17 U	0.25 U
m/p-Xylene	0.60	0.50	0.25 U
Styrene	0.20 U	0.17 U	0.25 U
o-Xylene	0.36	0.31	0.25 U
1,2,4-Trimethylbenzene	0.70	0.50	0.25 U
Total MAHs:	1.95	1.27	0.07
PAHs:			
Naphthalene	16.6	3.90	0.25 U
2-Methylnaphthalene	12.0	3.63	0.25 U
1-Methylnaphthalene	8.73	2.52	0.25 U
Acenaphthylene	12.1	1.76	0.25 U
Acenaphthene	3.68	1.02	0.25 U
Dibenzofuran	13.0	2.53	0.25 U
Fluorene	17.4	2.42	0.25 U
Phenanthrene	48.9	8.37	0.25 U
Anthracene	20.4	3.49	0.25 U
Fluoranthene	39.1	6.41	0.25 U
Pyrene	29.1	4.91	0.25 U
Benz(a)anthracene	24.0	4.10	0.25 U
Chrysene	22.9	3.94	0.25 U
Benzo(b)fluoranthene	15.0	3.29	0.25 U
Benzo(k)fluoranthene	18.2	3.22	0.25 U
Benzo(a)pyrene	21.0	4.04	0.25 U
Indeno(1,2,3-cd)pyrene	10.3	2.22	0.25 U
Dibenz(a,h)anthracene	3.79	0.90	0.25 U
Benzo(g,h,i)perylene	9.26	2.32	0.25 U
Total PAHs:	333	61.6	ND
Surrogate #1 %Recovery	93	81	63
Surrogate #2 %Recovery	89	85	62

U = Not detected at quantitation limit shown
J = Estimated value
ND = Not detected
C = Coeluted with compound listed above
I = Interference
E = Estimated Value

Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/10/96, in ppm (mg/kg, dry weight)

Lab ID Field ID:	RG960410-01 RGE040896-F1	RG960410-02 RGE040896-F2	RG960410-03 RGE040896-W1
MAHs:			
Benzene	0.25 U	6.61 J	0.60 J
Toluene	0.43	0.96	1.58
Ethylbenzene	0.25 U	0.09 J	0.19 J
m/p-Xylene	0.62	0.84	2.36
Styrene	0.27	0.67	0.77
o-Xylene	0.35	0.35	0.99
1,2,4-Trimethylbenzene	1.30	0.76	3.24
Total MAHs:	1.68	9.52 J	6.49 J
PAHs:			
Naphthalene	85.5	107	135
2-Methylnaphthalene	25.8	67.1	43.9
1-Methylnaphthalene	14.1	36.6	23.2
Acenaphthylene	15.0	47.8	26.8
Acenaphthene	4.38	13.3	7.88
Dibenzofuran	16.6	50.0	28.6
Fluorene	19.0	70.7	39.2
Phenanthrene	57.0	167	99.7
Anthracene	20.2	65.9	37.5
Fluoranthene	36.2	109	63.0
Pyrene	26.2	89.3	45.1
Benz(a)anthracene	19.2 J	65.7 J	34.0 J
Chrysene	15.7	52.9	27.1
Benzo(b)fluoranthene	15.3	36.4	20.4
Benzo(k)fluoranthene	11.4	34.5	19.6
Benzo(a)pyrene	13.3	48.9	23.1
Indeno(1,2,3-cd)pyrene	7.54	25.4	12.2
Dibenz(a,h)anthracene	2.63	7.54	3.99
Benzo(g,h,i)perylene	7.52	26.6	11.5
Total PAHs:	396 J	1,060 J	673 J
%Recoveries			
Surrogate #1	63	78	90
Surrogate #2	57	87	83
Percent Solids	88.1%	83.0%	87.5%

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value
B = Analyte Present in Blank

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/10/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960410-04 RGE040896-W2		RG960410-MB2 Method Blank	
MAHs:				
Benzene	0.10	J	0.16	U
Toluene	0.46		0.16	U
Ethylbenzene	0.20	U	0.16	U
m/p-Xylene	0.36		0.16	U
Styrene	0.13	J	0.16	U
o-Xylene	0.20	J	0.16	U
1,2,4-Trimethylbenzene	0.42		0.16	U
Total MAHs:	1.24	J	ND	
PAHs:				
Naphthalene	10.5		0.16	U
2-Methylnaphthalene	5.30		0.16	U
1-Methylnaphthalene	3.05		0.16	U
Acenaphthylene	5.22		0.16	U
Acenaphthene	1.79		0.16	U
Dibenzofuran	4.33		0.16	U
Fluorene	6.69		0.16	U
Phenanthrene	22.5		0.16	U
Anthracene	12.0		0.16	U
Fluoranthene	25.5		0.16	U
Pyrene	19.4		0.16	U
Benz(a)anthracene	14.5	J	0.16	U
Chrysene	12.6		0.16	U
Benzo(b)fluoranthene	12.0		0.16	U
Benzo(k)fluoranthene	9.47		0.16	U
Benzo(a)pyrene	11.0		0.16	U
Indeno(1,2,3-cd)pyrene	6.52		0.16	U
Dibenz(a,h)anthracene	2.09		0.16	U
Benzo(g,h,i)perylene	6.28		0.16	U
Total PAHs:	185	J	ND	
%Recoveries				
Surrogate #1	93		87	
Surrogate #2	86		96	
Percent Solids	91.4%		Not Applicable	

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value
B = Analyte Present in Blank

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/12/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960412-01 RGE041096-F3		RG960412-02 RGE041096-F4		RG960412-05 RGE041196-W3	
MAHs:						
Benzene	0.24	U	1.75		0.53	
Toluene	0.11	J	2.67		1.52	
Ethylbenzene	0.24	U	0.25	J	0.19	J
m/p-Xylene	0.14	J	1.19		2.41	
Styrene	0.24	U	0.27	U	0.90	
o-Xylene	0.11	J	0.66		1.12	
1,2,4-Trimethylbenzene	0.19	J	0.82		3.99	
Total MAHs:	0.36		6.51		6.66	
PAHs:						
Naphthalene	0.55		2.29		138	
2-Methylnaphthalene	0.85		2.30		63.7	
1-Methylnaphthalene	0.52		1.43		37.0	
Acenaphthylene	0.12	J	0.45		47.2	
Acenaphthene	0.32		0.49		14.2	
Dibenzofuran	0.21	J	0.85		55.7	
Fluorene	0.28		0.69		82.1	
Phenanthrene	0.55		2.74		206	E
Anthracene	0.93		1.66		78.4	
Fluoranthene	0.50		2.82		141	
Pyrene	0.26		2.26		97.6	
Benz(a)anthracene	0.59		1.93		71.0	
Chrysene	0.84		1.86		57.5	
Benzo(b)fluoranthene		I		I	40.6	
Benzo(k)fluoranthene	0.47			I	38.1	
Benzo(a)pyrene	0.43		1.56		49.2	
Indeno(1,2,3-cd)pyrene	0.44		1.26		25.9	
Dibenz(a,h)anthracene	0.19	J	0.43		8.46	
Benzo(g,h,i)perylene	0.47		1.15		27.0	
Total PAHs:	8.28		25.3		1,220	
Surrogate #1 %Recovery	79		79		88	
Surrogate #2 %Recovery	87		86		83	
Percent Solids	80.9%		83.0%		87.1%	

U = Not detected at quantitation limit shown
ND = Not detected
C = Compounds Coeluted
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/12/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960412-06 RGE041096-F5		RG960412-07 RGE041096-F6		RG960412-MB2 Method Blank	
MAHs:						
Benzene	1.28		0.49		0.20	U
Toluene	1.74		0.86		0.20	U
Ethylbenzene	0.26		0.12	J	0.20	U
m/p-Xylene	2.03		0.93		0.20	U
Styrene	1.60		0.60		0.20	U
o-Xylene	0.98		0.38		0.20	U
1,2,4-Trimethylbenzene	3.99		1.78		0.20	U
Total MAHs:	7.79		3.39		ND	
PAHs:						
Naphthalene	158		77.7		0.20	U
2-Methylnaphthalene	86.9		39.5		0.20	U
1-Methylnaphthalene	54.1		27.4		0.20	U
Acenaphthylene	95.2		49.0		0.20	U
Acenaphthene	25.1		13.6		0.20	U
Dibenzofuran	92.4		42.1		0.20	U
Fluorene	143		61.8		0.20	U
Phenanthrene	421		192	E	0.20	U
Anthracene	164		117		0.20	U
Fluoranthene	304		142		0.20	U
Pyrene	217		98.8		0.20	U
Benz(a)anthracene	159		73.2		0.20	U
Chrysene	126		63.1		0.20	U
Benzo(b)fluoranthene	182	C	38.9		0.20	U
Benzo(k)fluoranthene		C	38.9			I
Benzo(a)pyrene	112		48.3		0.20	U
Indeno(1,2,3-cd)pyrene	67.1		23.6		0.20	U
Dibenz(a,h)anthracene	17.6		7.74		0.20	U
Benzo(g,h,i)perylene	55.2		24.0		0.20	U
Total PAHs:	2,380		1,140		ND	
Surrogate #1 %Recovery	86		97		74	
Surrogate #2 %Recovery	95		95		85	
Percent Solids	89.6%		85.6%		Not Applicable	

U = Not detected at quantitation limit shown
ND = Not detected
C = Compounds Coeluted
I = Interference
E = Estimated value, above calibration range
J = Estimated value

Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/12/96, in ppm (mg/kg, dry weight)

Lab ID	RG960412-05 DUP	
Field ID:	Laboratory Dupe	
MAHs:		
Benzene	0.29	
Toluene	0.53	
Ethylbenzene	0.18	U
m/p-Xylene	0.44	
Styrene	0.54	
o-Xylene	0.27	
1,2,4-Trimethylbenzene	0.38	
Total MAHs:	2.05	
PAHs:		
Naphthalene	16.0	
2-Methylnaphthalene	9.38	
1-Methylnaphthalene	11.9	
Acenaphthylene	38.9	
Acenaphthene	9.20	
Dibenzofuran	37.9	
Fluorene	59.6	
Phenanthrene	177	
Anthracene	76.1	
Fluoranthene	125	
Pyrene	106	
Benz(a)anthracene	77.3	
Chrysene	59.8	
Benzo(b)fluoranthene		C
Benzo(k)fluoranthene	91.2	C
Benzo(a)pyrene	54.8	
Indeno(1,2,3-cd)pyrene	28.1	
Dibenz(a,h)anthracene	9.07	
Benzo(g,h,i)perylene	29.2	
Total PAHs:	979	
Surrogate #1 %Recovery	82	
Surrogate #2 %Recovery	90	
Percent Solids	87.1%	

U = Not detected at quantitation limit shown
ND = Not detected
C = Compounds Coeluted
I = Interference
E = Estimated value, above calibration range
J = Estimated value

Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/3, 5/7, and 5/8/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960503-01 RGE050196-F11	RG960503-02 RGE050298-F12	RG960507-MB Method Blank
MAHs:			
Benzene	1.70	0.33 U	0.27
Toluene	2.06	0.21 U	0.20 U
Ethylbenzene	0.38	0.21 U	0.20 U
m/p-Xylene	3.72	0.21 U	0.20 U
Styrene	1.63	0.21 U	0.20 U
o-Xylene	1.63	0.21 U	0.20 U
1,2,4-Trimethylbenzene	7.86	0.21 U	0.20 U
Total MAHs:	11.1	ND	0.27
PAHs:			
Naphthalene	278	1.72	0.20 U
2-Methylnaphthalene	140	1.37	0.20 U
1-Methylnaphthalene	82.5	0.87	0.20 U
Acenaphthylene	94.5	1.29	0.20 U
Acenaphthene	16.0	0.26	0.20 U
Dibenzofuran	106	1.43	0.20 U
Fluorene	124	2.03	0.20 U
Phenanthrene	337	6.36	0.20 U
Anthracene	128	2.21	0.20 U
Fluoranthene	235	4.77	0.20 U
Pyrene	170	3.20	0.20 U
Benz(a)anthracene	117	2.31	0.20 U
Chrysene	100	2.23	0.20 U
Benzo(b)fluoranthene	72.2	1.07	0.20 U
Benzo(k)fluoranthene	51.4	1.48	0.20 U
Benzo(a)pyrene	71.4	1.72	0.20 U
Indeno(1,2,3-cd)pyrene	8.05	0.70	0.20 U
Dibenz(a,h)anthracene	3.26	0.19 J	0.20 U
Benzo(g,h,i)perylene	3.76	0.83	0.20 U
Total PAHs:	2,030	34.6 J	ND
Surrogate #1 %Recovery	83	72	83
Surrogate #2 %Recovery	80	77	89
Percent Solids	86.8%	82.2%	Not Applicable

U = Not detected at quantitation limit shown
ND = Not detected
L = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.
I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/3, 5/7, and 5/8/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960508-01 RGE050696-TTF1		RG960508-02 RGE050696-TTW1		RG960508-MB Method Blank	
MAHs:						
Benzene	0.25	U	0.36	U	0.25	
Toluene	0.20	U	0.34	U	0.15	J
Ethylbenzene	0.20	U	0.17	U	0.19	U
m/p-Xylene	0.20	U	0.20		0.19	U
Styrene	0.20	U	0.16	J	0.19	U
o-Xylene	0.20	U	0.17	U	0.19	U
1,2,4-Trimethylbenzene	0.20	U	0.30		0.19	U
Total MAHs:	ND		0.35	J	0.41	J
PAHs:						
Naphthalene	0.20	U	1.54		0.19	U
2-Methylnaphthalene	0.20	U	1.67		0.19	U
1-Methylnaphthalene	0.20	U	1.62		0.19	U
Acenaphthylene	0.20	U	6.08		0.19	U
Acenaphthene	0.20	U	1.52		0.19	U
Dibenzofuran	0.20	U	3.25		0.19	U
Fluorene	0.20	U	6.38		0.19	U
Phenanthrene	0.19	J	25.6		0.19	U
Anthracene	0.20	U	13.7		0.19	U
Fluoranthene	0.25		30.0		0.19	U
Pyrene	0.15	J	22.4		0.19	U
Benz(a)anthracene	0.21		19.2		0.19	U
Chrysene	0.14	J	16.2		0.19	U
Benzo(b)fluoranthene	0.21		9.70		0.19	U
Benzo(k)fluoranthene	0.26		12.4		0.19	U
Benzo(a)pyrene	0.45		13.7		0.19	U
Indeno(1,2,3-cd)pyrene	0.20	J	7.11		0.19	U
Dibenz(a,h)anthracene	0.20	U	2.64		0.19	U
Benzo(g,h,i)perylene	0.36		6.19		0.19	U
Total PAHs:	2.42	J	198		ND	
Surrogate #1 %Recovery	62		66		76	
Surrogate #2 %Recovery	64		64		81	
Percent Solids	85.3%		85.3%		Not Applicable	

U = Not detected at quantitation limit shown
ND = Not detected
L = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/3, 5/7, and 5/8/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960508-01 DUP Laboratory Dupe	RG960509-01 RGE050896-F7	RG960509-MB Method Blank
MAHs:			
Benzene	0.29 U	0.71	0.19 U
Toluene	0.17 U	0.71	0.19 U
Ethylbenzene	0.16 U	0.16	0.19 U
m/p-Xylene	0.16 U	1.08	0.19 U
Styrene	0.16 U	0.81	0.19 U
o-Xylene	0.16 U	0.44	0.19 U
1,2,4-Trimethylbenzene	0.16 U	3.20	0.19 U
Total MAHs:	**ND**	**3.92**	**ND**
PAHs:			
Naphthalene	2.25	103	0.19 U
2-Methylnaphthalene	1.53	77.1	0.19 U
1-Methylnaphthalene	0.97	46.4	0.19 U
Acenaphthylene	1.46	67.4	0.19 U
Acenaphthene	0.20	12.2	0.19 U
Dibenzofuran	1.19	73.2	0.19 U
Fluorene	1.62	100	0.19 U
Phenanthrene	4.38	304	0.19 U
Anthracene	1.69	109	0.19 U
Fluoranthene	3.00	217	0.19 U
Pyrene	2.10	154	0.19 U
Benz(a)anthracene	1.83	104	0.19 U
Chrysene	1.69	87.4	0.19 U
Benzo(b)fluoranthene	0.87	63.2	0.19 U
Benzo(k)fluoranthene	1.29	43.0	0.19 U
Benzo(a)pyrene	1.61	61.5	0.19 U
Indeno(1,2,3-cd)pyrene	0.72	6.89	0.19 U
Dibenz(a,h)anthracene	0.26	2.80	0.19 U
Benzo(g,h,i)perylene	0.71	3.22	0.19 U
Total PAHs:	**28.1**	**1,560**	**ND**
Surrogate #1 %Recovery	70	79	82
Surrogate #2 %Recovery	71	78	83
Percent Solids	85.3%	89.0%	Not Applicable

U = Not detected at quantitation limit shown
ND = Not detected
L = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.
I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/13/96 and 5/17/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960513-01 RGE051096-TTF2		RG960513-02 RGE051096-TTW2		RG960513-03 RGE051096-TTF3	
MAHs:						
Benzene	0.16	U	0.16	U	0.18	U
Toluene	0.28	U	0.18	U	0.18	U
Ethylbenzene	0.16	U	0.16	U	0.18	U
m/p-Xylene	0.27		0.29		0.21	
Styrene	0.11		0.16	U	0.18	U
o-Xylene	0.12		0.18		0.18	U
1,2,4-Trimethylbenzene	0.27		0.28		0.18	U
Total MAHs:	0.51		0.47		0.21	
PAHs:						
Naphthalene	7.05		3.30		0.31	U
2-Methylnaphthalene	3.30		1.82		0.65	
1-Methylnaphthalene	1.84		1.06		0.12	J
Acenaphthylene	2.52		0.74		0.29	
Acenaphthene	0.78		0.37		0.12	J
Dibenzofuran	2.23		0.78		0.13	J
Fluorene	2.76		0.67		0.18	
Phenanthrene	8.92		3.19		1.20	
Anthracene	4.54	J	1.50	J	0.46	J
Fluoranthene	8.01		4.12		2.28	
Pyrene	8.36		3.40		1.95	
Benz(a)anthracene	6.16		2.60		1.29	
Chrysene	5.60		2.49		1.26	
Benzo(b)fluoranthene	4.51		2.08		2.32	
Benzo(k)fluoranthene	5.10		2.11		0.18	U
Benzo(a)pyrene	6.60		3.41		1.63	
Indeno(1,2,3-cd)pyrene	4.59		2.24		0.98	
Dibenz(a,h)anthracene	1.47		1.59		0.38	
Benzo(g,h,i)perylene	4.00		1.59		1.02	
Total PAHs:	84.1	J	38.3	J	16.4	J
Surrogate #1 %Recovery	73		79		72	
Surrogate #2 %Recovery	74		88		76	
Percent Solids	86.5%		88.3%		88.9%	

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
I = Interference
E = Estimated value, above calibration range
J = Estimated value

Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/13/96 and 5/17/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960513-04 RGE051096-TTW3		RG960513-05 RGE051096-TTF4		RG960513-06 RGE051096-TTW4	
MAHs:						
Benzene	0.20	U	0.17	U	0.18	U
Toluene	4.80		0.17	U	0.18	U
Ethylbenzene	0.37		0.17	U	0.23	
m/p-Xylene	4.28		0.16	J	0.12	J
Styrene	1.71		0.17	U	4.85	
o-Xylene	1.57		0.09	J	0.12	J
1,2,4-Trimethylbenzene	5.38		0.13	J	2.50	
Total MAHs:	12.7		0.25	J	5.31	J
PAHs:						
Naphthalene	264		2.31		0.77	U
2-Methylnaphthalene	73.7		1.23		1.15	
1-Methylnaphthalene	35.6		0.84		0.12	J
Acenaphthylene	38.8		1.07		1.39	
Acenaphthene	11.8		0.36		0.18	U
Dibenzofuran	41.8		0.98		0.14	J
Fluorene	50.6		1.32		0.09	J
Phenanthrene	130		4.36		0.92	
Anthracene	50.8	J	1.87	J	0.77	J
Fluoranthene	83.4		3.45		1.79	
Pyrene	60.2		2.47		2.26	
Benz(a)anthracene	42.5		1.87		2.50	
Chrysene	35.3		1.63		3.01	
Benzo(b)fluoranthene	21.9		1.24		5.34	
Benzo(k)fluoranthene	24.1		1.17		4.92	
Benzo(a)pyrene	29.2		4.09		5.12	
Indeno(1,2,3-cd)pyrene	14.3		2.23		4.81	
Dibenz(a,h)anthracene	4.64		1.06		1.23	
Benzo(g,h,i)perylene	11.5		0.75		5.12	
Total PAHs:	982	J	33.3	J	41.3	J
Surrogate #1 %Recovery	82		77		86	
Surrogate #2 %Recovery	77		85		63	
Percent Solids	87.8%		93.9%		85.1%	

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
I = Interference
E = Estimated value, above calibration range
J = Estimated value

Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/13/96 and 5/17/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960513-MB Method Blank		RG960513-01DUP Laboratory Dupe		RG960517-01 RGE051598-W5	
MAHs:						
Benzene	0.19	U	0.26	U	0.14	U
Toluene	0.09	J	0.26	U	0.10	U
Ethylbenzene	0.19	U	0.26	U	0.10	U
m/p-Xylene	0.19	U	0.15	J	0.10	U
Styrene	0.19	U	0.26	U	0.10	U
o-Xylene	0.19	U	0.26	U	0.10	U
1,2,4-Trimethylbenzene	0.19	U	0.26	U	0.35	
Total MAHs:	0.09	J	0.15	J	ND	
PAHs:						
Naphthalene	0.10	J	1.05	U	0.48	
2-Methylnaphthalene	0.19	U	0.87		0.39	
1-Methylnaphthalene	0.19	U	0.47		0.33	
Acenaphthylene	0.19	U	0.97		0.62	
Acenaphthene	0.19	U	0.29		0.40	
Dibenzofuran	0.19	U	0.62		0.61	
Fluorene	0.19	U	0.90		1.07	
Phenanthrene	0.19	U	4.40		5.55	
Anthracene	0.19	U	2.19	J	2.06	
Fluoranthene	0.19	U	5.39		7.03	
Pyrene	0.19	U	4.30		5.14	
Benz(a)anthracene	0.19	U	3.72		3.68	
Chrysene	0.19	U	3.40		3.83	
Benzo(b)fluoranthene	0.19	U	2.80		2.78	
Benzo(k)fluoranthene	0.19	U	2.94		2.54	
Benzo(a)pyrene	0.19	U	4.63		2.51	
Indeno(1,2,3-cd)pyrene	0.19	U	2.89		1.92	
Dibenz(a,h)anthracene	0.19	U	1.13		0.70	
Benzo(g,h,i)perylene	0.19	U	2.06		2.17	
Total PAHs:	0.10	J	44.4	J	43.1	
Surrogate #1 %Recovery	76		102		98	
Surrogate #2 %Recovery	99		92		87	
Percent Solids	Not Applicable		86.5%		88.4%	

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.
I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/13/96 and 5/17/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960617-02 RGE051696-F13		RG960517-03 RGE051696-F14		RG960520-MB Method Blank	
MAHs:						
Benzene	0.23	U	0.20	U	0.12	J
Toluene	0.23	U	0.20	U	0.19	U
Ethylbenzene	0.23	U	0.20	U	0.19	U
m/p-Xylene	0.23	U	0.20	U	0.19	U
Styrene	0.23	U	0.20	U	0.19	U
o-Xylene	0.23	U	0.20	U	0.19	U
1,2,4-Trimethylbenzene	0.23	U	0.20	U	0.19	U
Total MAHs:	ND		ND		0.12	J
PAHs:						
Naphthalene	1.80		0.55		0.19	U
2-Methylnaphthalene	0.50		0.16	J	0.19	U
1-Methylnaphthalene	0.26		0.11	J	0.19	U
Acenaphthylene	0.19	J	0.20	U	0.19	U
Acenaphthene	0.23	U	0.20	U	0.19	U
Dibenzofuran	0.22	J	0.20	U	0.19	U
Fluorene	0.27		0.08	J	0.19	U
Phenanthrene	0.91		0.26		0.19	U
Anthracene	0.45		0.20	U	0.19	U
Fluoranthene	0.89		0.26		0.19	U
Pyrene	0.68		0.17	J	0.19	U
Benz(a)anthracene	0.40		0.11	J	0.19	U
Chrysene	0.42		0.12	J	0.19	U
Benzo(b)fluoranthene	0.84		0.39		0.19	U
Benzo(k)fluoranthene	0.23	U	0.20	U	0.19	U
Benzo(a)pyrene	0.30		0.20	U	0.19	U
Indeno(1,2,3-cd)pyrene	0.20	J	0.20	U	0.19	U
Dibenz(a,h)anthracene	0.23	U	0.20	U	0.19	U
Benzo(g,h,i)perylene	0.25		0.20	U	0.19	U
Total PAHs:	8.34	J	2.21	J	ND	
Surrogate #1 %Recovery	72		76		86	
Surrogate #2 %Recovery	75		82		91	
Percent Solids	77.8%		76.0%		Not Applicable	

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 5/13/96 and 5/17/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960517-03DUP Laboratory Dupe	
MAHs:		
Benzene	0.28	U
Toluene	0.22	U
Ethylbenzene	0.22	U
m/p-Xylene	0.22	U
Styrene	0.22	U
o-Xylene	0.22	U
1,2,4-Trimethylbenzene	0.22	U
Total MAHs:	**ND**	
PAHs:		
Naphthalene	0.76	
2-Methylnaphthalene	0.21	J
1-Methylnaphthalene	0.15	J
Acenaphthylene	0.22	U
Acenaphthene	0.22	U
Dibenzofuran	0.22	U
Fluorene	0.09	J
Phenanthrene	0.26	
Anthracene	0.22	U
Fluoranthene	0.24	
Pyrene	0.16	J
Benz(a)anthracene	0.11	J
Chrysene	0.12	J
Benzo(b)fluoranthene	0.39	
Benzo(k)fluoranthene	0.22	U
Benzo(a)pyrene	0.22	U
Indeno(1,2,3-cd)pyrene	0.22	U
Dibenz(a,h)anthracene	0.22	U
Benzo(g,h,i)perylene	0.22	U
Total PAHs:	**2.48**	J
Surrogate #1 %Recovery	85	
Surrogate #2 %Recovery	88	
Percent Solids	76.0%	

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/12/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960426-01 RGE042396-W4		RG960426-02 RGE042596-F8		RG960426-03 RGE042596-F9	
MAHs:						
Benzene	0.24	U	0.20	U	11.2	
Toluene	0.20	U	0.23		14.3	
Ethylbenzene	0.20	U	0.20	U	1.46	
m/p-Xylene	0.20	U	0.27		18.7	
Styrene	0.20	U	0.17	J	5.27	
o-Xylene	0.20	U	0.20	U	7.62	
1,2,4-Trimethylbenzene	0.20	U	1.06		25.1	
Total MAHs:	0.24		0.67	J	58.5	
PAHs:						
Naphthalene	0.20	J	44.3		1,160	
2-Methylnaphthalene	0.20	U	23.1		349	
1-Methylnaphthalene	0.20	U	13.7		164	
Acenaphthylene	0.20	U	18.7		188	
Acenaphthene	0.20	U	4.12		28.7	
Dibenzofuran	0.20	U	20.6		210	
Fluorene	0.20	U	33.6		253	
Phenanthrene	0.39		92.6		662	
Anthracene	0.20	U	32.4		232	
Fluoranthene	0.56		76.4		420	
Pyrene	0.33		62.5		280	
Benz(a)anthracene	0.27		39.6		208	
Chrysene	0.40		32.6		162	
Benzo(b)fluoranthene	0.25		19.9		104	
Benzo(k)fluoranthene	0.23		24.2		70.0	
Benzo(a)pyrene	0.27		27.9		91.0	
Indeno(1,2,3-cd)pyrene	0.15	J	12.3		7.14	
Dibenz(a,h)anthracene	0.20	U	4.19		2.96	
Benzo(g,h,i)perylene	0.17	J	9.15		3.43	
Total PAHs:	3.22	J	571		4,360	
Surrogate #1 %Recovery	66		57		75	
Surrogate #2 %Recovery	78		66		83	
Percent Solids	81.8%		70.3%		78.7%	

U = Not detected at quantitation limit shown

ND = Not detected

C = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/12/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960426-04 RGE042596-F10	RG960426-05 RGE041296-F7	RG960426-MB Method Blank
MAHs:			
Benzene	11.3	7.52 J	0.21 J
Toluene	16.1	10.4 J	0.19 U
Ethylbenzene	1.70	2.02 J	0.19 U
m/p-Xylene	18.7	24.3 J	0.19 U
Styrene	6.56	7.07 J	0.19 U
o-Xylene	7.50	8.78 J	0.19 U
1,2,4-Trimethylbenzene	23.5	31.4 J	0.19 U
Total MAHs:	61.9	60.1 J	0.21 J
PAHs:			
Naphthalene	1,040	995 J	0.19 U
2-Methylnaphthalene	331	409 J	0.19 U
1-Methylnaphthalene	167	217 J	0.19 U
Acenaphthylene	178	235 J	0.19 U
Acenaphthene	29.1	39.8 J	0.19 U
Dibenzofuran	222	279 J	0.19 U
Fluorene	256	328 J	0.19 U
Phenanthrene	738	959 J	0.19 U
Anthracene	256	332 J	0.19 U
Fluoranthene	494	647 J	0.19 U
Pyrene	333	430 J	0.19 U
Benz(a)anthracene	248	310 J	0.19 U
Chrysene	214	266 J	0.19 U
Benzo(b)fluoranthene	107	143 J	0.19 U
Benzo(k)fluoranthene	69.3	85.6 J	0.19 U
Benzo(a)pyrene	74.1	80.9 J	0.19 U
Indeno(1,2,3-cd)pyrene	5.17	6.16 J	0.19 U
Dibenz(a,h)anthracene	1.97	2.41 J	0.19 U
Benzo(g,h,i)perylene	3.07	3.57 J	0.19 U
Total PAHs:	4,550	5,490 J	ND
Surrogate #1 %Recovery	79	89	74
Surrogate #2 %Recovery	87	90	86
Percent Solids	82.4%	89.8%	Not Applicable

U = Not detected at quantitation limit shown

ND = Not detected

C = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas & Electric Soil Samples Received 4/12/96, in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960426-05 DUP Laboratory Dupe	
MAHs:		
Benzene	7.81	J
Toluene	11.7	J
Ethylbenzene	2.73	J
m/p-Xylene	36.1	J
Styrene	8.32	J
o-Xylene	13.5	J
1,2,4-Trimethylbenzene	38.9	J
Total MAHs:	80.3	J
PAHs:		
Naphthalene	1,050	J
2-Methylnaphthalene	400	J
1-Methylnaphthalene	209	J
Acenaphthylene	218	J
Acenaphthene	34.1	J
Dibenzofuran	286	J
Fluorene	308	J
Phenanthrene	877	J
Anthracene	305	J
Fluoranthene	572	J
Pyrene	380	J
Benz(a)anthracene	267	J
Chrysene	229	J
Benzo(b)fluoranthene	118	J
Benzo(k)fluoranthene	73.8	J
Benzo(a)pyrene	71.0	J
Indeno(1,2,3-cd)pyrene	5.18	J
Dibenz(a,h)anthracene	2.10	J
Benzo(g,h,i)perylene	3.01	J
Total PAHs:	5,120	J
Surrogate #1 %Recovery	73	
Surrogate #2 %Recovery	85	
Percent Solids	89.8%	

to be redone - sample amount too low

U = Not detected at quantitation limit shown
ND = Not detected
C = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960522-02 RGE052196-F15	RG960522-03 RGE052196-F16	RG960522-04 RGE052196-W6
MAHs:			
Benzene	9.20	1.69	2.05
Toluene	11.7	2.55	2.37
Ethylbenzene	1.06	0.22	0.21
m/p-Xylene	14.6	2.78	2.46
Styrene	5.80	1.07	1.09
o-Xylene	5.05	1.09	0.99
1,2,4-Trimethylbenzene	18.9	3.58	3.75
Total MAHs:	47.5	9.39	9.17
PAHs:			
Naphthalene	784	127 J	134
2-Methylnaphthalene	226	44.3	64.1
1-Methylnaphthalene	113	22.9	35.9
Acenaphthylene	161	25.9	40.1
Acenaphthene	47.0	7.35	11.9
Dibenzofuran	147	28.5	43.5
Fluorene	186	33.3	52.9
Phenanthrene	531	90.6	134
Anthracene	152	37.4 J	57.4 J
Fluoranthene	337	60.5	93.6
Pyrene	235	40.8	63.5
Benz(a)anthracene	161	33.1	51.7
Chrysene	133	27.9	41.9
Benzo(b)fluoranthene	76.2	17.1	27.6
Benzo(k)fluoranthene	70.2	19.9	28.1
Benzo(a)pyrene	117	23.2	37.7
Indeno(1,2,3-cd)pyrene	37.1	12.2	18.6
Dibenz(a,h)anthracene	14.2	4.77	6.95
Benzo(g,h,i)perylene	27.0	9.95	13.9
Total PAHs:	3,400	638 J	915 J
Surrogate #1 %Recovery	83	82	89
Surrogate #2 %Recovery	93	68	72
Percent Solids	84.0%	85.7%	86.2%

U = Not detected at quantitation limit shown
ND = Not detected
L = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID	RG980522-MB		RG980523-02
Field ID:	Method Blank		RGE052296-F17
MAHs:			
Benzene	0.13	J	2.77
Toluene	0.15	U	2.78
Ethylbenzene	0.15	U	0.34
m/p-Xylene	0.15	U	2.63
Styrene	0.15	U	2.01
o-Xylene	0.15	U	0.95
1,2,4-Trimethylbenzene	0.15	U	5.15
Total MAHs:	0.13	J	11.5
PAHs:			
Naphthalene	0.15	U	228
2-Methylnaphthalene	0.15	U	150
1-Methylnaphthalene	0.15	U	88.4
Acenaphthylene	0.15	U	148
Acenaphthene	0.15	U	46.4
Dibenzofuran	0.15	U	156
Fluorene	0.15	U	206
Phenanthrene	0.15	U	625
Anthracene	0.15	U	174
Fluoranthene	0.15	U	404
Pyrene	0.15	U	281
Benz(a)anthracene	0.15	U	193
Chrysene	0.15	U	158
Benzo(b)fluoranthene	0.15	U	92.9
Benzo(k)fluoranthene	0.15	U	53.6
Benzo(a)pyrene	0.15	U	140
Indeno(1,2,3-cd)pyrene	0.15	U	28.5
Dibenz(a,h)anthracene	0.15	U	11.5
Benzo(g,h,i)perylene	0.15	U	15.5
Total PAHs:	ND		3,040
Surrogate #1 %Recovery	70		84
Surrogate #2 %Recovery	73		118
Percent Solids	Not Applicable		92.1%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960523-03 RGE052296-F18	RG960523-04 RGE052296-TTF5	RG960523-05 RGE052296-TTW5
MAHs:			
Benzene	5.87	0.17 U	0.18 JB
Toluene	7.18	0.16 J	0.24 U
Ethylbenzene	1.02	0.16 U	0.24 U
m/p-Xylene	11.6	0.15 J	0.24 U
Styrene	6.44	0.16 U	0.15 J
o-Xylene	4.75	0.09 J	0.24 U
1,2,4-Trimethylbenzene	24.4	0.10 J	0.24 U
Total MAHs:	36.9	0.56 J	0.33 J
PAHs:			
Naphthalene	972	0.46 U	0.69
2-Methylnaphthalene	530	0.64 U	0.56 U
1-Methylnaphthalene	297	0.34 U	0.25 U
Acenaphthylene	403	1.32	5.76
Acenaphthene	96.3	0.24	0.79
Dibenzofuran	417	0.31	0.60
Fluorene	537	0.28	0.98
Phenanthrene	1,580	4.51	8.61
Anthracene	435	3.01	7.32
Fluoranthene	1,020	13.3	24.8
Pyrene	708	10.5	21.2
Benz(a)anthracene	493	8.56	20.1
Chrysene	402	8.88	17.7
Benzo(b)fluoranthene	238	7.08	15.4
Benzo(k)fluoranthene	326	8.01	16.4
Benzo(a)pyrene	368	9.67	18.6
Indeno(1,2,3-cd)pyrene	21.4	5.96	12.5
Dibenz(a,h)anthracene	9.44	2.10	3.85
Benzo(g,h,i)perylene	12.8	5.50	11.2
Total PAHs:	8,430	90.3	187
Surrogate #1 %Recovery	87	89	113
Surrogate #2 %Recovery	159 I	91	80
Percent Solids	83.7%	77.2%	85.9%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960523-04 DUP Laboratory Dupe		RG960523-MB Method Blank		RG960529-01 A RGE052896-F19	
MAHs:						
Benzene	0.27	U	0.10	J	0.29	U
Toluene	0.33		0.16	U	0.27	
Ethylbenzene	0.23	U	0.16	U	0.08	J
m/p-Xylene	0.64		0.16	U	0.41	
Styrene	0.23	U	0.16	U	0.28	
o-Xylene	0.19	J	0.16	U	0.15	J
1,2,4-Trimethylbenzene	0.19	J	0.16	U	0.79	
Total MAHs:	1.44	J	0.10	J	1.48	J
PAHs:						
Naphthalene	0.53	U	0.11		26.3	
2-Methylnaphthalene	0.77	U	0.18		15.7	
1-Methylnaphthalene	0.46	U	0.11		9.87	
Acenaphthylene	0.58		0.16	U	9.47	
Acenaphthene	0.25		0.16	U	2.69	
Dibenzofuran	0.34		0.16	U	13.8	
Fluorene	0.22	J	0.16	U	17.8	
Phenanthrene	2.16		0.16	U	46.6	
Anthracene	1.10	J	0.16	U	16.5	
Fluoranthene	4.01		0.16	U	28.5	
Pyrene	3.29		0.16	U	20.8	
Benz(a)anthracene	3.69		0.16	U	15.4	
Chrysene	3.65		0.16	U	13.1	
Benzo(b)fluoranthene	3.97		0.16	U	6.94	
Benzo(k)fluoranthene	3.74		0.16	U	9.79	
Benzo(a)pyrene	4.52		0.16	U	10.7	
Indeno(1,2,3-cd)pyrene	3.40		0.16	U	5.25	
Dibenz(a,h)anthracene	1.27		0.16	U	1.88	
Benzo(g,h,i)perylene	4.09		0.16	U	4.14	
Total PAHs:	41.7	J	0.40		261	
Surrogate #1 %Recovery	93		76		100	
Surrogate #2 %Recovery	82		88		100	
Percent Solids	77.2%		Not Applicable		86.8%	

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960529-02 RGE052896-F20	RG960529-03 RGE052896-F21	RG960529-04 RGE052896-F22
MAHs:			
Benzene	0.27 U	0.37 U	1.77
Toluene	0.17 J	0.45	1.99
Ethylbenzene	0.21 U	0.08 J	0.35
m/p-Xylene	0.18 J	0.45	2.34
Styrene	0.32	0.37	1.85
o-Xylene	0.21 U	0.14	0.97
1,2,4-Trimethylbenzene	0.21 U	0.79	5.12
Total MAHs:	0.95 J	1.86 J	9.27
PAHs:			
Naphthalene	1.42	19.7	115
2-Methylnaphthalene	2.33	13.4	78.5
1-Methylnaphthalene	2.48	9.82	63.5
Acenaphthylene	2.73	24.5	96.2
Acenaphthene	1.33	4.98	19.0
Dibenzofuran	1.38	21.8	101
Fluorene	2.03	31.0	135
Phenanthrene	11.3	104 E	378
Anthracene	2.59	37.0	124
Fluoranthene	9.63	95.1	280
Pyrene	9.11	81.0	200
Benz(a)anthracene	4.67	49.9	138
Chrysene	4.78	41.3	116
Benzo(b)fluoranthene	3.06	21.0	91.0
Benzo(k)fluoranthene	3.02	22.3	62.9
Benzo(a)pyrene	3.04	37.5	100
Indeno(1,2,3-cd)pyrene	2.09	12.8	53.2
Dibenz(a,h)anthracene	0.66	0.12 U	L
Benzo(g,h,i)perylene	1.90	13.9	30.7
Total PAHs:	68.2	619	2,080
Surrogate #1 %Recovery	98	103	93
Surrogate #2 %Recovery	103	123 I	91
Percent Solids	95.4%	92.9%	88.4%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960529-01 B RGE052896-F19	RG960529-SB Method Blank	RG960531-01 RGE052996-F23
MAHs:			
Benzene	0.38 U	0.12 J	0.21 U
Toluene	0.46	0.19 U	0.24
Ethylbenzene	0.11 J	0.19 U	0.19 U
m/p-Xylene	0.63	0.19 U	0.43
Styrene	0.73	0.19 U	0.40
o-Xylene	0.26	0.19 U	0.19 U
1,2,4-Trimethylbenzene	1.43	0.19 U	0.63
Total MAHs:	2.66 J	0.12 J	1.27
PAHs:			
Naphthalene	34.8	0.19 U	7.77
2-Methylnaphthalene	19.8	0.16 J	4.01
1-Methylnaphthalene	12.9	0.19 U	2.73
Acenaphthylene	12.7	0.19 U	3.36
Acenaphthene	3.65	0.19 U	0.86
Dibenzofuran	23.3	0.19 U	3.57
Fluorene	27.8	0.19 U	4.51
Phenanthrene	86.7	0.19 U	12.4
Anthracene	35.4	0.19 U	4.28
Fluoranthene	56.0	0.19 U	9.47
Pyrene	48.3	0.19 U	8.64
Benz(a)anthracene	31.0	0.19 U	4.89
Chrysene	25.8	0.19 U	4.42
Benzo(b)fluoranthene	15.0	0.19 U	2.74
Benzo(k)fluoranthene	19.2	0.19 U	3.37
Benzo(a)pyrene	22.5	0.19 U	3.68
Indeno(1,2,3-cd)pyrene	11.2	0.19 U	2.20
Dibenz(a,h)anthracene	3.80	0.19 U	0.87
Benzo(g,h,i)perylene	9.28	0.19 U	1.89
Total PAHs:	476	0.16 J	80.1
Surrogate #1 %Recovery	104	95	109
Surrogate #2 %Recovery	87	110	85
Percent Solids	83.8%	Not Applicable	83.6%

U = Not detected at quantitation limit shown
ND = Not detected
L = Coeluted with compound listed above
Total MAHs does not include 1,2,4-Trimethylbenzene.
Total PAHs does not include Dibenzofuran.

I = Interference
E = Estimated value, above calibration range
J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960805-SB Method Blank		RG960611-01 RGE060796-W7		RG960611-03 RGE061096-F24	
MAHs:						
Benzene	0.11	J	0.17	U	0.24	U
Toluene	0.18	U	0.11	J	0.44	
Ethylbenzene	0.18	U	0.17	U	0.12	J
m/p-Xylene	0.18	U	0.11	J	0.38	
Styrene	0.18	U	0.17	U	1.46	
o-Xylene	0.18	U	0.17	U		L
1,2,4-Trimethylbenzene	0.18	U	0.17	U	1.81	
Total MAHs:	0.11	J	0.21	J	2.41	J
PAHs:						
Naphthalene	0.18	U	2.04	J	22.5	
2-Methylnaphthalene	0.18	U	0.68	J	17.8	
1-Methylnaphthalene	0.18	U	0.43		12.4	
Acenaphthylene	0.18	U	0.58		33.9	
Acenaphthene	0.18	U	0.42		5.68	
Dibenzofuran	0.18	U	0.46		27.1	
Fluorene	0.18	U	0.77		37.2	
Phenanthrene	0.18	U	2.20		120	
Anthracene	0.18	U	0.63		47.2	
Fluoranthene	0.18	U	2.01		101	
Pyrene	0.18	U	1.67		96.2	
Benz(a)anthracene	0.18	U	0.99		58.0	
Chrysene	0.18	U	1.10		47.7	
Benzo(b)fluoranthene	0.18	U	0.72		30.7	
Benzo(k)fluoranthene	0.18	U	0.78		33.9	
Benzo(a)pyrene	0.18	U	0.86		41.5	
Indeno(1,2,3-cd)pyrene	0.18	U	0.66		19.9	
Dibenz(a,h)anthracene	0.18	U	0.24		6.58	
Benzo(g,h,i)perylene	0.18	U	0.60		16.6	
Total PAHs:	ND		17.4	J	748	
Surrogate #1 %Recovery	100		73		112	
Surrogate #2 %Recovery	105		79		103	
Percent Solids	Not Applicable		86.4%		78.0%	

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960811-04 RGE061096-F25	RG960811-05 RGE061096-F26	RG960811-06 RGE060796-W8
MAHs:			
Benzene	1.35	0.46	0.22 U
Toluene	1.42	0.44	0.15 J
Ethylbenzene	0.16 J	0.17 J	0.22 U
m/p-Xylene	1.23	0.49	0.23 J
Styrene	1.44	0.84	0.22 U
o-Xylene	0.39	0.23	0.17 J
1,2,4-Trimethylbenzene	2.85	1.54	0.22 U
Total MAHs:	5.99 J	2.61 J	0.54 J
PAHs:			
Naphthalene	43.3	19.0	0.55 U
2-Methylnaphthalene	48.2	19.0	0.50
1-Methylnaphthalene	36.6	11.2	0.36
Acenaphthylene	63.6	26.4	0.76
Acenaphthene	12.6	4.85	0.36
Dibenzofuran	70.6	18.9	0.29
Fluorene	99.4	28.6	0.55
Phenanthrene	247	84.6	3.04
Anthracene	108	35.3	1.04
Fluoranthene	162	89.0	4.45
Pyrene	148	77.5	3.55
Benz(a)anthracene	86.5	50.0	3.15
Chrysene	73.9	40.6	3.13
Benzo(b)fluoranthene	50.0	27.6	2.21
Benzo(k)fluoranthene	46.9	30.1	2.64
Benzo(a)pyrene	64.2	37.6	2.96
Indeno(1,2,3-cd)pyrene	28.9	17.7	2.22
Dibenz(a,h)anthracene	8.64	5.52	0.84
Benzo(g,h,i)perylene	21.8	13.9	2.04
Total PAHs:	1,350	619	34.3
Surrogate #1 %Recovery	114	95	91
Surrogate #2 %Recovery	96	97	92
Percent Solids	85.9%	84.3%	86.5%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960611-07 RGE060796-W9	RG960611-08 RGE060796-W11	RG960611-09 RGE060796-W10
MAHs:			
Benzene	0.71	0.21 U	10.5
Toluene	0.56	0.18 J	11.1
Ethylbenzene	0.11 J	0.21 U	3.11
m/p-Xylene	0.37	0.16 J	14.3
Styrene	0.81	0.41	5.82
o-Xylene	0.20 U	0.21 U	5.53
1,2,4-Trimethylbenzene	0.93	0.21 U	32.0
Total MAHs:	2.56 J	0.76 J	50.4
PAHs:			
Naphthalene	5.86	2.53	914
2-Methylnaphthalene	4.49	1.03	362
1-Methylnaphthalene	3.35	0.61	220
Acenaphthylene	25.5	20.1	222
Acenaphthene	3.86	1.26	43.6
Dibenzofuran	7.96	2.03	230
Fluorene	13.9	4.04	268
Phenanthrene	55.3	52.7	849
Anthracene	29.2	19.1	233
Fluoranthene	107	97.4	550
Pyrene	93.0	86.9	383
Benz(a)anthracene	63.5	60.0	273
Chrysene	51.3	48.7	218
Benzo(b)fluoranthene	37.0	35.7	122
Benzo(k)fluoranthene	40.5	38.0	70.9
Benzo(a)pyrene	50.5	46.0	174
Indeno(1,2,3-cd)pyrene	24.6	22.9	45.6
Dibenz(a,h)anthracene	7.28	6.68	9.13
Benzo(g,h,i)perylene	19.5	18.6	21.2
Total PAHs:	636	561	4,980
Surrogate #1 %Recovery	96	109	87
Surrogate #2 %Recovery	92	97	98
Percent Solids	83.8%	85.1%	83.1%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960611-03 DUP Laboratory Dupe	RG960611-SB Method Blank	RG960814-01 RGE061196-RB1
MAHs:			
Benzene	2.23	0.16 U	0.16 U
Toluene	2.81	0.16 U	0.19
Ethylbenzene	0.46	0.16 U	0.16 U
m/p-Xylene	4.51	0.16 U	0.14 J
Styrene	3.51	0.16 U	0.14 J
o-Xylene	1.68	0.16 U	0.16 U
1,2,4-Trimethylbenzene	8.69	0.16 U	0.31
Total MAHs:	15.2	ND	0.47 J
PAHs:			
Naphthalene	285	0.12 J	26.0
2-Methylnaphthalene	126	0.08 J	11.4
1-Methylnaphthalene	79.6	0.16 U	5.93
Acenaphthylene	120	0.16 U	11.2
Acenaphthene	37.1	0.16 U	2.22
Dibenzofuran	119	0.16 U	15.8
Fluorene	194	0.16 U	20.5
Phenanthrene	550	0.16 U	69.7
Anthracene	218	0.16 U	23.6
Fluoranthene	369	0.16 U	43.9
Pyrene	276	0.16 U	31.1
Benz(a)anthracene	206	0.16 U	20.7
Chrysene	154	0.16 U	18.7
Benzo(b)fluoranthene	110	0.16 U	10.5
Benzo(k)fluoranthene	70.9	0.16 U	13.3
Benzo(a)pyrene	115	0.16 U	15.3
Indeno(1,2,3-cd)pyrene	37.3	0.16 U	8.13
Dibenz(a,h)anthracene	10.2	0.16 U	2.90
Benzo(g,h,i)perylene	25.8	0.16 U	7.15
Total PAHs:	2,980	0.21 J	342
Surrogate #1 %Recovery	96	88	78
Surrogate #2 %Recovery	95	95	67
Percent Solids	78.0%	Not Applicable	85.7%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960618-MB Method Blank	RG960619-02 RGE061796-W12	RG960619-03 RGE061796-F27
MAHs:			
Benzene	0.19 U	1.00	0.18
Toluene	0.19 U	1.13	0.24
Ethylbenzene	0.19 U	0.25	0.08 J
m/p-Xylene	0.19 U	1.28	0.35
Styrene	0.19 U	0.53	0.10 J
o-Xylene	0.19 U	0.44	0.17 J
1,2,4-Trimethylbenzene	0.19 U	1.56	0.39
Total MAHs:	ND	4.62	1.13 J
PAHs:			
Naphthalene	0.19 U	41.7	3.82
2-Methylnaphthalene	0.19 U	20.8	2.31
1-Methylnaphthalene	0.19 U	12.8	1.95
Acenaphthylene	0.19 U	23.9	3.32
Acenaphthene	0.19 U	6.57	0.93
Dibenzofuran	0.19 U	22.0	2.38
Fluorene	0.19 U	30.5	3.33
Phenanthrene	0.19 U	93.6	12.7
Anthracene	0.19 U	30.9	4.29
Fluoranthene	0.19 U	76.1	13.2
Pyrene	0.19 U	63.8	9.74
Benz(a)anthracene	0.19 U	39.3	7.97
Chrysene	0.19 U	32.7	6.85
Benzo(b)fluoranthene	0.19 U	20.9	4.27
Benzo(k)fluoranthene	0.19 U	24.3	5.58
Benzo(a)pyrene	0.19 U	27.3	5.36
Indeno(1,2,3-cd)pyrene	0.19 U	14.7	3.17
Dibenz(a,h)anthracene	0.19 U	4.47	1.09
Benzo(g,h,i)perylene	0.19 U	11.4	2.81
Total PAHs:	ND	575	92.7
Surrogate #1 %Recovery	84	107	103
Surrogate #2 %Recovery	83	100	96
Percent Solids	Not Applicable	91.0%	91.1%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960819-04 RGE061796-F28	RG960819-05 RGE061796-F29	RG960819-06 RGE061796-F30
MAHs:			
Benzene	0.59	0.18 J	1.13
Toluene	0.65	0.18 J	1.53
Ethylbenzene	0.09 J	0.19 U	0.26
m/p-Xylene	0.86	0.19 J	2.07
Styrene	0.34	0.19 U	0.95
o-Xylene	0.21	0.08 J	0.79
1,2,4-Trimethylbenzene	1.21	0.20	2.88
Total MAHs:	2.74 J	0.62 J	6.72
PAHs:			
Naphthalene	41.6	6.52	47.8
2-Methylnaphthalene	20.3	2.27	28.0
1-Methylnaphthalene	12.0	1.32	22.0
Acenaphthylene	18.6	1.90	40.7
Acenaphthene	2.73	0.58	9.44
Dibenzofuran	14.7	1.50	35.7
Fluorene	18.7	2.02	50.8
Phenanthrene	50.9	7.19	165
Anthracene	20.0	2.68	53.2
Fluoranthene	32.4	8.93	148
Pyrene	24.1	6.97	109
Benz(a)anthracene	17.7	6.26	72.0
Chrysene	14.8	4.96	61.1
Benzo(b)fluoranthene	8.66	2.96	48.4
Benzo(k)fluoranthene	11.3	3.89	36.9
Benzo(a)pyrene	12.3	4.17	55.3
Indeno(1,2,3-cd)pyrene	6.64	2.00	29.9
Dibenz(a,h)anthracene	2.15	0.78	6.61
Benzo(g,h,i)perylene	6.41	2.16	26.3
Total PAHs:	320	67.5	1,010
Surrogate #1 %Recovery	100	89	99
Surrogate #2 %Recovery	95	89	104
Percent Solids	86.9%	88.5%	89.5%

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

META

Monocyclic Aromatic Hydrocarbon (MAH) and Polycyclic Aromatic Hydrocarbon (PAH) Results for Rochester Gas Electric Soil Samples Received 5/22, 5/23, 5/29, 5/31, 6/11, 6/14, 6/19, and 6/20; in ppm (mg/kg, dry weight)

Lab ID / Field ID:	RG960820-01 RGE061796-W13	RG960619-04 DUP Laboratory Dupe	RG960820-SB Method Blank
MAHs:			
Benzene	0.64	0.59	0.21 U
Toluene	0.70	0.66	0.21 U
Ethylbenzene	0.22	0.10 J	0.21 U
m/p-Xylene	1.08	0.91	0.21 U
Styrene	0.40	0.37	0.21 U
o-Xylene	0.40	0.29	0.21 U
1,2,4-Trimethylbenzene	1.39	1.38	0.21 U
Total MAHs:	3.33	2.92 J	ND
PAHs:			
Naphthalene	26.8	59.4	0.21 U
2-Methylnaphthalene	15.1	25.1	0.21 U
1-Methylnaphthalene	9.19	14.4	0.21 U
Acenaphthylene	15.9	23.5	0.21 U
Acenaphthene	3.99	3.43	0.21 U
Dibenzofuran	14.0	18.3	0.21 U
Fluorene	19.3	23.0	0.21 U
Phenanthrene	57.8	63.5	0.21 U
Anthracene	23.2	23.7	0.21 U
Fluoranthene	48.6	41.3	0.21 U
Pyrene	40.9	30.5	0.21 U
Benz(a)anthracene	25.3	22.5	0.21 U
Chrysene	24.1	18.6	0.21 U
Benzo(b)fluoranthene	12.6	10.8	0.21 U
Benzo(k)fluoranthene	16.2	14.1	0.21 U
Benzo(a)pyrene	17.3	15.4	0.21 U
Indeno(1,2,3-cd)pyrene	9.08	8.19	0.21 U
Dibenz(a,h)anthracene	2.98	2.66	0.21 U
Benzo(g,h,i)perylene	7.17	6.74	0.21 U
Total PAHs:	375	407	ND
Surrogate #1 %Recovery	82	95	89
Surrogate #2 %Recovery	86	94	92
Percent Solids	92.0%	86.9%	Not Applicable

U = Not detected at quantitation limit shown

ND = Not detected

L = Coeluted with compound listed above

Total MAHs does not include 1,2,4-Trimethylbenzene.

Total PAHs does not include Dibenzofuran.

I = Interference

E = Estimated value, above calibration range

J = Estimated value

New York State Department of Environmental Conservation
Region 8 Office - Division of Hazardous Waste Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Telephone: (716) 226-2466

Michael D. Zagata
Commissioner

Renée Forgensi Davison
Regional Director

HAND DELIVERED

June 26, 1996

Mr. Kevin Hylton
Senior Environmental Analyst
Rochester Gas & Electric
89 East Avenue
Rochester, New York 14649

Dear Mr. Hylton:

RE: NYSDEC Split-Sample Results (May 10, 1996 sampling date)

Attached are the sample summary sheets for the samples F1, F2, TTW1, & TTW2. Please note the respective sample numbers on the attached sheets are B650F1, B650F2, B650W1, and B650W2. Each sample was analyzed using USEPA methods 8240 and 8270, and the sample results are in units of µg/Kg (ppb). These confirmatory sample results are well below the 1% total MAH and PAH cleanup level.

Please let me know if you have any questions.

Sincerely,

Todd M. Caffoe, P.E.
Environmental Engineer II
Division of Hazardous
Waste Remediation

attachment

cc: M.J. Peachey (E-mail)
M. O'Toole (E-Mail)
E. Obrecht (E-Mail)
R. Elliott
D. Napier

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.: B650F1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051

Sample wt/vol: 5.1 (g/mL) G Lab File ID: D8781

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 16 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
110-75-8	2-Chloroethylvinylether	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.: B650F1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051

Sample wt/vol: 5.1 (g/mL) G Lab File ID: D8781

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 16 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650F1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051

Sample wt/vol: 5.1 (g/mL) G Lab File ID: D8781

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 16 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	24.50	31	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F1

Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3343

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	U
111-44-4	bis(2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
100-51-6	Benzyl Alcohol	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	bis(2-Chloroethoxy)Methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	760	J
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-Methylphenol	2000	U
91-57-6	2-Methylnaphthalene	960	J
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	4800	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	4800	U
131-11-3	Dimethylphthalate	2000	U
208-96-8	Acenaphthylene	640	J
606-20-2	2,6-Dinitrotoluene	2000	U
99-09-2	3-Nitroaniline	4800	U
83-32-9	Acenaphthene	1700	J
51-28-5	2,4-Dinitrophenol	4800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3343

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-02-7	4-Nitrophenol	4800	U
132-64-9	Dibenzofuran	1800	J
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	3000	
100-01-6	4-Nitroaniline	4800	U
534-52-1	4,6-Dinitro-2-methylphenol	4800	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	4800	U
85-01-8	Phenanthrene	18000	E
120-12-7	Anthracene	5400	
86-74-8	Carbazole	630	J
84-74-2	Di-n-Butylphthalate	430	J
206-44-0	Fluoranthene	16000	
129-00-0	Pyrene	24000	E
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)Anthracene	12000	
218-01-9	Chrysene	9400	
117-81-7	bis(2-Ethylhexyl)Phthalate	190	J
117-84-0	Di-n-Octyl Phthalate	2000	U
205-99-2	Benzo(b)Fluoranthene	8200	
207-08-9	Benzo(k)Fluoranthene	8800	
50-32-8	Benzo(a)Pyrene	8300	
193-39-5	Indeno(1,2,3-cd)Pyrene	4000	
53-70-3	Dibenz(a,h)Anthracene	2600	
191-24-2	Benzo(g,h,i)Perylene	3900	

(1) - Cannot be separated from Diphenylamine

1F

DEC SAMPLE NO.

B650F1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3343

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	12-34-22	Aldol Condensation Product	4.72	97000	ABJN
2.		DIMETHYLNAPHTHALENE ISOMER	16.97	730	J
3.		DIMETHYLNAPHTHALENE ISOMER	17.23	1000	J
4.		TRIMETHYLNAPHTHALENE ISOMER	19.34	810	J
5.		UNKNOWN	20.26	670	J
6.	73-20-538	4-Methyldibenzofuran	20.54	1100	JN
7.		UNKNOWN PAH	24.51	540	J
8.		UNKNOWN PAH	24.59	440	J
9.		UNKNOWN PAH	24.86	850	J
10.	24-34-25	Benzo[b]naphtho[2,3-d]furan	27.82	1000	JN
11.		UNKNOWN PAH	28.52	2400	J
12.		UNKNOWN PAH	28.71	1200	J
13.		UNKNOWN PAH	29.89	950	J
14.		UNKNOWN PAH	30.55	850	J
15.		UNKNOWN PAH	32.50	830	J
16.		UNKNOWN PAH	35.13	2800	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F1DL

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3358

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/25/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7900	U
111-44-4	bis(2-Chloroethyl)Ether	7900	U
95-57-8	2-Chlorophenol	7900	U
541-73-1	1,3-Dichlorobenzene	7900	U
106-46-7	1,4-Dichlorobenzene	7900	U
100-51-6	Benzyl Alcohol	7900	U
95-50-1	1,2-Dichlorobenzene	7900	U
95-48-7	2-Methylphenol	7900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	7900	U
106-44-5	4-Methylphenol	7900	U
621-64-7	N-Nitroso-Di-n-Propylamine	7900	U
67-72-1	Hexachloroethane	7900	U
98-95-3	Nitrobenzene	7900	U
78-59-1	Isophorone	7900	U
88-75-5	2-Nitrophenol	7900	U
105-67-9	2,4-Dimethylphenol	7900	U
111-91-1	bis(2-Chloroethoxy)Methane	7900	U
120-83-2	2,4-Dichlorophenol	7900	U
120-82-1	1,2,4-Trichlorobenzene	7900	U
91-20-3	Naphthalene	720	DJ
106-47-8	4-Chloroaniline	7900	U
87-68-3	Hexachlorobutadiene	7900	U
59-50-7	4-Chloro-3-Methylphenol	7900	U
91-57-6	2-Methylnaphthalene	690	DJ
77-47-4	Hexachlorocyclopentadiene	7900	U
88-06-2	2,4,6-Trichlorophenol	7900	U
95-95-4	2,4,5-Trichlorophenol	19000	U
91-58-7	2-Chloronaphthalene	7900	U
88-74-4	2-Nitroaniline	19000	U
131-11-3	Dimethylphthalate	7900	U
208-96-8	Acenaphthylene	620	DJ
606-20-2	2,6-Dinitrotoluene	7900	U
99-09-2	3-Nitroaniline	19000	U
83-32-9	Acenaphthene	1700	DJ
51-28-5	2,4-Dinitrophenol	19000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F1DL

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3358

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/25/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-02-7	4-Nitrophenol	19000	U
132-64-9	Dibenzofuran	1600	DJ
121-14-2	2,4-Dinitrotoluene	7900	U
84-66-2	Diethylphthalate	7900	U
7005-72-3	4-Chlorophenyl-phenylether	7900	U
86-73-7	Fluorene	3000	DJ
100-01-6	4-Nitroaniline	19000	U
534-52-1	4,6-Dinitro-2-methylphenol	19000	U
86-30-6	N-Nitrosodiphenylamine (1)	7900	U
101-55-3	4-Bromophenyl-phenylether	7900	U
118-74-1	Hexachlorobenzene	7900	U
87-86-5	Pentachlorophenol	19000	U
85-01-8	Phenanthrene	21000	D
120-12-7	Anthracene	6000	DJ
86-74-8	Carbazole	670	DJ
84-74-2	Di-n-Butylphthalate	430	DJ
206-44-0	Fluoranthene	21000	D
129-00-0	Pyrene	25000	D
85-68-7	Butylbenzylphthalate	7900	U
91-94-1	3,3'-Dichlorobenzidine	7900	U
56-55-3	Benzo(a)Anthracene	11000	D
218-01-9	Chrysene	10000	D
117-81-7	bis(2-Ethylhexyl)Phthalate	7900	U
117-84-0	Di-n-Octyl Phthalate	7900	U
205-99-2	Benzo(b)Fluoranthene	16000	D
207-08-9	Benzo(k)Fluoranthene	7900	U
50-32-8	Benzo(a)Pyrene	9600	D
193-39-5	Indeno(1,2,3-cd)Pyrene	3700	DJ
53-70-3	Dibenz(a,h)Anthracene	2500	DJ
191-24-2	Benzo(g,h,i)Perylene	3300	DJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650F1DL

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44051DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3358

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/25/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	12-34-22	Aldol Condensation Product	4.61	81000	ABJN
2.		UNKNOWN PAH	24.53	2400	J
3.		UNKNOWN PAH	24.63	3000	J
4.		UNKNOWN PAH	24.75	1800	J
5.		UNKNOWN PAH	24.89	5800	J
6.		UNKNOWN PAH	26.33	1600	J
7.	24-34-25	Benzo[b]naphtho[2,3-d]furan	27.85	1700	JN
8.		UNKNOWN PAH	28.54	4800	J
9.		UNKNOWN PAH	28.75	2600	J
10.		UNKNOWN PAH	28.85	3400	J
11.		UNKNOWN PAH	29.91	1700	J
12.	82-05-3	7H-Benz[de]anthracen-7-one	30.19	2000	JN
13.		UNKNOWN	30.60	1900	J
14.		UNKNOWN PAH	35.16	6100	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.: B650F2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8794

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 15 Date Analyzed: 05/16/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
110-75-8	2-Chloroethylvinylether	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8794

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 15 Date Analyzed: 05/16/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650F2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8794

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 15 Date Analyzed: 05/16/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3340

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	1900	
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	1200	
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	810	
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	260	J
51-28-5	2,4-Dinitrophenol	940	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3340

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	940	
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	1500	
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	4600	E
120-12-7	Anthracene	1200	
86-74-8	Carbazole	410	
84-74-2	Di-n-Butylphthalate	390	U
206-44-0	Fluoranthene	3700	E
129-00-0	Pyrene	3600	E
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)Anthracene	2000	
218-01-9	Chrysene	1600	
117-81-7	bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	1500	
207-08-9	Benzo(k)Fluoranthene	1300	
50-32-8	Benzo(a)Pyrene	1600	
193-39-5	Indeno(1,2,3-cd)Pyrene	640	
53-70-3	Dibenz(a,h)Anthracene	330	J
191-24-2	Benzo(g,h,i)Perylene	600	

(1) - Cannot be separated from Diphenylamine

1F

DEC SAMPLE NO.

B650F2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3340

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.29	1800	J
2.	12-34-22	Aldol Condensation Product	5.15	43000	ABJN
3.		UNKNOWN	6.58	1800	J
4.		UNKNOWN	7.40	270	J
5.	90-12-0	1-Methylnaphthalene	15.31	220	JN
6.		DIMETHYLNAPHTHALENE ISOMER	16.98	270	J
7.		DIMETHYLNAPHTHALENE ISOMER	17.24	510	J
8.		UNKNOWN PAH	20.54	220	J
9.	13-26-50	Dibenzothiophene	22.56	1300	JN
10.		UNKNOWN PAH	24.52	1600	J
11.		UNKNOWN PAH	24.61	1500	J
12.		UNKNOWN PAH	24.72	920	J
13.		UNKNOWN	24.87	2200	J
14.		UNKNOWN PAH	25.48	1400	J
15.		UNKNOWN PAH	26.32	960	J
16.		UNKNOWN PAH	27.03	1200	J
17.	24-34-25	Benzo[b]naphtho[2,3-d]furan	27.82	220	JN
18.		UNKNOWN PAH	28.54	390	J
19.		UNKNOWN PAH	28.73	250	J
20.		UNKNOWN PAH	28.83	180	J
21.		UNKNOWN PAH	35.13	800	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650F2DL

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3349

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	780	U
111-44-4	bis(2-Chloroethyl)Ether	780	U
95-57-8	2-Chlorophenol	780	U
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
100-51-6	Benzyl Alcohol	780	U
95-50-1	1,2-Dichlorobenzene	780	U
95-48-7	2-Methylphenol	780	U
108-60-1	2,2'-oxybis(1-Chloropropane)	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-Di-n-Propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	780	U
105-67-9	2,4-Dimethylphenol	780	U
111-91-1	bis(2-Chloroethoxy)Methane	780	U
120-83-2	2,4-Dichlorophenol	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
91-20-3	Naphthalene	1900	D
106-47-8	4-Chloroaniline	780	U
87-68-3	Hexachlorobutadiene	780	U
59-50-7	4-Chloro-3-Methylphenol	780	U
91-57-6	2-Methylnaphthalene	1200	D
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	780	U
208-96-8	Acenaphthylene	750	DJ
606-20-2	2,6-Dinitrotoluene	780	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	270	DJ
51-28-5	2,4-Dinitrophenol	1900	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.: B650F2DL

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3349

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	930	D
121-14-2	2,4-Dinitrotoluene	780	U
84-66-2	Diethylphthalate	780	U
7005-72-3	4-Chlorophenyl-phenylether	780	U
86-73-7	Fluorene	1500	D
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	780	U
101-55-3	4-Bromophenyl-phenylether	780	U
118-74-1	Hexachlorobenzene	780	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	4700	D
120-12-7	Anthracene	1400	D
86-74-8	Carbazole	330	DJ
84-74-2	Di-n-Butylphthalate	780	U
206-44-0	Fluoranthene	3400	D
129-00-0	Pyrene	4500	D
85-68-7	Butylbenzylphthalate	780	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)Anthracene	1800	D
218-01-9	Chrysene	1600	D
117-81-7	bis(2-Ethylhexyl)Phthalate	780	U
117-84-0	Di-n-Octyl Phthalate	780	U
205-99-2	Benzo(b)Fluoranthene	2600	D
207-08-9	Benzo(k)Fluoranthene	780	U
50-32-8	Benzo(a)Pyrene	1700	D
193-39-5	Indeno(1,2,3-cd)Pyrene	760	DJ
53-70-3	Dibenz(a,h)Anthracene	450	DJ
191-24-2	Benzo(g,h,i)Perylene	660	DJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650F2DL

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44050DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3349

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	12-34-22	Aldol Condensation Product	4.94	110000	ABJN
2.	90-12-0	1-Methylnaphthalene	15.30	880	JN
3.		DIMETHYLNAPHTHALENE ISOMER	16.97	330	J
4.		DIMETHYLNAPHTHALENE ISOMER	17.23	370	J
5.		DIMETHYLNAPHTHALENE ISOMER	17.58	160	J
6.		METHYLETHYLNAPHTHALENE ISOME	19.34	200	J
7.		UNKNOWN	19.67	180	J
8.		UNKNOWN	20.54	250	J
9.		UNKNOWN PAH	24.86	290	J
10.		UNKNOWN PAH	28.52	670	J
11.		UNKNOWN PAH	28.72	490	J
12.		UNKNOWN PAH	28.82	310	J
13.		UNKNOWN ALKANE	28.92	290	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44052

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8782

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 13 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
110-75-8	2-Chloroethylvinylether	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44052

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8782

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 13 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650W1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44052

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8782

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 13 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44052

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3344

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	740	
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	920	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	500	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	920	U
83-32-9	Acenaphthene	820	
51-28-5	2,4-Dinitrophenol	920	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W1

Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44052

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3344

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	1200	
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	1700	
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-methylphenol	920	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	12000	
120-12-7	Anthracene	2900	
86-74-8	Carbazole	860	
84-74-2	Di-n-Butylphthalate	380	U
206-44-0	Fluoranthene	10000	
129-00-0	Pyrene	15000	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)Anthracene	5500	
218-01-9	Chrysene	4900	
117-81-7	bis(2-Ethylhexyl)Phthalate	380	U
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	4400	
207-08-9	Benzo(k)Fluoranthene	4300	
50-32-8	Benzo(a)Pyrene	4600	
193-39-5	Indeno(1,2,3-cd)Pyrene	2400	
53-70-3	Dibenz(a,h)Anthracene	1100	
191-24-2	Benzo(g,h,i)Perylene	2600	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650W1

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44052

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3344

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	12-34-22	Aldol Condensation Product	4.73	45000	ABJN
2.		DIMETHYLNAPHTHALENE ISOMER	17.23	400	J
3.	73-20-538	4-Methyldibenzofuran	20.55	460	JN
4.		UNKNOWN	24.85	380	J
5.		UNKNOWN PAH	28.50	1600	J
6.		UNKNOWN PAH	28.71	730	J
7.		UNKNOWN PAH	28.81	1200	J
8.		BENZONAPHTHOTHIOPHENE ISOMER	30.44	540	J
9.		UNKNOWN PAH	30.55	770	J
10.		UNKNOWN PAH	35.11	3300	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44053

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8783

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 16 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
110-75-8	2-Chloroethylvinylether	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	14	
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44053

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8783

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 16 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650W2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44053

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8783

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: not dec. 16 Date Analyzed: 05/15/96

GC Column: VOCOL ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44053

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3345

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	62	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	950	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	950	U
83-32-9	Acenaphthene	43	J
51-28-5	2,4-Dinitrophenol	950	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DEC SAMPLE NO.

B650W2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44053

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3345

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-02-7	4-Nitrophenol	950	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	53	J
100-01-6	4-Nitroaniline	950	U
534-52-1	4,6-Dinitro-2-methylphenol	950	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	950	U
85-01-8	Phenanthrene	590	
120-12-7	Anthracene	170	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	390	U
206-44-0	Fluoranthene	920	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)Anthracene	550	
218-01-9	Chrysene	490	
117-81-7	bis(2-Ethylhexyl)Phthalate	390	U
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	840	
207-08-9	Benzo(k)Fluoranthene	390	U
50-32-8	Benzo(a)Pyrene	460	
193-39-5	Indeno(1,2,3-cd)Pyrene	290	J
53-70-3	Dibenz(a,h)Anthracene	110	J
191-24-2	Benzo(g,h,i)Perylene	330	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

DEC SAMPLE NO.: B650W2

Lab Name: E & E INC. Contract: C003181

Lab Code: EANDE Case No.: RH896 SAS No.: SDG No.: 05210

Matrix: (soil/water) SOIL Lab Sample ID: 44053

Sample wt/vol: 30.0 (g/mL) G Lab File ID: G3345

Level: (low/med) LOW Date Received: 05/13/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/14/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/24/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	12-34-22	Aldol Condensation Product	5.17	36000	ABJN
2.		UNKNOWN ALKANE	21.40	140	J
3.		UNKNOWN ALKANE	24.14	140	J
4.		UNKNOWN	24.85	160	J
5.		UNKNOWN ALKANE	25.42	220	J
6.		UNKNOWN PAH	28.51	180	J
7.		UNKNOWN ALKANE	28.94	200	J
8.		UNKNOWN ALKANE	30.01	140	J
9.		UNKNOWN ALKANE	32.03	160	J
10.		UNKNOWN ALKANE	32.97	140	J
11.		UNKNOWN ALKANE	33.90	180	J
12.		UNKNOWN ALKANE	34.79	240	J
13.		UNKNOWN ALKANE	35.14	580	J
14.		UNKNOWN ALKANE	36.64	240	J

APPENDIX I

PHASE III BACKFILL MATERIAL INFORMATION

1. VALLEY SAND AND GRAVEL MINING PERMIT
2. BORROW SOURCE TOPSOIL DATA
3. STOCKPILED TOPSOIL SAMPLING RESULTS

Original to File

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414

Langdon Marsh
Commissioner

November 3, 1994

RECEIVED
NOV 11 1994

Valley Sand & Gravel
94 River Road
Scottsville, NY 14546

RE: NYS Mine File #8033-30-0005
RCIS #8-2422-00022/00001-0

Dear Sir:

Enclosed is your mining permit. This permit should be posted at the mine site at all times.

The second page of this permit contains special conditions which apply specifically to this site. If you feel a permit condition should not be required, a letter stating the reason why must be submitted within 30 days of receipt of this permit. A determination will then be made and you will be informed of the decision.

The amount of reclamation bond required for your operations can be altered at any time during this permit term. Therefore, to avoid increases in the amount of the bond, you should reclaim mined out areas whenever possible.

If I can be of any further assistance, please do not hesitate to call me at 716-226-2466 extension 332.

Sincerely,

Steven M. Army
Mined Land Reclamation Specialist

jma

Enclosure
cc: Town Supervisor

printed on recycled paper

95-20-6 (10/88)-25c NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DEC PERMIT NUMBER
8-2422-00022/00001-0

FACILITY/PROGRAM NUMBER(S)
8033-30-0005

PERMIT
Under the Environmental Conservation Law (ECL)

EFFECTIVE DATE
10/28/94

EXPIRATION DATE
10/28/99

TYPE OF PERMIT (Check All Applicable Boxes)
☐ New ☒ Renewal ☒ Modification ☐ Permit to Construct ☐ Permit to Operate

- ☐ Article 15, Title 5: Protection of Water
- ☐ Article 15, Title 15: Water Supply
- ☐ Article 15, Title 15: Water Transport
- ☐ Article 15, Title 15: Long Island Wells
- ☐ Article 15, Title 27: Wild, Scenic and Recreational Rivers
- ☐ 6NYCRR 608: Water Quality Certification
- ☐ Article 17, Titles 7, 8: SPDES
- ☐ Article 19: Air Pollution Control
- ☒ T Article 23, Title 27: Mined Land Reclamation
- ☐ Article 24: Freshwater Wetlands
- ☐ Article 25: Tidal Wetlands
- ☐ Article 27, Title 7; 6NYCRR 360: Solid Waste Management
- ☐ Article 27, Title 9, 6NYCRR 373 Hazardous Waste Management
- ☐ Article 34: Coastal Erosion Management
- ☐ Article 36: Floodplain Management
- ☐ Articles 1, 3, 17, 19, 27, 37, 6NYCRR 380: Radiation Control
- ☐ Other: _____

PERMIT ISSUED TO
Valley Sand & Gravel

TELEPHONE NUMBER
(716) 889-3078

ADDRESS OF PERMITTEE
94 River Road, Scottsville, NY 14546

CONTACT PERSON FOR PERMITTED WORK
Richard C. Mack

TELEPHONE NUMBER
(716) 889-3078

NAME AND ADDRESS OF PROJECT/FACILITY
Valley Sand & Gravel - Scottsville Plant

LOCATION OF PROJECT/FACILITY
94 River Road

COUNTY	TOWN/CITY/VILLAGE	WATERCOURSE/WETLAND NO	NYTM COORDINATES
Livingston	Caledonia		E _____ N _____

DESCRIPTION OF AUTHORIZED ACTIVITY

Permit to mine unconsolidated material from a 158.2 acre permit term area, within a 268.2 acre Life of Mine.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified (See Reverse Side) and any Special Conditions included as part of this permit.

PERMIT ADMINISTRATOR
A.W. Butler

ADDRESS 6274 E. Avon-Lima Road
Avon, NY 14414

AUTHORIZED SIGNATURE Albert W. Butler

DATE 11/7/94

ADDITIONAL GENERAL CONDITIONS FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

9. Any required reclamation bond or other surety, in an amount determined by the Department, shall be maintained in full force and effect during the mining operation. Such a bond or other surety shall not be terminated until the reclamation of the mined area is approved by the Department in writing.

10. The permittee shall not deviate or depart from the approved mined land use plan without approval by the Department of an alteration or modification thereto.

11. If the permittee decides to discontinue operation, a termination notice must be filed 60 days prior to the scheduled temporary or permanent cessation of mining.

12. The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when notification is provided, be it written or verbal, at least 24 hours prior to such inspection.

13. If any archaeological or structural remains are encountered during excavation, the permittee must immediately cease, or cause to cease, all work in the area of the remains and notify the NYSDEC Regional Office. Work shall not resume until written permission to do so has been received from the Department.

14. Unless expressly provided for, the issuance of this permit does not apply to any structures contained on the plans or in the specifications, nor does this permit apply to safety aspects of the operation and/or reclamation plan.

15. The enclosed permit and permit signature slip conspicuously posted in a publicly accessible location at the project site. They must be visible, legible and protected from the elements at all times.

16. All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or his agent as part of the permit application.

Such approved plans were prepared by Approved by S. Army

on Oct. 24, 1994

(See Special Condition #1)

SPECIAL CONDITIONS

1. The Plans stamped Approved by S. Army on October 24, 1994, consist of the following items:

   * Mining Permit Application Form dated June 20, 1994.
   * Application for Permit Transfer dated June 20, 1994.
   * Organizational Report Form dated June 20, 1994.
   * Combined Renewal Application for Permit to Mine Amended Mined Land Use Plan and Additional Information to Mined Land Use Plan dated September, 1993.
   * Mining Plan Map, Sheet 1 of 1, DWG. NO. 2M9314, dated March 1993.
   * Reclamation Plan Map, Sheet 1 of 1, DWG. NO. 2M9314_1, dated March 1993.
   * Final Grade Profiles dated September 17, 1993.
   * Silt Fence and Straw Bale Detail Sheets.
   * Additional Information to Renewal/Modification Permit dated November 1993.

DEC PERMIT NUMBER
8-2422-00022/00001-0

DEC FACILITY NUMBER
8033-30-0005

FACT TECHNICAL SERVICES, INC.
TESTING AND INSPECTION
407 Lombard Street • Rochester, N Y 14606
Office 716-254-8232

January 17, 1989
Job No. 837-90008-1
Lab No. 1201
Your PO# 4754

Valley Sand & Gravel Inc.
780 West Ridge Road
Rochester, NY 14615

Attn: Mr. Dick Ash

Re: Monroe Livingston Landfill

Object: Determine the moisture density relationship and the coefficient of permeability on a sample of sandy silt w/some gravel delivered to the PSI Fact Technical Services Laboratory on January 3, 1989.

Data:

Sample No.	1201
Sample Density, lb/cf.:	126.1
Moisture, %:	5.4
Maximum Density, lb/cf.:	140.1
Optimum Moisture, %:	6.0
Compaction, %:	90.0
Coefficient of Permeability, cm/sec.:	1.56×10^{-6}

Remarks: The moisture density relationship curve is attached.

If you need additional information or if we can be of any further service please contact this office.

Very truly yours,

PSI FACT TECHNICAL SERVICES DIVISION

David M. Abraham

David M. Abraham
Division Manager

kep

FACT TECHNICAL SERVICES, INC.
TESTING AND INSPECTION
407 Lombard Street • Rochester N Y 14606
Office 716-254-8232
Telex 978-462

MOISTURE DENSITY RELATIONSHIP CURVE

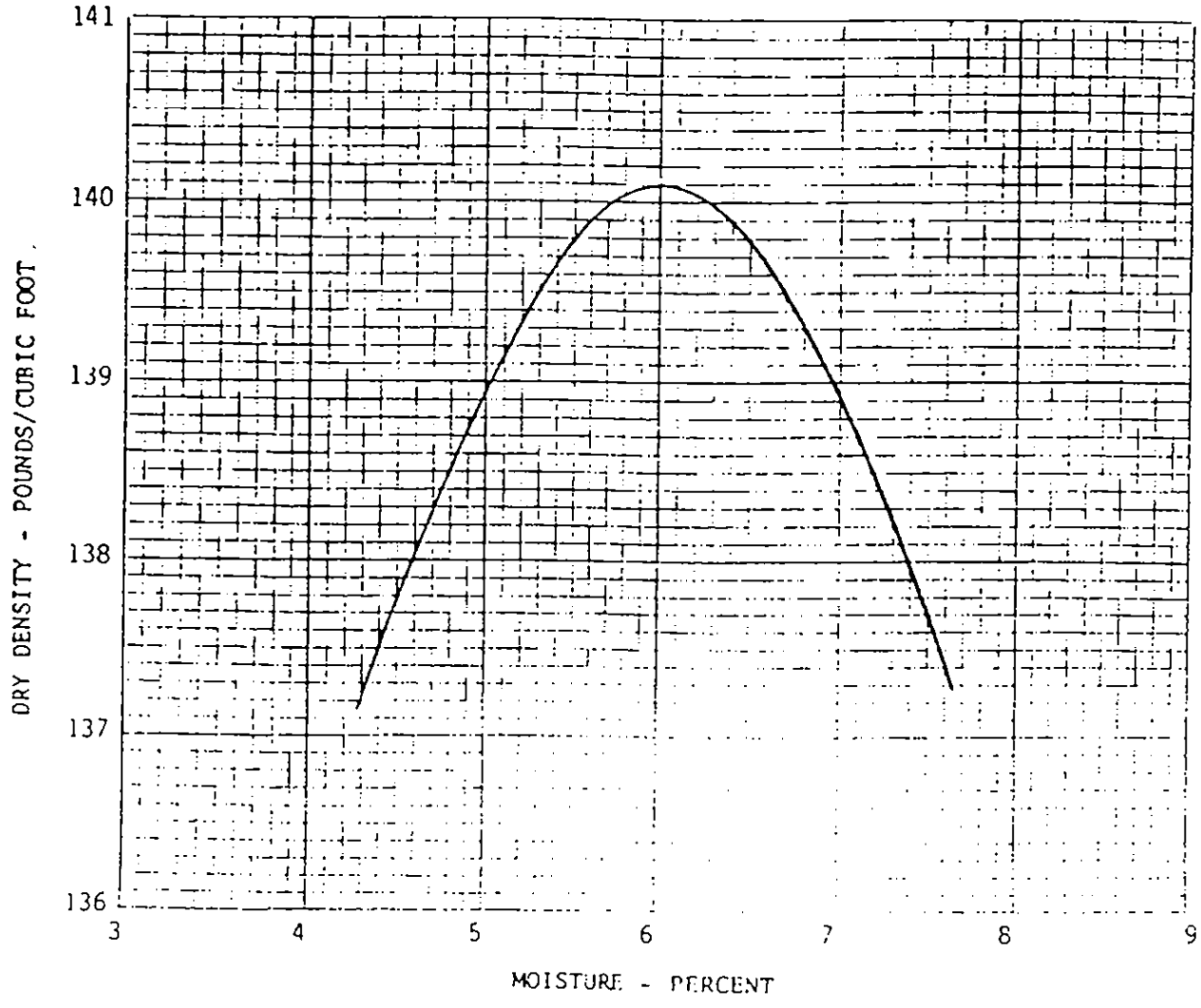
Valley Sand & Gravel Inc.
780 West Ridge Road
Rochester, NY 14615

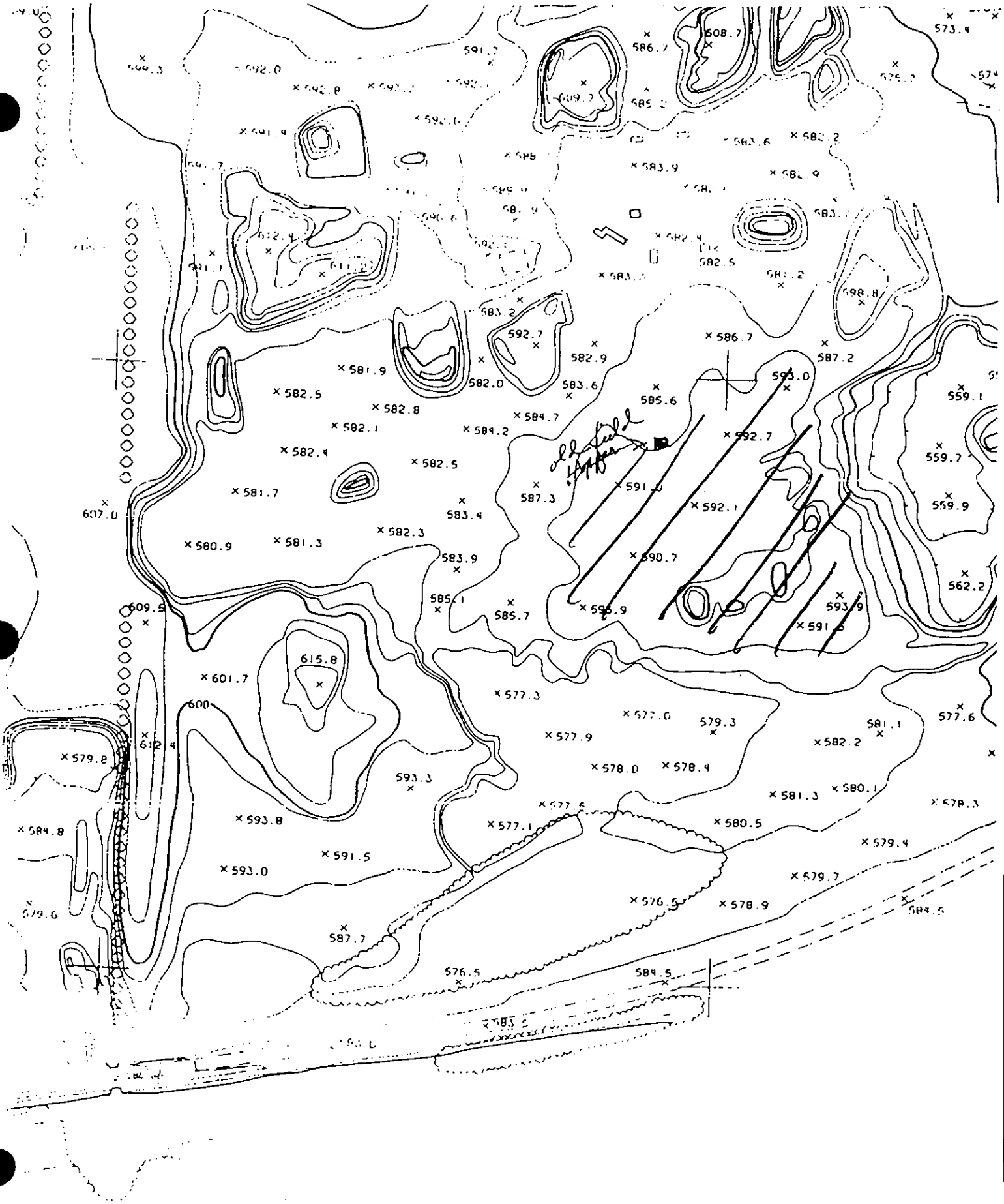
Attn: Mr. Dick Ash

RE: Monroe Livingston Landfill

JOB NO. 837-90008-1 LAB NO. 1201

METHOD: ASTM D 1557 C
MATERIAL: Sandy silt w/some gravel
SOURCE: Scottsville Pit
MAXIMUM DRY DENSITY, (lbs/cf): 140.1
OPTIMUM MOISTURE, (%): 6.0
DATE SAMPLED: January 3, 1989

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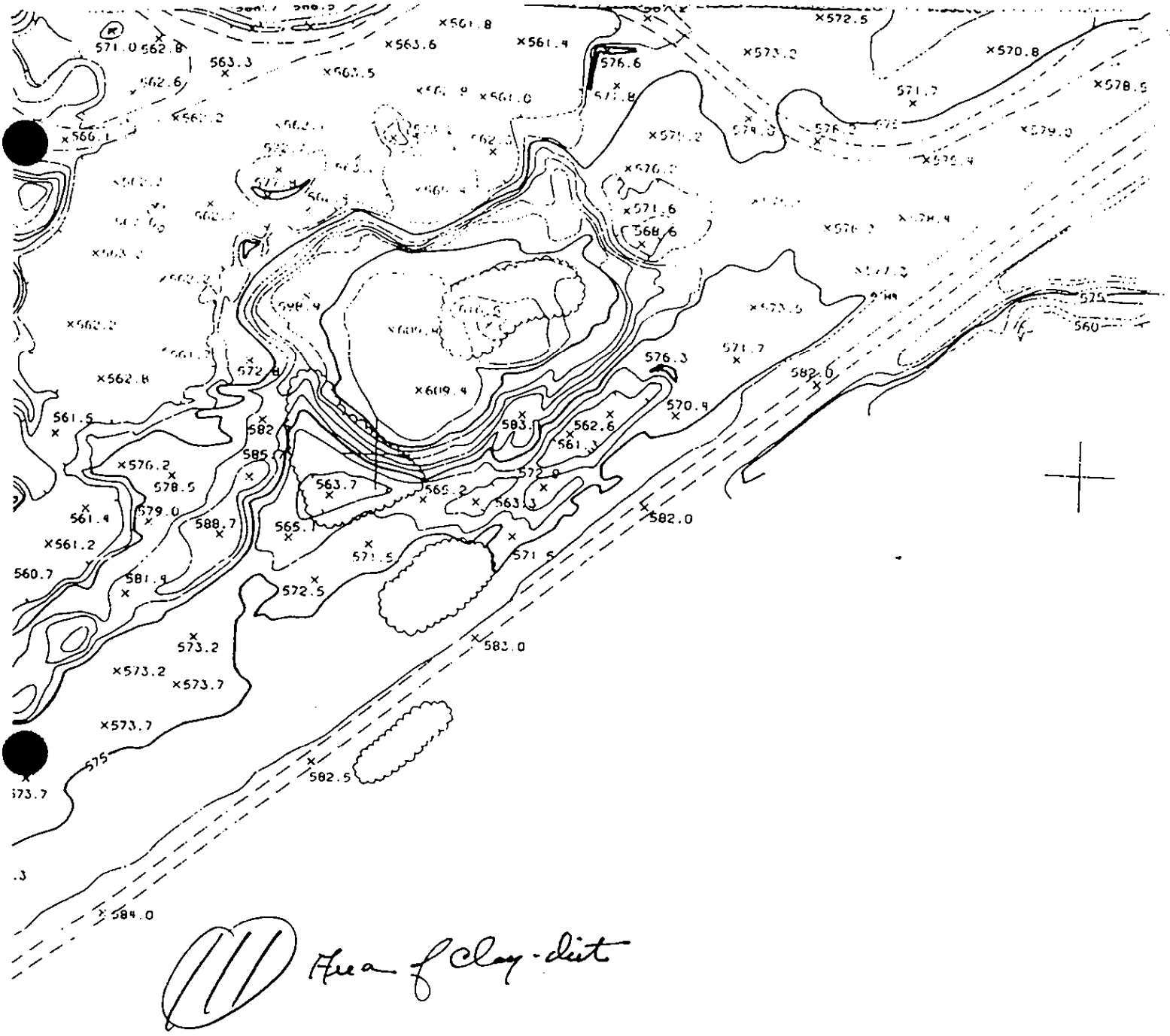

Area of clay-dist

Upstate Laboratories inc.

Shipping: 6034 Corporate Drive • East Syracuse, New York 13057 • (315) 437-0255
Mailing: Box 289 • Syracuse, New York 13206
Southern Region (607) 724-0478
Western Region (716) 436-9070
Eastern Region (518) 459-3134

July 1, 1992

Mr. Kevin Hylton
Rochester Gas and Electric Corporation
89 East Avenue
Rochester, New York 14649

Re: Analysis Report #070192011 - Sta 3 NSS Soil Sampling

Dear Mr. Hylton:

Please find enclosed the results for your soil samples which were received on June 11, 1992.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

AJS/jd

Enclosure: report

cc/enc: N. Scala, ULI
file

Note: Faxed results were given to your office on 6/29/92. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 07/01/92

Upstate Laboratories, Inc.
Analysis Results
Report Number: 070192011
Client I.D.: ROCHESTER GAS & ELECTRIC

APPROVAL: AJS
QC: RO
Lab I.D.: 10170
Sampled by: Client

ID:16792006 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 1 6/11/92 1530H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	<1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	1mg/kg	
Pyrene	1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

ID:16792007 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 2 6/11/92 1530H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	<1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	<1mg/kg	
Pyrene	<1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

All results are on an as rec.d basis unless otherwise stated.

DATE: 07/01/92

Upstate Laboratories, Inc.
Analysis Results
Report Number: 070192011
Client I.D.: ROCHESTER GAS & ELECTRIC

APPROVAL: _GS_
QC: _RO_ _ _
Lab I.D.: 10170
Sampled by: Client

ID:16792008 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 3 6/11/92 1530H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	2mg/kg	
Pyrene	1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

ID:16792009 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 4 6/11/92 1530H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	<1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	1mg/kg	
Pyrene	<1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

All results are on an as rec.d basis unless otherwise stated.

DATE: 07/01/92

Upstate Laboratories, Inc.
Analysis Results
Report Number: 070192011
Client I.D.: ROCHESTER GAS & ELECTRIC

APPROVAL: AJS
QC: RO
Lab I.D.: 10170
Sampled by: Client

ID:16792010 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 5 6/11/92 1530H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	1mg/kg	
Pyrene	1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

:16792011 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 6 6/11/92 1530H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	<1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	<1mg/kg	
Pyrene	<1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

All results are on an as rec.d basis unless otherwise stated.

DATE: 07/01/92

Upstate Laboratories, Inc.
Analysis Results
Report Number: 070192011
Client I.D.: ROCHESTER GAS & ELECTRIC

APPROVAL: QJS
QC: RO
Lab I.D.: 10170
Sampled by: Client

ID:16792012 Mat:Soil STA 3 NSS SOIL SAMPLING NSS 7 6/11/92 1545H G

PARAMETERS	RESULTS	KEY
PNA (EPA 8270)		
Naphthalene	<1mg/kg	
Acenaphthylene	<1mg/kg	
Acenaphthene	<1mg/kg	
Fluorene	<1mg/kg	
Phenanthrene	<1mg/kg	
Anthracene	<1mg/kg	
Fluoranthene	1mg/kg	
Pyrene	<1mg/kg	
Chrysene	<1mg/kg	
Benzo(a)Anthracene	<1mg/kg	
Benzo(b)Fluoroanthene	<1mg/kg	
Benzo(k)Fluoranthene	<1mg/kg	
Benzo(a)Pyrene	<1mg/kg	
Indeno(1,2,3-cd)Pyrene	<2mg/kg	
Dibenzo(a,h)Anthracene	<2mg/kg	
Benzo(ghi)Perylene	<2mg/kg	

All results are on an as rec.d basis unless otherwise stated.

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 MATRIX INTERFERENCE
3 PRESENT IN BLANK
4 INSUFFICIENT SAMPLE
5 SAMPLE DILUTED
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 BDL(BELOW DETECTION LIMITS)
9 MDL(METHOD DETECTION LIMITS)
10 ADL(AVERAGE DETECTION LIMITS)
11 PQL(PRACTICAL QUANTITATION LIMIT)
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE OR VALUES WITHIN EXPERIMENTAL ERROR
14 PPM(PARTS PER MILLION)
15 MG/L(MILLIGRAMS PER LITER)
16 UG/L(MICROGRAMS PER LITER), PPB(PARTS PER BILLION)
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS/TOTAL XYLENES INCLUDE O, M, AND P
19 CALCULATION BASED ON DRY WEIGHT
20 SAMPLE DILUTED/TOTAL XYLENES INCLUDE O, M, AND P
21 TOTAL XYLENES INCLUDE O, M, AND P/NON-POTABLE WATER SOURCE
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS/BLANK CORRECTED
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 FIELD PARAMETER TO BE PROVIDED ON DISC
29 TOTAL XYLENES INCLUDE O, M, AND P
30 METHOD PERFORMANCE STUDY HAS NOT BEEN COMPLETED/ND(NON-DETECTED)
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 SAMPLE WEATHERED
33 NON-POTABLE WATER SOURCE
34 INDIVIDUAL AROCLORS DO NOT CARRY A DETECTION LIMIT BUT ARE INCLUSIVE TO THE TOTAL PCB CONTENT
35 TOTAL XYLENES INCLUDE O, M, AND P/NON-POTABLE WATER SOURCE/SAMPLE DILUTED
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY

R0601192219-25

16792006-12

UPSTATE LABORATORIES, INC.

call with preliminary Numbers

CHAIN OF CUSTODY RECORD

DUE DATE: 7/6 Hard Verbals

CLIENT: RG&E Sunset Rd Rochester NY 14623 Kevin Hylton 724-8428

PROJECT NAME: Sta. 3 NSS Soil Sampling

SAMPLE NOS.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PNA's	Soil
~~NSS1~~ 4	6/11/92	1530		X	NSS 1	(1)	Y	
~~NSS2~~ 7				X	NSS 2	(1)	Y	
~~NSS3~~ 8				X	NSS 3	(1)	Y	
~~NSS4~~ 9				X	NSS 4	(1)	Y	
~~NSS5~~ 10				X	NSS 5	(1)	Y	
~~NSS6~~ 11				X	NSS 6	(1)	Y	
NSS7 6		1545		X	NSS 7	(1)	Y	

Sampled by: (Signature) John J Rell	Date/Time 6-11-92 1607	Received by: (Signature)	Relinquished by: (Signature) John J Rell	Date/Time 6-11-92 1607	Received by: (Signature) Holley McElroy
Relinquished by: (Signature) Holley McElroy	Date/Time 6/12/92 11:30	Received by: (Signature) Michael Pelgen	Relinquished by: (Signature) Michael Pelgen	Date/Time 6/12/92 11:15	Received by: (Signature) Michelle Colwell
Relinquished by: (Signature) Michelle Colwell	Date/Time 6/12 1200	Received for Laboratory by: (Signature) Kimberly Catlist	Date/Time 6/12/92 1200	Remarks Client D.O.	

WITNESS: _____ DATE/TIME: _____

WEATHER CONDITIONS: _____

Pooler Enterprises, Inc

Post-It® Fax Note 7671	Date 8/12	# of pages ▶ 1
To Brian Carey	From Dick Mack	
Co./Dept. Haux-Daniel	Co. KBH Const	
Phone #	Phone #	
Fax # 634-1881	Fax # 889-1219	

August 9, 1996

Independent Material Haulers
115 W. River Road
Scottsville, New York 14546

Dear Cathy:

Per your request.

The topsoil pile on Jefferson road has been approved for use in Durand Eastman Park for the County. Also the Hury Construction Co. has had it tested for use on NYS DOT projects they are currently working on.

I am sending you a copy of the topsoil report which we have had done privately and which we supply to all vendors upon request.

If you need additional information or if I can be of further help please do not hesitate to call.

Sincerely,

Gregory C. [illegible], Secretary

Enclosure

ORGANIX

ORGANIC TREE AND TURF THERAPY

Customer: Pooler Enterprises, Inc.
P.O. Box 436
Pittsford, N.Y. 14534
Concerning: attn. Mr. Greg Galvin

8 March '96

[illegible]: 21329

[illegible]: Soil sample composited from the site of topsoil stockpile labeled as Allens Creek supply areas.

[illegible]: This soil is 83% fine and very fine grained sand, 27% clay and 10% silt. Organic matter in the form of fine fibrous roots as record pulpy debris. Inorganic material is few stones to 3/4" dia. this soil is moderately-easy to break-apart when dry. The over-all soil moisture retention is above-high.

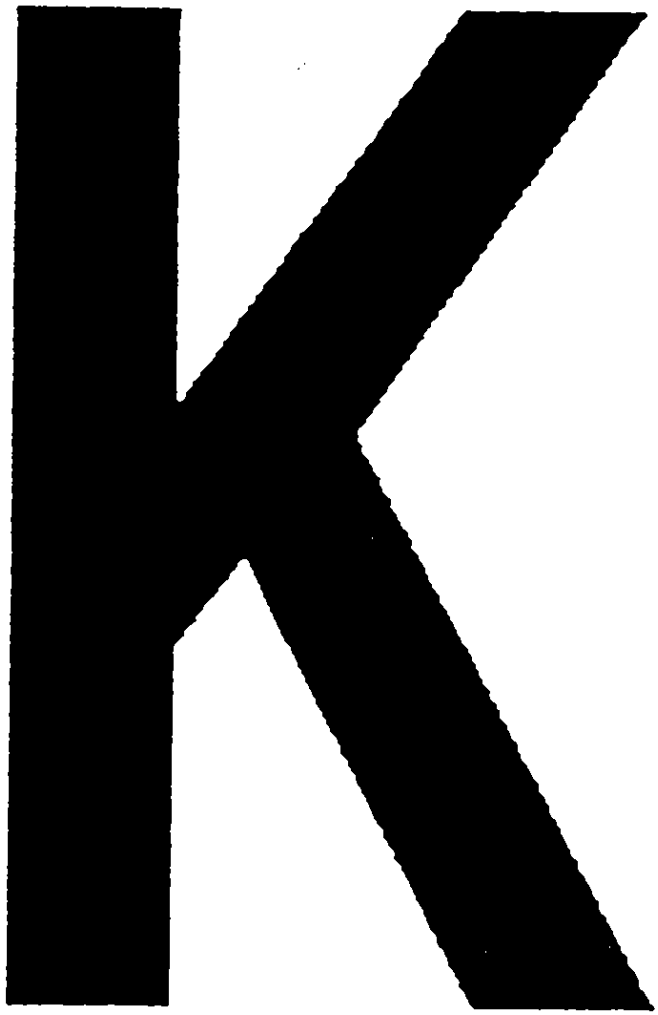
pH 7.40
[illegible] Nitrogen 8 p.p.m.
[illegible] 11-52 p.p.m.
[illegible] 44 p.p.m.
Organic matter 2.3% (via Dynamic acid titration method)

Calcium 3800 p.p.m. Sodium 91000 p.p.m.
Iron good
Aluminum salts low
Magnesium adequate

[illegible]:

APPENDIX J

PHASE III BACKFILL DETAILS
PHASE III FENCE INSTALLATION DETAILS



APPENDIX K

PHASE III AMBIENT AIR SAMPLING DATA
1. GALSON DATA, BUCK DATA
2. RGE INDUSTRIAL HYGIENE DATA SHEETS

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057
Tel: (315) 432-0506
1-800-950-0506

RECEIVED
Route To:_____
DEC 2 01995
Proj:_____
File Code:_____

October 4, 1995

DOH ELAP # 10186

Mr. Barry Bedaw
Groundwater Technology, Inc.
1245 Kings Rd.
Schenectady, NY 12303

Re: Client Account # 11974 Login # L25966

Dear Mr. Bedaw:

Enclosed are the analytical results of the samples received by our laboratory September 29, 1995.

Please contact our Industrial Hygiene Client Services, at (800) 724-0669 extension 305 or 200, if you require additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Gale G. Sutton, CIH
Laboratory Director

Enclosure(s)

Galson Laboratories

LABORATORY ANALYSIS REPORT

Client : Groundwater Technology, Inc.
Site : NS
Date Sampled : 27-SEP-95 Account No.: 11974
Date Received : 29-SEP-95 Login No. : L25966

Benzene

Sample ID	Lab ID	Air Vol l	Front ug	Back ug	Total ug	mg/m3	ppm
092795BB01	L25966-1	8.77	< 2	< 2	< 2	< 0.2	< 0.07
092795BB02	L25966-2	10.04	< 2	< 2	< 2	< 0.2	< 0.06
092795BB03	L25966-3	334	< 2	< 2	< 2	< 0.006	< 0.002

DESORPTION EFFICIENCY: Total UG corrected for a desorption efficiency of 100 %.

Level of quantitation: 2 ug
Analytical Method : NIOSH 1501
OSHA PEL (TWA) : See CFR 1910.1028
Collection Media : Charcoal

Submitted by: Jeremy Macie
Approved by : Mary Beth Wolff
Date : 04-OCT-95
QC by:

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms
> -Greater Than ug -Micrograms l -Liters NS -Not Specified
NA -Not Applicable ND -Not Detected ppm -Parts per Million

Field sampling was not performed by Galson. Galson presents results based on sampling data provided by clients.

Galson Laboratories
6601 Kirkville Road East
E. Syracuse, New York 13057
(315)-432-0506 or (800)-950-0506
Fax:(315)-437-0571

Request For Industrial Hygiene Analysis

Company Name: Groundwater Tech

Sampled By: Beedow | Project No: 011W02648

Send Report to: Barry Bedow
1245 King Rd
Schenectady NY 12303

Send Invoice to: Barry Bedow

P.O. No.# left message CE PO# 9/29/95 (10AD)
011W02648
per Barry Bedow 9/29/95 (10AD)

Please check all that apply: **Turn-Around Time**

- [X] Standard Service (10 Working Days)
- [ ] * Rush Service. Date results requested by: _____
- [X] Fax results to: Barry — Please Provide Fax # (518)-370-5864
- [ ] Phone results to: _____ — Please Provide Ph # (518)-370-5631

* Please refer to our fee schedule for rush service charges. Please inquire for capacity of rush analysis.

OSHA Compliance? Y (N) (Please Circle) Samples collected in New York State? (Y) N (Please Circle)

Sample Identification	Date Sampled:	Sample Medium:	Air Sample Volume (liters)*	Analysis Required:	Method Reference:
092795BB01 ✓ Groundwater Technology, Inc. L25966-1 09/29/95 Charcoal 092795BB01	9/27/95	Charcoal Tube	8.77	Benzene MOSH 1501	1501
092795BB02 ✓ Groundwater Technology, Inc. L25966-2 09/29/95 Charcoal 092795BB02			10.04		
092795BB03 ✓ Groundwater Technology, Inc. L25966-3 09/29/95 Charcoal 092795BB03			334		
This Space for LAB use only					
This Space for LAB use only					
This Space for LAB use only					

* - For passive monitors please list time exposed in minutes.

Comments: need Low Blank needed per Barry Bedow 9/29/95 (10AD)

3144330755

Chain of Custody:	Signature:	Date:
Relinquished by: Barry Bedow		9-27-95
Received by LAB:	9:00	9-29-95

"Samples received after 3pm will be considered as next day's business."

The white copy will be returned with your report. Please retain pink copy for your records

EMPLOYEE EXPOSURE SAMPLING DATA

Name: RG&E

Social Security No.:

Building: Bee Bee

Sampling Location:

Date: 9-27-95

Samples Collected by: Barry Bedaw

Type of Sample: Background

Analyze For:

SAMPLE DATA

Sample No.	092795BB01	092795BB02	092795BB03			
Monitor/Pump No.	10133	26825	18216			
Time On	0935	0950	1000			
Time Off	1500	1514	1510			
Total Time (min)	325	324	310			
Flow Rate (Volume/Time)	.027 l	.031 l	1.08			
Volume (cc, L, ft3)	8.77	10.04	334			
Result						

SAMPLE LOCATION

Sample #	Employee Name/Number or Sample Location	Height	Type
BB01	SAS-2	5'	
BB02	SAS-3	3'	
BB03	SAS-1	3'	

BUCK ENVIRONMENTAL LABORATORIES INC.
ACCREDITED ENVIRONMENTAL ANALYSIS
3845 ROUTE 11 SOUTH, CORTLAND, N.Y. 13045
P.O. BOX 5150 607-753-3403

NYS ELAP ID 10795

LABORATORY REPORT

Client: Groundwater Technologies
1245 Kings Road
Schenectady, NY 12303

Site: RG&E
Sample: Air - BB01

Report Date: 03/18/96
Sampling Date: 02/27/96
Sampled By: B. Bedaw
Received: 03/05/96
Analysis Date: 03/08/96
Lab Log No: 9603020

Benzene by NIOSH 1501

CAS NO.	COMPOUND	AIR VOLUME (L)	DETECTION LIMIT (mg/m^3)	RESULT (mg/m^3) *
71-43-2	Benzene	35.0	.28	ND

All concentrations are reported as mg/m^3.

ND - none detected greater than detection limit stated.

* - based on air volume reported by client.

These analyses are certified as conforming to generally accepted laboratory practices, the analytical method cited, requirements of the New York State Health Department ELAP program.

John H. Buck, P.E.
Laboratory Director

RECEIVED
MAR 2 6 1996

BUCK ENVIRONMENTAL LABORATORIES INC.
ACCREDITED ENVIRONMENTAL ANALYSIS
3845 ROUTE 11 SOUTH, P.O. BOX 5150
CORTLAND, N.Y. 13045 607-753-3403

NYS ELAP ID 10795

LABORATORY REPORT

Client: Groundwater Technologies
1245 Kings Road
Schenectady, NY 12303

Site: RG&E
Sample: Air - BB02

Report Date: 03/18/96
Sampling Date: 02/27/96
Sampled By: B. Bedaw
Received: 03/05/96
Analysis Date: 03/08/96
Lab Log No: 9603020

Benzene by NIOSH 1501

CAS NO.	COMPOUND	AIR VOLUME (L)	DETECTION LIMIT (mg/m^3)	RESULT (mg/m^3) *
71-43-2	Benzene	28.3	.35	.48

All concentrations are reported as mg/m^3.

* - based on air volume reported by client.

These analyses are certified as conforming to generally accepted laboratory practices, the analytical method cited, requirements of the New York State Health Department ELAP program.

John H. Buck, P.E.
Laboratory Director

Brian

GALSON

September 17, 1996

DOH ELAP# 10186

Mr. Barry Bedaw
Fluor Daniel GTI
1245 Kings Rd.
Schenectady, NY 12303

Re: Client Account# 12932 Login# L32210

Dear Mr. Bedaw:

Enclosed are the analytical results of the samples received by our laboratory September 6, 1996.

We strive to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Galson Laboratories is uniquely qualified to meet your needs for accurate and timely industrial hygiene analyses. Accredited by the American Industrial Hygiene Association since 1976, we perform all analyses according to NIOSH or OSHA-approved analytical methods. Galson Laboratories is committed to providing quality analyses and exceptional customer service.

Please contact our Industrial Hygiene Client Services, at (800) 724-0669, extension 305 or 200, if you require additional information regarding this report. We look forward to working with you again soon.

Sincerely,

Galson Laboratories

Gale G. Sutton, CIH
Laboratory Director

Enclosure(s)

RECEIVED
SEP 27 1996

6601 Kirkville Road • East Syracuse, New York 13057 • Phone (315) 432-0506 • FAX (315) 437-0509

WISCONSIN OCCUPATIONAL HEALTH LABORATORY (WOHL) SAMPLE SUBMISSION FORM

Bill To FD GTI
1245 Kings Rd
Schenectady NY 12303

Contact Person Barry Bedaw

Phone

Send Results To ~~Barry Bedaw~~ Fwr Daniel GTI
1245 Kings Rd
Schenectady NY 12303

P.O. # SC 0268

Sampling Date 8/30/96

Phone 518 370 5631

Project 02110 02698/07

WOHL COMP #

FAX 518 370 5864

Turnaround Time (Please Circle): **RUSH** **PRIORITY** **NORMAL**

●Rush and priority requests must be prearranged.

★COMMENTS★

●PLEASE GROUP SAMPLES BY MEDIA USED AND ANALYSIS REQUESTED. BULK AND WIPE SAMPLES SHOULD NOT BE COLLECTED IN PLASTIC BAGS.●

FOR WOHL USE ONLY		CUSTOMER	SAMPLING	TIME	TIME	TOTAL	FLOW	VOLUME	ANALYSIS REQUESTED &
CODE #	LAB #	FIELD #	MEDIA	ON	OFF	(MIN)	RATE	(LITERS)	SPECIAL INSTRUCTIONS
SAS-1	L32210-1	SAS-1	100 charcoal	0805	1303	298	225cc	67.05	NIOSH 1501 Benzene
SAS-2	L32210-2	SAS-2	100 charcoal	0800	1300	300	217cc	65.10	NIOSH 1501 Benzene
SAS-3	L32210-3	SAS-3	100 charcoal	0808	1308	300	204cc	61.20	NIOSH 1501 Benzene
		Added lab blank 9/6/96 - called and spoke to Barry told him we charge as a sample. OK per Barry 9/6/96 (SM)							
	L32210-4 LAB BLANK								

CHAIN OF CUSTODY: Relinquished B. Bedaw Date 8/30/96 Received [signature] Date 9/6/96 8:30

MAIL SAMPLES AND FORM TO: Wisconsin Occupational Health Lab
979 Jonathon Drive
Madison, WI 53713

Phone 608 263-6550
800 446-0403
FAX 608-263-6551

a:\sampsub

LABORATORY ANALYSIS REPORT

GALSON

Client : Fluor Daniel GTI
Site : NS
Date Sampled : 30-AUG-96
Date Received : 06-SEP-96

Project No.: 011100268 07
Account No.: 12932
Login No. : L32210

Benzene

Sample ID	Lab ID	Air Vol l	Front ug	Back ug	Total ug	mg/m3	ppm
SAS-1	L32210-1	67.05	< 2	< 2	< 2	< 0.03	< 0.009
SAS-2	L32210-2	65.10	< 2	< 2	< 2	< 0.03	< 0.01
SAS-3	L32210-3	61.20	< 2	< 2	< 2	< 0.03	< 0.01
LAB BLANK	L32210-4	NA	< 2	< 2	< 2	NA	NA

DESORPTION EFFICIENCY: Total UG corrected for a desorption efficiency of 100 %.

Level of quantitation: 2 ug
Analytical Method : NIOSH 1501; GC/FID
OSHA PEL (TWA) : See CFR 1910.1028
Collection Media : Charcoal

Submitted by: H Eckerlin
Approved by : JMT
Date : 17-SEP-96
QC by:
NYS DOH # : 10186

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON CONSULTING • GALSON/LOZIER ENGINEERS • GALSON LABORATORIES
6601 Kirkville Road . East Syracuse, New York 13057 . Phone (315) 432-0506 . FAX (315) 437-0509

BUCK ENVIRONMENTAL LABORATORIES INC.
ACCREDITED ENVIRONMENTAL ANALYSIS
3845 ROUTE 11 SOUTH, CORTLAND, N.Y. 13045
P.O. BOX 5150 607-753-3403

NYS ELAP ID 10795

LABORATORY REPORT

Client:	Groundwater Technologies	Report Date:	03/18/96
	1245 Kings Road	Sampling Date:	02/27/96
	Schenectady, NY 12303	Sampled By:	B. Bedaw
		Received:	03/05/96
Site:	RG&E	Analysis Date:	03/08/96
Sample:	Air - BB01	Lab Log No:	9603020

Benzene by NIOSH 1501

CAS NO.	COMPOUND	AIR VOLUME (L)	DETECTION LIMIT (mg/m^3)	RESULT (mg/m^3) *
71-43-2	Benzene	35.0	.28	ND

All concentrations are reported as mg/m^3.

ND - none detected greater than detection limit stated.

* - based on air volume reported by client.

These analyses are certified as conforming to generally accepted laboratory practices, the analytical method cited, requirements of the New York State Health Department ELAP program.

John H. Buck, P.E.
Laboratory Director

RECEIVED
MAR 2 6 1996

BUCK ENVIRONMENTAL LABORATORIES INC.
ACCREDITED ENVIRONMENTAL ANALYSIS
3845 ROUTE 11 SOUTH, CORTLAND, N.Y. 13045
P.O. BOX 5150 607-753-3403

NYS ELAP ID 10795

LABORATORY REPORT

Client: Groundwater Technologies
1245 Kings Road
Schenectady, NY 12303

Site: RG&E
Sample: Air - BB02

Report Date: 03/18/96
Sampling Date: 02/27/96
Sampled By: B. Bedaw
Received: 03/05/96
Analysis Date: 03/08/96
Lab Log No: 9603020

Benzene by NIOSH 1501

CAS NO.	COMPOUND	AIR VOLUME (L)	DETECTION LIMIT (mg/m^3)	RESULT (mg/m^3) *
71-43-2	Benzene	28.3	.35	.48

All concentrations are reported as mg/m^3.

* - based on air volume reported by client.

These analyses are certified as conforming to generally accepted laboratory practices, the analytical method cited, requirements of the New York State Health Department ELAP program.

John H. Buck, P.E.
Laboratory Director

Environmental Health & Safety

Industrial Hygiene Sampling Report

Industrial Hygiene samples were collected on the following project(s):

Project: Beebee Sta. Coal Tar Remediation

Date Sampled: 2/8/96

Sampled By: Davis Frederiksen,CIH

Personal Samples were collected as follows:

Name	Time	Contaminant	Results	OSHA PEL
Russ Miller	0842-1545	Benzene	.018 ppm	1 ppm

General Area Samples were collected as follows:

Location	Time	Contaminant	Results	OSHA PEL
N end of conveyor	0847-1542	Benzene	.15 ppm	1 ppm
N end of conveyor	0847-1545	Toluene	.10 ppm	200 ppm
N end of conveyor	0847-1545	Xylene	.099 ppm	100 ppm

Reported By: Davis Frederiksen, CIH

Environmental Health & Safety

Industrial Hygiene Sampling Report

Industrial Hygiene samples were collected on the following project(s):

Project: Beebee Sta. Coal Tar Remediation

Date Sampled: 2/23/96

Sampled By: Davis Frederiksen,CIH

Personal Samples were collected as follows:

Name	Time	Contaminant	Results	OSHA PEL
Russ Miller	0850-1609	Benzene	.013 ppm	1 ppm

General Area Samples were collected as follows:

Location	Time	Contaminant	Results	OSHA PEL
N end of conveyor	0850-1609	Benzene	.062 ppm	1 ppm

Reported By: Davis Frederiksen, CIH

Environmental Health & Safety

Industrial Hygiene Sampling Report

Industrial Hygiene samples were collected on the following project(s):

Project: Beebee Sta. Coal Tar Remediation

Date Sampled: 3/28/96

Sampled By: Davis Frederiksen,CIH

Personal Samples were collected as follows:

Name	Time	Contaminant	Results	OSHA PEL
Russ Miller		Benzene	.067 ppm	1 ppm

General Area Samples were collected as follows:

Location	Time	Contaminant	Results	OSHA PEL
N end of conveyor		Benzene	.014 ppm	1 ppm

Reported By: Davis Frederiksen, CIH

Environmental Health & Safety

Industrial Hygiene Sampling Report

Industrial Hygiene samples were collected on the following project(s):

Project: Beebee Sta. Coal Tar Remediation

Date Sampled: 4/25/96

Sampled By: Davis Frederiksen,CIH

Personal Samples were collected as follows:

Name	Time	Contaminant	Results	OSHA PEL
Russ Miller		Benzene	.016 ppm	1 ppm

General Area Samples were collected as follows:

Location	Time	Contaminant	Results	OSHA PEL
N end of conveyor		Benzene	.089 ppm	1 ppm

Reported By: Davis Frederiksen, CIH

R AND E Environmental Health & Safety

Industrial Hygiene Sampling Report

Industrial Hygiene samples were collected on the following project(s):

Project: Beebee Sta. Coal Tar Remediation

Date Sampled: 5/31/96

Sampled By: Davis Frederiksen,CIH

Personal Samples were collected as follows:

Name	Time	Contaminant	Results	OSHA PEL
Duane Miller	0835-1609	Benzene	.046 ppm	1 ppm

General Area Samples were collected as follows:

Location	Time	Contaminant	Results	OSHA PEL
N end of conveyor	0838-1605	Benzene	.064 ppm	1 ppm

Reported By: Davis Frederiksen, CIH

APPENDIX L

PHASE III AMBIENT AIR MONITORING DATA

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. BEDAW

Weather: CLEAR 75°F

Date: 8-30-96

AIR MONITORING LOG

Time	LOCATION			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
				Avg (1 Hr)	Peak		
9:30	SAS-1			0.01	0.01	W	0-5
8:30	SAS-2			0.01	0.01	W	0-5
10:30	SAS-3			0.01	0.03	W	0-5
11:30	SAS-1			0.01	0.01	W	0-5
12:30	SAS-2			0.00	0.00	W	0-5
1:30	SAS-3			0.00	0.02	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 70°F

Date: 6-27-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.03	N	0-5
800	0.0	0.0		0.01	0.03	N	0-5
900	0.0	0.0		0.02	0.04	N	0-5
1000	0.0	0.0		0.03	0.06	W	0-5
1100	0.0	0.0	0.0	0.03	0.07	N	0-5
1200	0.0	0.0		0.04	0.08	W	0-5
100	0.0	0.0		0.03	0.05	W	0-5
200	0.0	0.0		0.03	0.07	W	0-5
300	0.0	0.0		0.05	0.08	SW	0-5
400	0.0	0.0		0.05	0.07	SW	0-5
500	0.0	0.0		0.02	0.05	SW	0-5
NOTE:	THIS WILL BE THE LAST AIR MONITORING SHEET TO						
	BE SUBMITTED. AS OF TODAY ALL FINAL BLENDED						
	PRODUCT HAS BEEN REMOVED FROM THE SITE. WE						
	WILL CONTINUE THE PRACTICE OF WETTING THE STONE						
	ACCESS ROAD AS NECESSARY.						

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 75°F

Date: 6-26-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	NW	0-5
800	0.0	0.0		0.00	0.01	NW	0-5
900	0.0	0.0		0.01	0.02	NW	0-5
1000	0.0	0.0		0.01	0.01	NW	0-5
1100	0.0	0.0	0.0	0.01	0.01	NW	0-5
1200	0.0	0.0		0.01	0.04	NW	0-5
100	0.0	0.0		0.02	0.05	NW	0-5
200	0.0	0.0		0.01	0.05	NW	0-5
300	0.0	0.0		0.01	0.04	NW	0-5
400	0.0	0.0		0.02	0.06	NW	0-5
500	0.0	0.0		0.02	0.07	NW	0-5
600	0.0	0.0		0.02	0.04	NW	0-5
700	0.0	0.0		0.03	0.06	NW	0-5
800	0.0	0.0		0.02	0.05	NW	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: OVERCAST 65°F

Date: 6-25-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.01	SW	0-5
800	0.0	0.0		0.00	0.00	SW	0-5
900	0.0	0.0		0.00	0.01	SW	0-5
1000	0.0	0.0		0.00	0.01	SW	0-5
1100	0.0	0.0		0.01	0.01	SW	0-5
1200	0.0	0.0	0.0	0.01	0.03	SW	0-5
100	0.0	0.0		0.01	0.03	SW	0-5
200	0.0	0.0		0.01	0.05	SW	0-5
300	0.0	0.0		0.01	0.02	SW	0-5
400	0.0	0.0		0.02	0.03	SW	0-5
500	0.0	0.0		0.01	0.05	SW	0-5
600	0.0	0.0		0.01	0.04	SW	0-5
700	0.0	0.0		0.01	0.01	SW	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heath Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 70°F RAIN

Date: 6-24-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	NW	0-5
800	0.0	0.0		0.00	0.00	NW	0-5
900	0.0	0.0		0.00	0.01	NW	0-5
1000	0.0	0.0		0.00	0.01	NW	0-5
1100	0.0	0.0	0.0	0.01	0.02	NW	0-5
1200	0.0	0.0		0.00	0.04	NW	0-5
100	0.0	0.0		0.00	0.02	NW	0-5
200	0.0	0.0		0.00	0.00	NW	0-5
300	0.0	0.0		0.00	0.00	NW	0-5
400	0.0	0.0		0.00	0.02	W	0-5
500	0.0	0.0		0.00	0.02	W	0-5
600	0.0	0.0		0.00	0.01	W	0-5
700	0.0	0.0		0.00	0.00	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 80°F

Date: 6-21-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.01	0.02	W	0-5
800	0.0	0.0		0.02	0.04	W	0-5
900	0-0	0.0		0.02	0-02	W	05
1000	0-0	0.0		0.03	0.06	W	0-5
1100	0.0	0.0		0.05	0.07	W	0.5
1200	0.0	0.0	0.0	0-05	0.09	W	0-5
100	0.0	0.0		0.06	0.08	W	0.5
200	0.0	0.0		0.04	0.07	W	0-5
300	0.0	0.0		0.04	0.06	W	0-5
400	0.0	0.0		0.03	0.05	W	0-5
500	0.0	0.0		0.02	0.04	W	0-5
600	0.0	0.0		0.02	0.06	W	0.5
700	0.0	0.0		0.01	0.01	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station — Monitored by: B. CAREY

Weather: RAIN/CLEARING 70°F — Date: 6-20-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	SW	0-5
800	0.0	0.0		0.01	0.01	SW	0-5
900	0.0	0.0		0.01	0.01	SW	0-5
1000	0.0	0.0		0.00	0.00	SW	0-5
1100	0.0	0.0		0.02	0.07	SW	0-5
1200	0.0	0.0	0.0	0.01	0.02	SW	0-5
100	0.0	0.0		0.00	0.00	SW	0-5
200	0.0	0.0		0.00	0.00	SW	0-5
300	0.0	0.0		0.00	0.01	SW	0-5
400	0.0	0.0		0.00	0.02	SW	0-5
500	0.0	0.0		0.00	0.01	SW	0-5
600	0.0	0.0		0.00	0.01	SW	0-5
700	0.0	0.0		0.00	0.01	SW	0-5

File: ROBAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: ~~RAIN~~, CLEAR 70°F

Date: 6-19-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.01	0.02	W	0-5
900	0.0	0.0		0-01	0.02	W	0-5
1000	0.0	0.0		0.01	0.03	W	0-5
1100	0.0	0.0		0-01	0.05	W	0-5
1200	0.0	0.0	0.0	0.01	0.04	W	0-5
100	0.0	0.0		0.02	0.04	W	0-5
200	0.0	0.0		0.00	0.06	W	0-5
300	0.0	0.0		0.01	0.04	W	0-5
400	0.0	0.0		0.01	0.05	W	0-5

File: ROEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heath Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 70°F

Date: 6-18-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.02	0.02	W	0-5
900	0.0	0.0		0.02	0.05	W	0-5
1000	0.0	0.0		0.03	0.04	W	0-5
1100	0.0	0.0		0.03	0.06	W	0-5
1200	0.0	0.0	0.0	0.04	0.07	W	0-5
100	0.0	0.0		0.04	0.07	W	0-5
200	0.0	0.0		0.04	0.06	W	0-5
300	0.0	0.0		0.04	0.08	W	0-5
400	0.0	0.0		0.02	0.04	W	0-5
500	0.0	0.0		0.00	0.00	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 80°F

Date: 6-17-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
900	0.0	0.0		0.01	0.01	W	0-5
1000	0.0	0.0		0.01	0.01	W	0-5
1100	0.0	0.0		0.02	0.06	W	0-5
1200	0.0	0.0	0.0	0.03	0.07	W	0-5
100	0.0	0.0		0.02	0.05	W	0-5
200	0.0	0.0		0.04	0.08	W	0-5
300	0.0	0.0		0.05	0.08	W	0-5
400	0.0	0.0		0.05	0.07	W	0-5
500	0.0	0.0		0.05	0.05	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 75°F

Date: 6-14-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.01	0.01	W	0-5
900	0.0	0.0		0.00	0.00	W	0-5
1000	0.0	0.0		0.02	0.04	W	0-5
1100	0.0	0.0	0.0	0.02	0.05	W	0-5
1200	0.0	0.0		0.03	0.08	W	0-5
100	0.0	0.0		0.02	0.06	W	0-5
200	0.0	0.0		0.01	0.02	W	0-5

File: ROEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 70°F

Date: 6-13-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.01	0.03	W	0-5
800	0.0	0.0		0.04	0.08	W	0-5
900	0.0	0.0		0.04	0.07	W	0-5
1000	0.0	0.0		0.03	0.05	W	0-5
1100	0.0	0.0	0.0	0.05	0.07	W	0-5
1200	0.0	0.0		0.03	0.05	W	0-5
100	0.0	0.0		0.04	0.08	W	05
200	0.0	0.0		0.02	0.05	W	05
300	0.0	0.0		0.02	0.04	W	0-5
400	0.0	0.0		0.02	0.02	W	0-5
500	0.0	0.0		0.02	0.03	W	0-5
NOTE:	ALL EXCAVATION, BLENDING AND PROCESSING						
	ACTIVITIES ARE COMPLETED.						
	ONLY TRUCK LOADING AND BACKFILLING WILL BE						
	OCCURRING FOR REMAINDER OF PROJECT						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Health Dept

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 72°F
RAIN IN P.M.

Date: 6-12-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.01	0.02	W	0-5
1000	0.0	0.0		0.01	0.04	W	0-5
1100	0.0	0.0		0.01	0.01	W	0-5
1200	0.0	0.0		0.02	0.04	W	0-5
100	0.0	0.0		0.02	0.05	W	0-5
200	0.0	0.0		0.01	0.01	W	0-5
300	0.0	0.0		0.00	0.00	W	0-5
400	0.0	0.0		0.00	0.00	W	0-5
500	0.0	0.0		0.00	0.00	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 75°F

Date: 6-11-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.02	0.04	W	0-5
1000	0.0	0.0		0.02	0.05	W	0-5
1100	0.0	0.0		0.02	0.03	W	0-5
1200	0.0	0.0	0.0	0.01	0.02	W	0-5
100	0.0	0.0		0.01	0.01	W	0-5
200	0.0	0.0		0.00	0.00	W	0-5
300	0.0	0.0		0.00	0.00	W	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 70°F

Date: 6-10-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.01	0.03	SW	0-5
900	0.0	0.0		0.01	0.02	SW	0-5
1000	0.0	0.0		0.04	0.07	SW	0-5
1100	0.0	0.0	0.0	0.05	0.08	SW	0-5
1200	0.0	0.0		0.05	0.06	SW	0-5
100	0.0	0.0		0.04	0.09	W	0-5
200	0.0	0.0		0.03	0.10	W	0-5
300	0.0	0.0		0.02	0.05	W	0-5
400	0.0	0.0		0.02	0.04	W	0-5
~~500~~	~~0.0~~	~~0.0~~					

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: RAIN 55°F

Date: 6-7-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	NW	0-5
800	0.0	0.0		0.00	0.01	NW	0-5
900	0.0	0.0		0.00	0.00	NW	0-5
1000	0.0	0.0		0.00	0.01	NW	0-5
1100	0.0	0.0		0.01	0.02	NW	0-5
1200	0.0	0.0	0.0	0.01	0.01	NW	0-5
100	0.0	0.0		0.00	0.01	NW	0-5
200	0.0	0.0		0.01	0.02	NW	0-5
300	0.0	0.0		0.00	0.01	NW	0-5
400	0.0	0.0		0.00	0.00	NW	0-5
500	0.0	0.0		0.00	0.00	NW	0-5

File: ROBAIR.WK1

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Health Dept

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 70°F

Date: 6-16-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.00	0.00	W	0-5
1000	0.0	0.0		0.00	0.00	W	0-5
1100	0.0	0.0		0.02	0.04	W	0-5
1200	0.0	0.0	0.0	0.01	0.03	W	0-5
100	0.0	0.0		0.01	0.01	W	0-5
200	0.0	0.0		0.01	0.03	W	0-5
300	0.0	0.0		0.02	0.05	W	0-5
400	0.0	0.0		0.01	0.02	W	0-5
500	0.0	0.0		0.01	0.01	W	0-5
600	0.0	0.0		0.00	0.01	W	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Health Dept.

Project: RG&E West Station

Monitored by: B Tracy

Weather: Clear

Date: 6/5/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.00	0.02	W	0-5
900	0.0	0.0		0.00	0.02	W	0-5
1000	0.0	0.0		0.02	0.02	W	0-5
1100	0.0	0.0	0.0	0.00	0.00	NW	5-10
1200	0.0	0.0		0.00	0.00	W	0-5
1300	0.0	0.0		0.02	0.04	W	0-5
1400	0.0	0.0		0.00	0.00	W	0-5
1500	0.0	0.0		0.02	0.02	NW	0-5
1600	0.0	0.0		0.04	0.04	W	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Health Dept.

Project: RG&E West Station

Monitored by: B. CAREY / B. TRAPP

Weather: CLEAR 65°F

Date: 6-4-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.02	0.04	W	0-5
800	0.0	0.0		0.04	0.06	W	0-5
900	0.0	0.0		0.04	0.07	W	0-5
1000	0.0	0.0		0.04	0.06	W	0-5
1100	0.0	0.0		0.04	0.07	W	0-5
1200	0.0	0.0		0.00	0.00	W	0-5
100	0.0	0.0	0.0	0.00	0.04	W	0-5
200	0.0	0.0		0.02	0.04	W	0-5
300	0.0	0.0		0.00	0.00	W	0-5
400	0.0	0.0		0.00	0.02	W	0-5
500	0.0	0.0		0.00	0.00	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Health Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 65°F

Date: 6-3-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.00	0.00	W	0-5
1000	0.0	0.0		0.00	0.01	W	0-5
1100	0.0	0.0		0.00	0.02	W	0-5
1200	0.0	0.0	0.0	0.01	0.01	W	0-5
100	0.0	0.0		0.00	0.01	W	0-5
200	0.0	0.0		0.01	0.01	W	0-5
300	0.0	0.0		0.01	0.03	W	0-5
400	0.0	0.0		0.02	0.04	W	0-5
500	0.0	0.0		0.01	0.02	W	0-5
600	0.0	0.0		0.02	0.03	W	0-5
700	0.0	0.0		0.01	0.01	W	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Health Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 70°F

Date: 5-31-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	NW	0-5
900	0.0	0.0		0.00	0.00	W	0-5
1000	0.0	0.0		0.00	0.00	W	0-5
1100	0.0	0.0		0.00	0.00	NW	0-5
1200	0.0	0.0	0.0	0.00	0.00	W	0-5
100	0.0	0.0		0.00	0.01	W	0-5
200	0.0	0.0		0.00	0.02	W	0-5
300	0.0	0.0		0.01	0.06	W	0-5
400	0.0	0.0		0.01	0.08	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 65°F

Date: 5-30-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.00	0.00	W	0-5
1000	0.0	0.0		0.00	0.01	W	0.5
1100	0.0	0.0	0.0	0.01	0.03	W	0.5
1200	0.0	0.0		0.01	0.04	W	0.5
100	0.0	0.0		0.02	0.06	W	0-5
200	0.0	0.0		0.02	0.05	W	0.5
300	0.0	0.0		0.01	0.02	W	0 5
400	0.0	0.0		0.00	0.01	W	0.5
500	0.0	0.0		0.00	0.02	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 70°F

Date: 5-29-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.01	SW	6-10
900	0.0	0.0		0.00	0.01	SW	6-10
1000	0.0	0.0		0.01	0.03	SW	6-10
1100	0.0	0.0	0.0	0.01	0.02	SW	6-10
1200	0.0	0.0		0.01	0.02	SW	6-10
100	0.0	0.0		0.01	0.03	W	0-5
200	0.0	0.0		0.02	0.05	W	0-5
300	0.0	0.0		0.04	0.07	W	0-5
400	0.0	0.0		0.05	0.08	W	0-5
500	0.0	0.0		0.04	0.08	W	0-5
600	0.0	0.0		0.05	0.07	W	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 65°F

Date: 5-28-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.00	0.01	W	0-5
1000	0.0	0.0		0.01	0.01	W	0-5
1100	0.0	0.0		0.01	0.01	W	0-5
1200	0.0	0.0	0.0	0.00	0.00	W	0-5
100	0.0	0.0		0.00	0.01	W	0-5
200	0.0	0.0		0.01	0.01	W	0-5
300	0.0	0.0		0.00	0.00	W	0-5
400	0.0	0.0		0.00	0.00	W	0-5
500	0.0	0.0		0.00	0.00	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 65°F

Date: 5-24-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.02	NW	0-5
900	0.0	0.0		0.00	0.01	NW	0-5
1000	0.0	0.0		0.00	0.02	NW	0-5
1100	0.0	0.0		0.00	0.03	NW	0-5
1200	0.0	0.0	0.0	0.01	0.04	NW	0-5
100	0.0	0.0		0.01	0.02	NW	0-5
200	0.0	0.0		0.01	0.01	NW	0-5
300	0.0	0.0		0.01	0.01	NW	0-5
400	0.0	0.0		0.00	0.00	NW	0-5
NOTE:	NO BLENDING OR PROCESSING OCCURRED TODAY.						
	ONLY SITE ACTIVITY IS MOVING RESECT WITH A						
	DOZER AND EXCAVATING TEST TRENCHES						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY ~~55°F~~ 70°F

Date: 5-23-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.01	0.01	W	0-5
1000	0.0	0.0		0.02	0.05	W	0-5
1100	0.0	0.0		0.02	0.04	W	0-5
1200	0.0	0.0		0.01	0.02	W	0-5
100	0.0	0.0		0.01	0.03	W	05
200	0.0	0.0	0.0	0.01	0.01	W	05
300	0.0	0.0		0.01	0.01	W	0-5
400	0.0	0.0		0.00	0.00	W	05
500	0.0	0.0		0.01	0.01	W	0-5
600	0.0	0.0		0.01	0.01	W	0-5
NOTE:	1) NO EXCAVATION OR BLENDING/PROCESSING OCCURRED TODAY. CURRENT WORK SCOPE INCLUDES DOZING REJECT MATERIAL AND TRUCK LOADING.						
	2) THE ELEVATED PARTICULATE READINGS THAT HAVE BEEN MEASURED ON SEVERAL DAYS DURING THE PAST TWO WEEKS WAS DUE TO FREQUENT VEHICLE TRAFFIC ON THE ACCESS ROAD DURING THOSE HOT, SUNNY DAYS. THE ACTION THAT HAS BEEN TAKEN TO CONTROL THIS IS INCREASED USE OF THE WATER TRUCK TO KEEP THE ROAD WET.						

File: ROBAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CARET

Weather: CLEAR 70°F

Date: 5-22-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.01	0.01	W	0-5
800	0.0	0.0		0.05	0.07	W	0-5
900	0.0	0.0		0.03	0.06	W	0-5
1000	0.0	0.0		0.02	0.08	W	0-5
1100	0.0	0.0		0.06	0.12	W	0-5
1200	0.0	0.0		0.11	0.17	W	0-5
100	0.0	0.0	0.0	0.10	0.18	W	0-5
200	0.0	0.0		0.09	0.14	W	0-5
300	0.0	0.0		0.07	0.11	W	0-5
400	0.0	0.0		0.04	0.15	W	0-5
500	0.0	0.0		0.06	0.11	W	0-5
						W	
NOTE:	EXCAVATION AND BLENDING PROCESSES ARE						
	TEMPORARILY SUSPENDED WHILE EQUIPMENT IS						
	BEING MOVED AND REJECT MATERIAL IS BEING						
	MOVED WITH A DOZER. ~~FOA~~						

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: RAIN / CLEAR 70°F

Date: 5-21-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	NW	0-5
900	0.0	0.0		0.01	0.01	NW	0-5
1000	0.0	0.0		0.01	0.01	NW	6-10
1100	0.0	0.0		0.01	0.01	NW	6-10
1200	0.0	0.0		0.02	0.04	NW	6-10
100	0.1	0.0	0.0	0.02	0.07	NW	6-10
200	0.2	0.0		0.05	0.09	NW	6-5
300	0.2	0.0		0.06	0.11	NW	0-5
400	0.0	0.0		0.04	0.12	NW	6-10
500	0.0	0.0		0.06	0.08	NW	6-10

File RGBAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 75°F

Date: 5-20-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	W	6-10
800	0.0	0.0		0.00	0.01	W	0-5
900	0.0	0.0		0.03	0.07	W	0-5
1000	0.0	0.0		0.04	0.07	W	0-5
1100	0.0	0.0	0.0	0.04	0.09	W	0-5
1200	0.0	0.0		0.06	0.15	W	0-5
100	0.0	0.0		0.06	0.19	W	6-10
200	0.0	0.0		0.08	0.17	W	0-5
300	0.0	0.0		0.09	0.20	W	0-5
400	0.0	0.0		0.12	0.18	W	0-5
500	0.0	0.0		0.08	0.21	W	0-5

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 60°F

Date: 5-17-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	NW	0-5
800	0.2	0.0		0.00	0.02	NW	0-5
900	0.0	0.0		0.01	0.01	NW	0-5
1000	0.1	0.0		0.02	0.05	NW	0-5
1100	0.0	0.0		0.03	0.05	NW	0-5
1200	0.0	0.0	0.0	0.03	0.07	NW	0-5
100	0.1	0.0		0.06	0.09	NW	0-5
200	0.0	0.0		0.02	0.05	NW	0-5
300	0.0	0.0		0.00	0.00	NW	0-5
400	0.0	0.0		0.01	0.01	NW	0-5
500	0.0	0.0		0.00	0.00	NW	0-5

File: RGBAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 55°F

Date: 5-16-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	W	0-5
800	0.0	0.0		0.00	0.00	W	0-5
900	0.0	0.0		0.01	0.01	W	0-5
1000	0.0	0.0		0.00	0.01	W	0-5
1100	0.0	0.0	0.0	0.01	0.06	W	0-5
1200	0.0	0.0		0.02	0.04	W	05
100	0.0	0.0		0.02	0.05	W	05
200	0.0	0.0		0.00	0.03	W	05
300	0.0	0.0		0.06	0.10	W	05
400	0.0	0.0		0.04	0.07	W	05
500	0.0	0.0		0.01	0.01	W	0.5
600	0.0	0.0		0.00	0.01	W	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 50°F

Date: 5-15-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	N	0-5
800	0.0	0.0		0.01	0.03	N	0-5
900	0.0	0.0		0.04	0.07	N	0-5
1000	0.0	0.0		0.07	0.10	N	0-5
1100	0.0	0.0		0.06	0.15	W	0-5
1200	0.0	0.0	0.0	0.06	0.13	W	0-5
100	0.0	0.0		0.08	0.09	W	0-5
200	0.0	0.0		0.11	0.14	W	0-5
300	0.0	0.0		0.10	0.13	W	0-5
400	0.0	0.0		0.10	0.12	W	0-5
500	0.0	0.0		0.07	0.09	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: B-CAREY

Weather: CLEAR 40°F Date: 5-14-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
600	0.0	0.0		0.00	0.00	W	0-5
700	0.0	0.0		0.00	0.02	W	0-5
800	0.0	0.0		0.01	0.01	W	0-5
900	0.0	0.0		0.03	0.05	W	0-5
1000	0.0	0.0		0.02	0.02	W	0-5
1100	0.0	0.0		0.05	0.09	W	0-5
1200	0.0	0.0	0.0	0.07	0.11	W	0-5
100	0.0	0.0		0.07	0.10	W	0-5
200	0.0	0.0		0.06	0.09	W	0-5
300	0.0	0.0		0.08	0.14	W	0-5
400	0.0	0.0		0.04	0.06	W	0-5
500	0.0	0.0		0.03	0.10	W	0-5
600	0.0	0.0		0.03	0.08	W	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR

Date: 5-13-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
600	0.1	0.0		0.00	0.00	SW	0-5
700	0.0	0.0		0.00	0.01	SW	0-5
800	0.1	0.0		0.00	0.06	SW	0-5
900	0.0	0.0		0.00	0.02	SW	0-5
1000	0.0	0.0		0.01	0.05	SW	0-5
1100	0.2	0.0	0.0	0.01	0.01	SW	0-5
1200	0.6	0.0		0.02	0.02	SW	0-5
100	0.9	0.0		0.02	0.04	SW	0-5
200	0.7	0.0		0.00	0.03	SW	0-5
300	0.2	0.0		0.00	0.04	SW	0-5
400	0.0	0.0		0.00	0.00	SW	0-5
500	0.0	0.0		0.00	0.01	SW	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 40°F

Date: 5-10-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
6:00	0.0	0.0		0.00	0.00	W	0-5
7:00	0-0	0-0		0.01	0.01	W	0-5
8:00	0.0	0.0		0.01	0.03	W	0-5
9:00	0-0	0-0		0.01	0.02	W	0-5
NOTE	EXCAVATION, BLENDING AND PROCESSING						
	STOPPED AT 9:00.						

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: OVERCAST 60°F

Date: 5-9-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
600	0.0	0.0		0	—	NW	0-5
700	0.0	0.0		0.00	0.00	NW	0-5
800	0.0	0.0		0.00	0.00	NW	0-5
900	0.0	0.0		0.01	0.03	NW	0-5
1000	0.0	0.0		0.02	0.02	NW	0-5
1100	0.0	0.0	0.0	0.02	0.04	NW	0-5
1200	0.0	0.0		0.00	0.01	NW	0-5
100	0.1	0.0		0.00	0.00	NW	0-5
200	0.4	0.0		0.00	0.01	W	0-5
300	0.6	0.0		0.00	0.01	W	0-5
400	0.5	0.0		0.00	0.00	W	0-5
500	0.1	0.0		0.01	0.01	W	0-5
600	0.1	0.0		0.01	0.01	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: B. CAREY

Weather: CLEAR Date: 5-8-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.01	0.01	N	0-5
800	0.0	0.0		0.02	0.02	N	0-5
900	0.0	0.0		0.02	0.03	N	0-5
1000	0.0	0.0		0.01	0.04	N	0-5
1100	0.0	0.0	0.0	0.04	0.06	W	0-5
1200	0.0	0.0		0.02	0.04	W	0-5
100	0.1	0.0		0.02	0.07	W	0-5
200	0.1	0.0		0.03	0.05	W	0-5
300	0.1	0.0		0.03	0.04	W	0-5
400	0.1	0.0		0.02	0.04	W	0-5
500	0.1	0.0		0.01	0.01	W	0-5
600	0.1	0.0		0.01	0.01	W	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 55°F

Date: 5-7-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	SW	0-5
800	0.0	0.0		0.00	0.00	SW	0-5
900	0.0	0.0		0.00	0.00	SW	0-5
1000	0.2	0.0		0.02	0.03	W	0-5
1100	0.1	0.0	0.0	0.02	0.04	W	0-5
1200	0.0	0.0		0.02	0.06	W	0-5
100	0.1	0.0		0.04	0.06	W	0-5
200	0.0	0.0		0.04	0.07	W	0-5
300	0.0	0.0		0.03	0.08	W	0-5
400	0.1	0.0		0.05	0.10	W	0-5
500	0.1	0.0		0.04	0.07	W	0-5
600	0.2	0.0		0.04	0.08	W	0-5
700	0.0	0.0		0.02	0.05	W	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLOUDY 50°F

Date: 5-6-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
1100	0.0	0.0	0.0	0.00	0.00	SW	0-5
1200	0.0	0.0		0.00	0.00	SW	0-5
100	0.0	0.0		0.01	0.01	SW	0-5
200	0.0	0.0		0.01	0.01	SW	0-5
300	0.0	0.0		0.01	0.01	SW	0-5
400	0.0	0.0		0.01	0.01	SW	0-5
500	0.0	0.0		0.01	0.01	SW	0-5
600	0.0	0.0		0.01	0.01	SW	0-5

File: RGEAIR.WK3

GT ENGINEERING

Faxed 5/3

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heath Dept.

Project: RG&E West Station

Monitored by: B Trapp

Weather: warm

Date: 5/3/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	W	0-5
800	0.0	0.0		0.00	0.02	W	0-5
900	0.0	0.0		0.00	0.00	W	0-5
1000	0.0	0.0		0.00	0.00	N	0-5
1100	0.0	0.0	0.0	0.00	0.00	NW	0-5
1200	0.0	0.0		0.00	0.02	E	5-10
100	0.0	0.0		0.00	0.00	N	0-5
	Stopped	processing	material,	now only	excavating.		
200	0.0	0.0		0.00	0.02	NW	0-5
300	0.0	0.0		0.00	0.00	NW	5-10
400	0.0	0.0		0.00	0.00	W	0-5
500	0.0	0.0		0.00	0.00	NE	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: _____

Date: 5/2/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.00	0.00	N	0-5
800	0.0	0.0		0.00	0.00	E	0-5
900	0.0	0.0		0.00	0.00	E	0-5
1000	0.0	0.0		0.00	0.00	NE	0-5
1100	0.0	0.0	0.0	0.01	0.00	NE	0-5
1200	0.0	0.0		0.00	0.04	N	0-5
100	0.0	0.0		0.00	0.02	NE	0-5
200	0.0	0.0		0.00	0.00	W	0-5
300	0.0	0.0		0.00	0.02	N	0-5
400	0.0	0.0		0.01	0.01	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: Clear [redacted]

Date: 5/1/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.00	NE	0-5
8:00	0.0	0.0		0.00	0.00	NE	0-5
9:00	0.0	0.0		0.00	0.00	N	0-5
10:00	0.0	0.0		0.00	0.04	N	0-5
11:00	0.0	0.0		0.00	0.03	NW	0-5
12:00	0.0	0.0	0.0	0.00	0.00	NW	5-10
1:00	0.0	0.0		0.00	0.00	N	0-5
2:00	0.0	0.0		0.00	0.02	NE	0-5
3:00	0.0	0.0		0.00	0.00	NE	0-10
4:00	0.0	0.0		0.00	0.01	E	0-5
5:00	0.0	0.0		0.00	0.00	E	5-10
6:00	0.0	0.0		0.00	0.00	E	5-10

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: RAINY 50°F

Date: 4/30/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.02	N	0-5
8:00	0.0	0.0		0.00	0.00	N	0-5
9:00	0.0	0.0		0.00	0.00	N	0-5
10:00	0.0	0.0		0.02	0.04	N	0-5
11:00	0.0	0.0		0.02	0.02	N	0-5
12:00	0.0	0.0		0.02	0.00	NW	0-5
1:00	0.0	0.0		0.00	0.00	NW	0-5
2:00	0.1	0.0		0.00	0.00	NE	0-5
3:00	0.0	0.0		0.00	0.00	NE	0-5
4:00	0.0	0.0		0.00	0.00	N	0-5
5:00	0.0	0.0		0.00	0.00	NW	0-5
6:00	0.0	0.0		0.00	0.00	NW	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: OVERCAST 40°F

Date: 4-29-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	NW	0-5
900	0.0	0.0		0.00	0.00	NW	0-5
1000	0.0	0.0	0.0	0.01	0.01	NW	0-5
1100	0.0	0.0		0.01	0.01	NW	0-5
1200	0.0	0.0		0.01	0.01	N	0-5
100	0.0	0.0		0.02	0.02	N	0-5
200	0.0	0.0		0.02	0.04	NE	0-5
300	0.0	0.0		0.02	0.02	NE	0-5
400	0.0	0.0		0.02	0.00	N	5-10
5:00	0.0	0.0		0.02	0.00	N	0-5
6:00	0.0	0.0		0.01	0.01	NW	0-5
7:00	0.0	0.0		0.01	0.02	N	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 50°F

Date: 4-27-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		0.00	0.00	N	0-5
900	0.0	0.0		0.00	0.00	N	0-5
1000	0.0	0.0		0.01	0.02	N	0-5
1100	0.0	0.0		0.01	0.01	N	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: RAIN 45°F

Date: 4-26-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.00	NW	0-5
800	0.0	0.0		0.00	0.00	NW	0-5
900	0.0	0.0		0.00	0.00	NW	0-5
1000	0.0	0.0		0.00	0.00	NW	0-5
1100	0.0	0.0	0.0	0.00	0.00	NW	0-5
1200	0.0	0.0		0.00	0.00	NW	0-5
100	0.0	0.0		0.01	0.02	NW	0-5
200	0.0	0.0		0.00	0.00	NW	0-5
300	0.0	0.0		0.02	0.04	NW	0-5
400	0.0	0.0		0.01	0.03	NW	0-5
500	0.0	0.0		0.00	0.00	NW	0-5
600	0.0	0.0		0.00	0.01	NW	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: _____ Date: 4/25/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.00	N	0-5
8:00	0.0	0.0		0.00	0.02	N	5-10
9:00	0.0	0.0		0.00	0.00	NW	0-5
10:00	0.0	0.0		0.00	0.02	NW	0-5
11:00	0.0	0.0	0.0,0.0,0.0	0.00	0.00	N	0-5
12:00	0.0	0.0		0.02	0.02	N	0-5
1:00	0.1	0.0		0.02	0.02	N	0-5
2:00	0.0	0.0		0.02	0.00	NE	0-5
3:00	0.0	0.0		0.00	0.00	N	5-10
4:00	0.0	0.0		0.00	0.00	NE	0-5
5:00	0.0	0.0		0.02	0.04	N	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station — Monitored by: BRIAN TRAPP

Weather: CLEAR — Date: 4/24/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.00	N	0-5
8:00	0.0	0.0		0.00	0.02	N	0-5
9:00	0.0	0.0		0.06	0.06	S	0-5
10:00	0.0	0.0		0.06	0.02	NE	0-5
11:00	0.0	0.0		0.04	0.02	N	0-5
12:00	0.0	0.0	0.0,0.0,0.0	0.04	0.02	N	0-5
1:00	0.0	0.0		0.04	0.04	N	0-5
2:00	0.0	0.0		0.04	0.04	N	0-5
3:00	0.0	0.0		0.03	0.02	N	0-5
4:00	0.0	0.0		0.02	0.00	N	0-5
5:00	0.0	0.0		0.02	0.04	W	0-5
6:00	0.0	0.0		0.04	0.04	NW	5-10
7:00	0.0	0.0		0.04	0.06	W	5-10
8:00	0.0	0.0		0.04	0.04	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: RAIN

Date: 4/13/91

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.00	0.00	W	0-5
9:00	0.0	0.0		0.00	0.00	N	0-5
10:00	0.0	0.0		0.00	0.00	N	0-5
11:00	0.0	0.0	0.0,0.0	0.00	0.00	N	0-5
12:00	0.0	0.0		0.00	0.00	N	0-5
1:00	0.0	0.0		0.00	0.00	NW	0-5
2:00	0.0	0.0		0.00	0.00	NW	0-5
3:00	0.0	0.0		0.00	0.00	W	0-5
4:00	0.1	0.0		0.00	0.00	N	0-5
5:00	0.0	0.0		0.00	0.00	N	0-5
6:00	0.0	0.0		0.00	0.00	N	0-5
7:00	0.0	0.0		0.00	0.00	N	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 40°F

Date: 4-22-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.00	NW	0-5
8:00	0.0	0.0		0.00	0.00	NW	0-5
9:00	0.0	0.0		0.00	0.00	N	0-5
10:00	0.0	0.0		0.00	0.00	N	0-5
11:00	0.0	0.0	0.0,0.0,0.0	0.00	0.00	N	0-5
12:00	0.0	0.0		0.00	0.00	NW	7-10
1:00	0.0	0.0		0.00	0.00	NW	0-5
2:00	0.0	0.0		0.00	0.00	N	0-5
3:00	0.0	0.0		0.00	0.00	N	0-5
4:00	0.0	0.0		0.00	0.00	NW	0-5
5:00	0.0	0.0		0.00	0.00	NE	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: RAIN 45°F

Date: 4-20-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.00	0.00	W	0-5
9:00	0.0	0.0		0.00	0.00	W	0-5
10:00	0.0	0.0		0.00	0.00	W	0-5
11:00	0.0	0.0		0.01	0.02	W	0-5
12:00	0.0	0.0	0.0	0.01	0.04	W	0-5
1:00	0.0	0.0		0.02	0.04	W	0-5
2:00	0.0	0.0		0.01	0.01	W	0-5
3:00	0.0	0.0		0.00	0.00	W	0-5
4:00	0.0	0.0		0.00	0.00	W	0-5
NOTE:	NO BLENDING OR PROCESSING ACTIVITY OCCURRED YESTERDAY ON 4-19-96.						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B TRAPP

Weather: 40° Clear

Date: 4/18/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS – 1,2,3	RAS – 1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
8:00	0.0	0.0,0.0,0.0		0.00	0.01	N	0-5
9:00	0.0	0.0,0.0,0.0		0.00	0.00	NW	0-5
10:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
11:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.00	0.00	NE	0-5
12:00	0.0	0.0,0.0,0.0		0.00	0.00	S	0-5
1:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
2:00	0.2	0.0,0.0,0.0		0.02	0.08	N	0-5
3:00	0.1	0.0,0.0,0.0		0.00	0.00	N	0-5
4:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
5:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
6:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B TRAPP

Weather: Snow (light)

Date: 4-17-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.00	NW	0-5
8:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
9:00	0.0	0.0,0.0,0.0		0.00	0.03	NW	0-5
10:00	0.0	0.0,0.0,0.0		0.00	0.01	S	5-10
11:00	0.0	0.0,0.0,0.0		0.01	0.03	S	5-10
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.01	0.00	SW	5-10
1:00	0.0	0.0,0.0,0.0		0.01	0.02	NW	0-5
2:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
3:00	0.0	0.0,0.0,0.0		0.02	0.00	SW	0-5
4:00	0.0	0.0,0.0,0.0		0.01	0.00	S	5-10
5:00	0.0	0.0,0.0,0.0		0.01	0.00	S	0-5
6:00	0.0	0.0,0.0,0.0		0.01	0.01	S	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B TRAPP

Weather: 45° CLOUDY

Date: 4-16-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
800	0.0	0.0,0.0,0.0		0.00	0.00	S	7-10
900	0.0	0.0,0.0,0.0		0.02	0.04	N	0-5
10:00	0.0	0.0,0.0,0.0		0.02	0.00	N	0-5
11:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.02	0.10	N	0-5
12:00	0.0	0.0,0.0,0.0		0.02	0.02	N	0-5
1:00	0.0	0.0,0.0,0.0		0.04	0.08	N	0-5
2:00	0.0	0.0,0.0,0.0		0.04	0.02	NW	0-5
3:00	0.0	0.0,0.0,0.0		0.04	0.02	NW	0-5
4:00	0.0	0.0,0.0,0.0		0.02	0.00	N	0-5
5:30	0.0	0.0,0.0,0.0		0.02	0.00	NW	0-5
6:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
7:00	0.0	0.0,0.0,0.0		0.00	0.00	NW	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: 40°, Clear

Date: 4-15-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.03	0.04	N	0-5
8:00	0.0	0.0,0.0,0.0		0.02	0.04	N	0-5
9:00	0.0	0.0,0.0,0.0		0.04	0.03	NW	0-5
10:00	0.0	0.0,0.0,0.0		0.04	0.04	NW	0-5
11:00	0.0	0.0,0.0,0.0		0.04	0.04	N	0-5
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.04	0.06	N	0-5
1:00	0.0	0.0,0.0,0.0		0.04	0.04	N	0-5
2:00	0.0	0.0,0.0,0.0		0.05	0.04	NW	0-5
3:00	0.0	0.0,0.0,0.0		0.05	0.06	N	0-5
4:00	0.0	0.0,0.0,0.0		0.04	0.02	N	0-5
5:00	0.0	0.0,0.0,0.0		0.07	0.10	N	0-5
6:00	0.0	0.0,0.0,0.0		0.07	0.05	N	0-5
7:00	0.0	0.0,0.0,0.0		0.07	0.09	N	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: ~~CLEAR~~ RAIN - 35°F

Date: 4-13-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
12:00	0.0	0.0		0.02	0.03	NW	0-5
1:00	0.0	0.0		0.01	0.06	NW	0-5
2:00	0.0	0.0		0.03	0.04	NW	0-5
3:00	0.0	0.0		0.04	0.07	NW	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 40°F

Date: 4-12-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.04	0.09	W	0-5
8:00	0.0	0.0		0.05	0.08	W	0-5
9:00	0.0	0.0		0.04	0.11	W	0-5
10:00	0.0	0.0		0.06	0.10	W	0-5
11:00	0.0	0.0	0.0	0.07	0.09	W	0-5
12:00	0.0	0.0		0.09	0.13	W	0-5
1:00	0.0	0.0		0.08	0.14	W	0-5
2:00	0.0	0.0		.11	.15	W	0-5
3:00	0.0	0.0		.04	0.14	W	0-5
4:00	0.0	0.0		.07	0.10	W	0-5
5:00	0.0	0.0		.06	0.12	W	0-5
NOTE: ELEVATED PARTICULATE READINGS MAY HAVE BEEN							
	AFFECTED BY FOG.						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: _____ Date: 4/11/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.04	0.04	S	0-5
8:00	0.0	0.0,0.0,0.0		0.05	0.06	S	0-5
9:00	0.0	0.0,0.0,0.0		0.07	0.12	W	0-5
10:00	0.0	0.0,0.0,0.0		0.06	0.17	W	0-5
11:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.06	0.11	W	0-5
12:00	0.0	0.0,0.0,0.0		0.10	0.14	W	0-5
1:00	0.0	0.0,0.0,0.0		0.06	0.10	W	0-5
2:00	0.0	0.0,0.0,0.0		0.07	0.14	W	0-5
3:00	0.0	0.0,0.0,0.0		0.09	0.11	W	0-5
4:00	0.0	0.0,0.0,0.0		0.07	0.18	W	0-5
5:00	0.0	0.0,0.0,0.0		0.08	0.15	W	0-5
6:00	0.0	0.0,0.0,0.0		0.07	0.11	W	0-5
7:00	0.0	0.0,0.0,0.0		0.06	0.09	W	0-5
8:00	0.0	0.0,0.0,0.0		0.06	0.10	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B TRAIL

Weather: 29° clear

Date: 4/10/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS – 1,2,3	RAS – 1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.02	0.03	N	0-5
8:00	0.0	0.0,0.0,0.0		0.05	0.09	N	0-5
9:00	0.0	0.0,0.0,0.0		0.07	0.09	NW	0-5
10:00	0.0	0.0,0.0,0.0		0.07	0.07	N	0-5
11:00	0.0	0.0,0.0,0.0		0.03	0.05	W	0-5
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.05	0.05	N	0-5
1:00	0.0	0.0,0.0,0.0		0.05	0.07	N	0-5
2:00	0.0	0.0,0.0,0.0		0.03	0.01	N	0-5
3:00	0.1	0.0,0.0,0.0		0.05	0.09	N	0-5
4:00	0.1	0.0,0.0,0.0		0.05	0.05	N	0-5
5:00	0.0	0.0,0.0,0.0		0.05	0.03	S	0-5
6:00	0.0	0.0,0.0,0.0		0.03	0.01	S	7-10
7:00	0.0	0.0,0.0,0.0		0.03	0.02	S	7-10

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: Brian Trapp

Weather: Cool 40°F CLEAR Date: 4-9-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.01	NW	0-5
8:00	0.1	0.0		0.00	0.02	NW	0-5
9:00	0.0	0.0		0.01	0.01	NW	0-5
10:00	0.0	0.0		0.01	0.01	NW	0-5
11:00	0.0	0.0	0.0	0.03	0.05	W	0-5
12:00	0.0	0.0		0.06	0.09	W	0-5
1:00	0.1	0.0		0.07	0.11	NW	0-5
2:00	0.0	0.0		0.04	0.12	W	0-5
3:00	0.0	0.0		0.07	0.15	W	0-5
4:00	0.0	0.0		0.08	0.09	W	0-5
5:00	0.0	0.0		0.07	0.10	NW	0-5
6:00	0.0	0.0		0.05	0.07	NW	0-5
7:00	0-0	0.0		0.06	0.09	NW	0-5
NOTE:	ELEVATED PARTICULATE READINGS CAUSED BY AN UNUSUALLY DRY LOAD OF CARBON. CARBON SUPPLYER WILL WET MATERIAL DOWN PRIOR TO SHIPPING. ALSO AN ON SITE WATER TRUCK WILL BE AVAILABLE AS OF 4-10-96.						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 30°F

Date: 4-8-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0,0.0,0.0		0.02	0.02	N	0-5
9:00	0.0	0.0,0.0,0.0		0.01	0.02	NW	0-5
10:00	0.0	0.0,0.0,0.0		0.02	0.04	NW	0-5
11:00	0.0	0.0,0.0,0.0		0.02	0.02	N	0-5
12:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
1:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.02	0.01	W	0-5
2:00	0.0	0.0,0.0,0.0		0.03	0.04	N	0-5
3:00	0.0	0.0,0.0,0.0		0.02	0.01	NW	0-5
4:00	0.0	0.0,0.0,0.0		0.02	0.02	W	0-5
5:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
6:00	0.0	0.0,0.0,0.0		0.03	0.05	N	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: 32°

Date: 4/5/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.02	NW	0-5
8:00	0.0	0.0,0.0,0.0		0.00	0.01	NW	0-5
9:00	0.0	0.0 0.0,0.0		0.01	0.03	NW	0-5
10:00	0.0	0.0 0.0,0.0		0.04	0.05	NW	0-5
11:00	0.0	0.0, 0.0 0.0	0.0,0.0,0.0	0.03	0.07	NW	0-5
12:00	0.0	0.0 0.0,0.0		0.02	0.04	NW	0-5
1:00	0.0	0.0,0.0,0.0		0.01	0.02	NW	0-5
2:00	0.0	0.0,0.0,0.0		0.01	0.02	NW	0-5
3:00	0.0	0.0,0.0,0.0		0.00	0.01	NW	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: Brian Tapp

Weather:

Date: 4/4/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
0700	0.0	0.0,0.0,0.0		0.00	0.02	NW	0-5
0800	0.0	0.0,0.0,0.0		0.00	0.02	NW	0-5
0900	0.2	0.0,0.0,0.0		0.02	0.02	W	0-5
1000	0.1	0.0,0.0,0.0		0.02	0.04	W	0-5
1100	0.2	0.0,0.0,0.0		0.04	0.10	SW	0-5
1200	0.2	0.0,0.0,0.0	0.0,0.0,0.0	0.06	0.10	SW	0-5
100	0.0	0.0,0.0,0.0		0.04	0.08	SW	0-5
2:00	0.0	0.0,0.0,0.0		0.05	0.08	S	0-5
3:00	0.1	0.0,0.1,0.0		0.06	0.06	S	0-5
4:00	0.0	0.0,0.0,0.0		0.04	0.02	W	0-5
5:00	0.0	0.0,0.0,0.0		0.02	0.04	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: 29°

Date: 9-3-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
9:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
10:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
11:00	0.0	0.0,0.0,0.0		0.04	0.05	N	0-5
12:00	0.0	0.0,0.0,0.0		0.04	0.07	W	0-5
1:00	0.0	0.0,0.0,0.0		0.04	0.04	W	0-5
2:00	0.1	0.0,0.0,0.0	0.0,0.0,0.0	0.04	0.10	S	0-5
3:00	0.0	0.0,0.0,0.0		0.05	0.07	S	0-5
4:00	0.0	0.0,0.0,0.0		0.05	0.09	W	0-5
5:00	0.0	0.0,0.0,0.0		0.04	0.11	W	0-5
6:00	0.0	0.0,0.0,0.0		0.03	0.08	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: CLEAR 45°F

Date: 4-2-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.00	0.00	SW	0-5
9:00	0.1	0.0		0.01	0.02	SW	0-5
10:00	0.0	0.0		0.01	0.04	SW	0-5
11:00	0.0	0.0		0.00	0.01	SW	0-5
12:00	0.0	0.0	0.0	0.00	0.00	SW	0-5
1:00	0.0	0.0		0.00	0.02	SW	0-5
2:00	0.0	0.0		0.02	0.05	SW	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: CLEAR 45°F Date: 4-1-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.1	0.0		0.01	0.07	SW	0-5
9:00	0.0	0.0		0.01	0.04	SW	0-5
10:00	0.0	0.0		0.00	0.05	SW	0-5
11:00	0.1	0.0	0.0	0.02	0.04	SW	0-5
12:00	0.0	0.0		0.04	0.07	SW	0-5
1:00	0.0	0.0		0.01	0.03	SW	0-5
2:00	0.1	0.0		0.02	0.04	SW	0-5
3:00	0.1	0.0		0.00	0.01	SW	0-5
4:00	0.0	0.0		0.01	0.02	SW	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 45°F

Date: 3-29-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.01	0.04	W	0-5
9:00	0.0	0.0		0.01	0.05	W	0-5
10:00	0.0	0.0		0.01	0.03	W	6-10
11:00	0.0	0.0	0.0	0.01	0.02	W	6-10
12:00	0.0	0.0		0.02	0.07	W	6-10
1:00	0.0	0.0		0.02	0.08	W	6-10
2:00	0.0	0.0		0.01	0.03	W	6-10

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 35°F

Date: 3-28-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.00	0.00	NW	6-10
9:00	0.0	0.0		0.01	0.01	NW	6-10
10:00	0.0	0.0		0.01	0.02	NW	6-10
11:00	0.0	0.0		0.03	0.04	NW	6-10
12:00	0.0	0.0	0.0	0.02	0.04	NW	6-10
1:00	0.0	0.0		0.04	0.09	NW	6-10
2:00	0.0	0.0		0.04	0.07	NW	6-10
3:00	0.0	0.0		0.01	0.04	NW	6-10

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 20°F

Date: 3-27-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.01	0.05	W	6-10
9:00	0.1	0.0		0.00	0.07	W	6-10
10:00	0.1	0.0		0.00	0.09	W	6-10
11:00	0.1	0.0	0.0	0.01	0.04	W	6-10
12:00	0.0	0.0		0.01	0.06	W	0-5
1:00	0.0	0.0		0.01	0.05	W	0-5
2:00	0.0	0.0		0.03	0.05	W	0-5
3:00	0.0	0.0		0.03	0.04	W	0-5
4:00	0.0	0.0		0.00	0.01	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 30°F

Date: 3-26-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.01	0.05	W	6-10
9:00	0.0	0.0		0.01	0.02	W	6-10
10:00	0.0	0.0		0.01	0.03	SW	6-10
11:00	0.0	0.0	0.0	0.02	0.07	SW	6-10
12:00	0.0	0.0		0.03	0.07	SW	10-15
1:00	0.0	0.0		0.03	0.09	W	10-15
2:00	0.0	0.0		0.05	0.09	NW	10-15
3:00	0.0	0.0		0.04	0.08	NW	25-30
4:00	0.0	0.0		0.04	0.07	NW	25-30

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: OVERCAST 50°F

Date: 3-25-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.02	0.03	W	W 6-10
9:00	0.0	0.0		0.02	0.04	W	6-10
10:00	0.0	0.0	0.0	0.01	0.02	W	6-10
11:00	0.0	0.0		0.00	0.00	W	6-10
NOTE:	PROCESSING ACTIVITIES STOPPED AT 11:00						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: B. CAREY

Weather: SNOW 35°F

Date: 3-22-96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
12:00	0.0	0.0	0.0	—	—	SW	0-5
1:00	0.0	0.0		0.05	0.11	SW	0-5
2:00	0.1	0.0		0.08	0.10	SW	0-5
3:00	0.2	0.0		0.06	0.08	SW	0-5
4:00	0.1	0.0		0.07	0.15	SW	0-5
NOTE:	NO WORK PERFORMED ON 3-21-96.						
	PROCESSING TODAY DID NOT START UNTIL 12:00.						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: 35° Date: 3/20/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
9:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
10:00	0.0	0.0,0.0,0.0		0.00	0.02	NW	0-5
11:00	0.0	0.0,0.0,0.0		0.01	0.01	NW	0-5
12:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
1:00	0.0	0.0,0.0,0.0		0.04	0.04	N	0-5
2:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: Brian Trapp

Weather: 40° Date: 3/19/95

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
9:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
10:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
11:00	0.0	0.0,0.0,0.0		0.01	0.02	NW	05
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.00	0.00	N	0-5
1:00	0.0	0.0,0.0,0.0		0.02	0.03	N	0-5
2:00	0.0	0.0,0.0,0.0		0.00	0.01	N	10
3:00	0.0	0.0,0.0,0.0		0.01	0.02	N	6-7
4:00	0.0	0.0,0.0,0.0		0.01	0.01	N	10

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: 40°

Date: 3/18/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
9:00	0.0	0.0,0.0,0.0		0.01	0.01	N	0-5
10:00	0.0	0.0,0.0,0.0		0.01	0.02	NW	0-5
11:00	0.0	0.0,0.0,0.0		0.01	0.01	N	0-5
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.02	0.03	W	0-5
1:00	0.0	0.0,0.0,0.0		0.03	0.03	W	0-5
2:00	0.0	0.0,0.0,0.0		0.03	0.03	W	0-5
3:00	0.0	0.0,0.0,0.0		0.03	0.04	N	0-5
4:00	0.0	0.0,0.0,0.0		0.04	0.04	N	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: Brian Trapp

Weather: Humid, ≈ 35° Date: 3/15/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0,0.0,0.0		0.02	0.03	N	0-5
9:00	0.0	0.0,0.0,0.0		0.02	0.02	N	0-5
10:00	0.0	0.0,0.0,0.0		0.07	0.09	N	0-5
11:00	0.0	0.0,0.0,0.0		0.07	0.07	N	0-5

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station

Monitored by: BRIAN TRADD

Weather: 40°

Date: 3/14/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0,0.0,0.0		0.02	0.04	NE	0-5
9:00	0.0	0.0,0.0,0.0		0.04	0.04	E	0-5
10:00	0.2	0.0,0.0,0.0		0.04	0.03	E	0-5
11:00	0.1	0.0,0.0,0.0		0.04	0.04	E	0-5
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.04	0.07	E	0-5
1:00	0.0	0.0,0.0,0.0		0.05	0.05	NE	0-5
2:00	0.2	0.0,0.0,0.0		0.05	0.07	NE	0-5
3:00	0.3	0.0,0.0,0.0		0.05	0.05	NE	0-5
4:00	0.1	0.0,0.0,0.0		0.07	0.07	N	0-5
5:00	0.1	0.1,0.0,0.0		0.07	0.11	NE	0-5
6:00	0.0	0.0,0.0,0.0		0.11	0.11	N	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: 30° Date: 3/13/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.00	NE	0-5
8:00	0.1	0.0,0.0,0.0		0.00	0.02	N	0-5
9:00	0.0	0.0,0.0,0.0		0.00	0.02	NE	5
10:00	0.1	0.0,0.0,0.0		0.02	0.04	N	0-5
11:00	0.0	0.0,0.0,0.0		0.02	0.02	NE	0-5
12:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.04	0.04	NE	0-5
1:00	0.1	0.0,0.0,0.0		0.02	0.04	NE	0-5
2:00	0.2	0.0,0.0,0.0		0.03	0.04	E	0-5
3:00	0.1	0.0,0.0,0.0		0.02	0.02	E	0-5
4:00	0.0	0.0,0.0,0.0		0.02	0.02	E	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TKAPP

Weather: WARMER, HI OF 40 Date: _____

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
12:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.02	0.02	SE	0-5
1:00	0.0	0.0, 0.0, 0.0		0.02	0.04	SE	0-5
2:00	0.3	0.1, 0.0, 0.0		0.02	0.04	SE	0-5
3:00	0.4	0.0, 0.0, 0.0		0.03	0.04	SE	0-5
4:00	0.1	0.0, 0.0, 0.0		0.02	0.04	SE	0-5
5:00	0.0	0.0, 0.0, 0.0		0.02	0.02	S	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: Brian Trapp

Weather: 20° Date: 3/11/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0,0.0,0.1		0.00	0.00	E	0-5
9:00	0.0	0.1,0.0,0.1		0.00	0.02	E	0-5
10:00	0.0	0.0,0.0,0.0		0.02	0.02	S	0-5
11:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.04	0.04	E	0-5
12:00	0.2	0.0,0.0,0.0		0.04	0.04	SE	0-5
1:00	0.1	0.0,0.0,0.0		0.03	0.02	S	0-5
2:00	0.0	0.0,0.0,0.0		0.04	0.04	S	0-5
3:00	0.0	0.0,0.0,0.0		0.02	0.04	S	0-5
	note: no processing on 3/5/96						

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: Brian Trapp

Weather: 15° Date: 3/7/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.01	W	0-5
8:00	0.1	0.0,0.0,0.0		0.00	0.01	W	0-5
9:00	0.0	0.0,0.0,0.0		0.01	0.01	W	0-5
10:00	0.0	0.0,0.0,0.0		0.02	0.02	W	0-5
11:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.02	0.02	W	0-5
12:00	0.0	0.0,0.0,0.0		0.02	0.02	N	0-5
1:00	0.0	0.0,0.0,0.0		0.01	0.02	N	0-5
2:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
3:00	0.2	0.0,0.0,0.0		0.02	0.02	NW	0-5
4:00	0.0	0.0,0.0,0.0		0.02	0.02	NW	0-5
5:00	0.0	0.0,0.0,0.0		0.02	0.04	W	0-5

File: RGEAIR.WK3

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TRAMP

Weather: 24° Date: 3/6/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.01	W	0-5
8:00	0.1	0.1,0.0,0.0		0.01	0.01	W	0-5
9:00	0.0	0.0,0.0,0.0		0.01	0.01	W	0-5
10:00	0.1	0.0,0.0,0.0		0.00	0.01	W	0-5
11:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.02	0.02	NW	0-5
12:00	0.0	0.0,0.0,0.0		0.00	0.00	NW	0-5
1:00	0.0	0.0,0.0,0.0		0.01	0.01	NW	0-5
2:00	0.0	0.0,0.0,0.0		0.01	0.01	W	0-5
3:00	0.0	0.0,0.0,0.0		0.00	0.00	W	0-5
4:00	0.0	0.0,0.0,0.0		0.00	0.01	W	0-5
5:00	0.0	0.0,0.0,0.0		0.01	0.01	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: 25°. Snow Date: 3/5/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0,0.0,0.0		0.00	0.00	NW	0-5
8:00	0.0	0.0,0.0,0.0		0.00	0.00	N	0-5
9:00	0.0	0.0,0.0,0.0		0.02	0.04	N	0-5
10:00	0.0	0.0,0.0,0.0		0.04	0.04	N	0-5
11:00	0.2	0.0,0.0,0.0		0.04	0.06	NW	0-5
12:00	0.1	0.0,0.0,0.0		0.04	0.04	W	0-5
1:00	0.0	0.0,0.0,0.0		0.04	0.04	W	0-5
2:00	0.0	0.0,0.0,0.0	0.0,0.0,0.0	0.02	0.02	W	0-5
3:00	0.0	0.0,0.0,0.0		0.02	0.04	W	0-5

File RGEAIR.WK3

GT ENGINEERING

PLEASE DELIVER TO: JOE ALBERT, Monroe County Heatlh Dept.

Project: RG&E West Station Monitored by: Brian T.

Weather: Cap 35 Date: 3/4/96

AIR MONITORING LOG

Time	VOC (ppmv – PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS–1,2,3	RAS–1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0, 0.0, 0.0		NA	NA	NW	0-5
9:00	0.0	0.0, 0.0, 0.0		0.00	0.04	NW	0-5
10:00	0.0	0.0, 0.0, 0.0		0.04	0.04	NW	0-5
11:00	0.0	0.0, 0.0, 0.0		0.06	0.07	NW	0-5
12:00	0.0	0.0, 0.0, 0.0		0.07	0.09	NW	0-5
1:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.06	0.08	NW	0-5
2:00	0.0	0.0, 0.0, 0.0		0.06	0.06	NW	0-5
3:00	0.0	0.0, 0.0, 0.0		0.06	0.07	NW	0-5
4:00	0.0	0.0, 0.0, 0.0		0.06	0.07	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

To: Joe Albert

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN T

Weather: Cold 15°F

Date: 3/1/96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0, 0.0, 0.0		0.00	0.00	W	0-5
9:00	0.0	0.0, 0.0, 0.0		0.00	0.00	W	0-5
10:00	0.0	0.0, 0.0, 0.0		0.00	0.00	W	0-5
11:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.00	0.00	W	0-5
12:00	0.0	0.0, 0.0, 0.0		0.00	0.00	NW	8
1:00	0-1	0.0, 0.0, 0.0		0.02	0.02	W	0-5
2:00	0.0	0.0, 0.0, 0.0		0.02	0.02	W	0-5
NOTE:	EXCAVATION, BLENDING, PROCESSING STOPPED						
	AT 2:00 PM.						

File: RGEAIR.WK3

GT ENGINEERING

To: Joe Albert

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: Snow 10°

Date: 2/29/96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0, 0.0, 0.0		0.00	0.01	SE	0-5
8:00	0.1	0.0, 0.0, 0.0		0.01	0.01	S	0-5
9:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.00	0.00	S	0-5
10:00	0.2	0.0, 0.0, 0.0		0.01	0.01	S	0-5
11:00	0.4	0.0, 0.0, 0.0		0.01	0.01	S	0-5
12:00	0.4	0.0, 0.0, 0.0		0.00	0.01	SE	0-5
1:00	0.3	0.0, 0.1, 0.1		0.00	0.03	SE	0-5
2:00	0.0	0.0, 0.0, 0.0		0.01	0.03	W	0-5
	— STOPPED —						

File: RGEAIR.WK3

GT ENGINEERING

To Joe Albert

Air Monitoring Log

Project: RG&E West Station

Monitored by: Brian Trapp

Weather: cool, cloudy. Mist + snow

Date: 2/28/96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed	
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak			
7:00	0.0	0.0, 0.0, 0.0		0.00	0.00	N	0-5	
8:00	0.0	0.0, 0.0, 0.0		0.00	0.00	NW	0-5	
9:00	0.0	0.0, 0.0, 0.0		0.04	0.04	W	0-5	* recalibrated PID
10:00	0.0	0.0, 0.0, 0.0		0.04	0.06	W	8	
11:00	0.0	0.0, 0.0, 0.0		0.04	0.06	NW	0-5	
12:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.06	0.08	NW	0-5	
1:00	0.0	0.0, 0.0, 0.0		0.06	0.06	W	0-5	
2:00	0.0	0.0, 0.0, 0.0		0.06	0.08	W	0-5	
3:00	0.0	0.0, 0.0, 0.0		0.01	0.08	W	0-5	

File: RGEAIR.WK3

GT Engineering

To: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: RAINY

Date: 2/27/96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0, 0.0, 0.0		0.00	0.00	W	0-5
8:00	0.0	0.0, 0.0, 0.0		0.00	0.01	W	0-5
9:00	0.0	0.0, 0.0, 0.0		0.00	0.00	W	0-5
10:00	0.0	0.0, 0.0, 0.0		0.00	0.00	W	0-5
11:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.00	0.01	W	0-5
12:00	0.0	0.0, 0.0, 0.0		0.01	0.02	W	0-5
1:00	0.0	0.0, 0.0, 0.0		0.01	0.02	W	0-5
2:00	0.0	0.0, 0.0, 0.0		0.01	0.02	W	0-5
	STOPPED PROCESSING						

File: RGEAIR.WKS

GT ENGINEERING

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN TRAPP

Weather: Cool

Date: 2-26-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0, 0.0, 0.0		0.00	0.02	W	0-5
8:00	0.0	0.0, 0.0, 0.0		0.01	0.04	W	0-5
9:00	0.0	0.0, 0.0, 0.0		0.00	0.03	W	0-5
10:00	0.0	0.0, 0.0, 0.0		0.01	0.03	W	0-5
11:00	0.0	0.0, 0.0, 0.0		0.01	0.04	W	0-5
12:00	0.0	0.0, 0.0, 0.0	0.0, 0.0, 0.0	0.01	0.04	W	0-5
	STOPPED PROCESSING SOIL & TARS						

File: RGEAIR.WK3

GT ENGINEERING

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: OVERCAST 32°F

Date: 2-23-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
7:00	0.0	0.0		0.00	0.04	W	0-5
8:00	0.1	0.0		0.00	0.01	W	0-5
9:00	0.0	0.0		0.00	0.01	W	0-5
10:00	0.2	0.0		0.01	0.03	W	0-5
11:00	0.0	0.0		0.01	0.02	W	0-5
12:00	0.0	0.0		0.01	0.05	W	0-5
1:00	0.3	0.0		0.03	0.06	W	0-5
2:00	0.0	0.0		0.00	0.02	W	0-5
3:00	0.0	0.0	0.0	0.00	0.01	W	0-5
4:00	0.0	0.0		0.00	0.00	W	0-5
5:00	0.2	0.0		0.01	0.01	W	0-5
6:00	0.0	0.0		0.01	0.00	W	0-5
7:00	0.0	0.0		0.00	0.00	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: OVERCAST, FOG, 32°F

Date: 2-22-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
7:00	0.1	0.0		0.00	0.01	W	0-5
8:00	0.0	0.0		0.00	0.00	W	0-5
9:00	0.0	0.0		0.00	0.02	W	0-5
10:00	0.0	0.0		0.00	0.00	W	0-5
NOTE:	EXCAVATION, BLENDING, PROCESSING ACTIVITIES						
	CEASED AT		10:00				

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: OVERCAST, FOG, 38°F.

Date: 2-21-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
700	0.0	0.0		0.01	0.04	W	0-5
800	0.2	0.0		0.03	0.08	W	0-5
900	0.0	0.0		0.01	0.04	W	0-5
1000	0.0	0.0		0.00	0.01	W	0-5
1100	0.0	0.0		0.01	0.03	W	0-5
1200	0.0	0.0		0.01	0.05	W	0-5
100	0.0	0.0		0.01	0.02	W	0-5
200	0.0	0.0		0.00	0.00	W	0-5
300	0.0	0.0		0.04	0.12	W	0-5
400	0.0	0.0	0.0	0.05	0.12	W	0-5
500	0.0	0.0		0.07	0.13	W	0-5
NOTE:	A HEAVY FOG OCCURRED IN AFTERNOON WHICH						
	INCREASED THE DUST METER READINGS. NO						
	VISIBLE DUST WAS BEING CREATED DURING						
	THIS TIME. THEREFORE, IT IS BELIEVED THAT						
	THE ELEVATED READINGS WERE A DIRECT						
	RESULT OF THE FOG.						

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: RAIN 37°F

Date: 2-20-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.01	0.03	W	0-5
9:00	0.1	0.0		0.05	0.02	W	0-5
10:00	0.0	0.0		0.02	0.04	SW	0-5
11:00	0.2	0.0	0.0	0.02	0.03	W	0-5
12:00	0.0	0.0		0.06	0.09	SW	0-5
1:00	0.0	0.0		0.01	0.05	SW	0-5
2:00	0.2	0.0		0.00	0.05	SW	0-5
3:00	0.3	0.0		0.01	0.07	W	0-5
4:00	0.2	0.0		0.01	0.03	W	0-5
5:00	0.0	0.0		0.01	0.01	W	0-5

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 30°F

Date: 2-19-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
1:00	0.1	0.0	0.0	—	—	SW	0-5
2:00	0.1	0.0		0.05	0.07	N	0-5
3:00	0.2	0.0		0.06	0.13	N	0-5
4:00	0.3	0.0		0.04	0.09	NW	0-5
5:00	0.1	0.0		0.05	0.10	NW	0-5
NOTE:	EXCAVATING, BLENDING, AND PROCESSING ACTIVITIES						
	STARTED AT 1:00 PM.						

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 10°F

Date: 2-16-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
8:00	0.1	0.0		0.00	0.04	SW	0-5
9:00	0.1	0.0		0.01	0.03	SW	0-5
10:00	0.0	0.0		0.00	0.01	SW	0-5
11:00	0.2	0.0		0.00	0.05	SW	0-5
12:00	0.0	0.0	0.0	0.02	0.04	SW	0-5
1:00	0.0	0.0		0.01	0.01	SW	0-5
2:00	0.2	0.0		0.00	0.07	SW	0-5
3:00	0.1	0.0		0.00	0.02	SW	0-5
4:00	0.1	0.0		0.00	0.01	SW	0-5

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 150F

Date: 2-15-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
800	0.0	0.0		—	—	W	0-5
900	0.0	0.0		0.00	0.02	W	0-5
1000	0.0	0.0		0.00	0.03	W	0-5
1100	0.0	0.0	0.0	0.00	0.00	W	0-5
1200	0.0	0.0		0.00	0.01	W	0-5
100	0.0	0.0		0.00	0.03	W	0-5
200	0.0	0.0		0.00	0.02	W	0-5
300	0.0	0.0		0.00	0.05	W	0-5
400	0.0	0.0		0.00	0.06	W	0-5
500	0.0	0.0		0.00	0.04	W	0-5
600	0.0	0.0		0.00	0.02	W	0-5

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: SNOW 15°F

Date: 2-14-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
8:00	0.0	0.0		0.00	0.02	SW	0-5
9:00	0.0	0.0		0.00	0.04	SW	0-5
10:00	0.0	0.0		0.00	0.02	SW	0-5
11:00	0.0	0.0		0.00	0.01	SW	0-5
12:00	0.0	0.0		0.00	0.06	SW	0-5
1:00	0.0	0.0		0.00	0.07	SW	0-5
2:00	0.0	0.0		0.00	0.01	SW	0-5
3:00	0.0	0.0	0.0	0.00	0.03	SW	0-5
4:00	0.0	0.0		0.00	0.01	SW	0-5
5:00	0.0	0.0		0.00	0.02	SW	0-5
6:00	0.0	0.0		0.00	0.05	SW	0-5
7:00	0.0	0.0		0.00	0.00	SW	0-5

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: SNOW 8°F

Date: 2-13-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
9:00	0.0	0.0		—	—	SW	6-10
10:00	0.0	0.0		0.00	0.02	SW	0-10
11:00	0.0	0.0		0.00	0.03	SW	6-10
12:00	0.0	0.0	0.0	0.00	0.01	SW	0-5
1:00	0.0	0.0		0.00	0.03	SW	0-5
2:00	0.0	0.0		0.00	0.02	SW	0-5
3:00	0.0	0.0		0.00	0.01	SW	0-5
4:00	0.0	0.0		0.00	0.02	SW	0-5

NOTE EXCAVATION, BLENDING, PROCESSING ACTIVITIES STARTED AT 9:00 AM.

ADDITIONAL AIR MONITORING COMPLETED DURING BLENDING AND PROCESSING OPERATIONS:

SPACE ABOVE BLENDED MATERIAL IN MIXING TANK: 0.0-0.1 PPM

BREATHING ZONE IMMEDIATELY ADJACENT TO MIXING TANK: 0.0 PPM

5FT DOWNWIND OF MIXING TANK DURING BLENDING: 0.0 PPM

5FT DOWNWIND OF SCREENING PLANT FINISHED PRODUCT CHUTE: 0.0 PPM

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: PARTLY CLOUDY 10°F

Date: 2-12-96

Time	VOC (ppmv - PID)			Downwind Particulates (mg/m³)		Wind Direction	Wind Speed
	Breathing Zone	SAS-1,2,3	RAS-1,2,3	Avg (1 Hr)	Peak		
1:00	0.0	0.0	0.0	0.0	0.1	SW	6-10
2:00	0.0	0.0	—	0.0	0.1	SW	6-10
3:00	0.0	0.0	—	0.0	0.2	SW	6-10
NOTE	EXCAVATION DID NOT START UNTIL 1:00 PM.						
	EXCAVATION ACTIVITIES STOPPED AT 3:00 PM.						
	NO BLENDING OR PROCESSING OCCURRED TODAY						

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: OVERCAST 35°F

Date: 2-9-96

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.2				
	DOWNWIND		0.00	0.01		
9:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.1				
	DOWNWIND		0.00	0.02		
10:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.03		
11:00	SAS-1,2,3	0.0			SW	0-5
	RAS-1,2,3	0.0			-	
	BR. ZONE					
	DOWNWIND		0.00	0.04		
12:00	SAS-1,2.3	0.0			SW	0-5
	BR. ZONE	0.2				
	DOWNWIND		0.00	0.02		
1:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.01		
2:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.03		
3:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.4				
	DOWNWIND		0.00	0.03		
4:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.3				
	DOWNWIND		0.00	0.02		

File: RGEA3R.WK3

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: OVERCAST 38°F Date: 2-8-96

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	SAS-1,2,3 RAS 1,2,3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	002		
9:00	SAS-1,2,3	0.0				
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.04	SW	0-5
10:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.04	SW	0-5
11:00	SAS-1,2,3	0.0			SW	0-5
	BR ZONE	0.0				
	DOWNWIND		0.00	0.05		
12:00	SAS-1,2.3	0.0			W	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.03		
1:00	SAS-1,2,3	0.0			W	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.07		
2:00	SAS-1,2,3	0.0			SW	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.04		
3:00	SAS-1,2.3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.05		
4:00	SAS-1,2,3	0.0			SW	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.00	0.06		
NOTE:	AIR MONITORING ON 2/7 DURING BLENDING ACTIVITIES					
	RESULTS WERE 0.0-1.0 PPMV PID IMMEDIATELY					
	ADJACENT TO BLENDING TANK.					
ALSO PLEASE NOTE THAT 2/7 PARTICULATE DATA WAS REPORTED ONE DECIMAL PLACE OFF.						

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: CLOUDY 22°F Date: 2-7-96

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	SAS-1,2,3	0.0			SW	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.3	SW	6-10
9:00	SAS-1,2,3	0.0			SW	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.2		
10:00	SAS-1,2,3	0.0			W	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.2		
11:00	SAS-1,2,3	0.0			W	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.4		
12:00	SAS-1,2,3	0.0			W	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.3		
1:00	SAS-1,2,3	0.0			W	6-10
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.2		
2:00	SAS-1,2,3	0.0			SW	4-10
	BR. ZONE	0.5				
	DOWNWIND		0.0	0.4		
3:00	SAS-1,2,3	0.0			W	0-5
	BR. ZONE	1.0				
	DOWNWIND		0.0	0.1		
4:00	SAS-1,2,3	0.0			W	6-10
	BR. ZONE	1.3				
	DOWNWIND		0.0	0.4		
5:00	SAS-1,2,3	0.0			W	0-5
	BR ZONE	0.7				
	DOWNWIND		0.0	0.2		

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: OVERCAST 100°F Date: 2-6-96

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
12:00	SAS-1,2,3	0.0			W	0-5
1:	BR. ZONE	0.1				
1:00	DOWNWIND		0.0	0.3	W	0-5
2:00	SAS-1,2,3	0.0			W	0-5
	DOWNWIND		0.0	0.2	W	0-5
3	BR. ZONE	0.0				
3:00	SAS-1,2,3	0.0			W	0-5
	BR ZONE	0.0				
	DOWNWIND		0.0	0.2	W	0-5
4:00	SAS-1,2,3	0.0			W	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.3	W	0-5
5:00	SAS-1,2,3	0.0			W	0-5
	BR. ZONE	0.0				
	DOWNWIND		0.0	0.1	W	0-5
NOTE:	EXCAVATION OF TARS	STARTED AT	12:00.			

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 35°F

Date: 12-15-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.00	SW	0-5
9:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
	BAS-1,2,3	0.0				
12:00	DOWNWIND		0.00	0.00	SW	0-5
1:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
NOTE:	ONLY TRUCK LOADING TODAY.					
	FIRST PHASE OF FIELD WORK COMPLETE					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: RAIN 20°F

Date: 12-14-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.00	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	~~SAS~~ BR. ZONE	0.0				
9:00	DOWNWIND		0.00	0.00	W	0-5
2:00	DOWNWIND		0.00	0.00	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
	PAS-1,2,3	0.0				
NOTE:	ONLY TRUCK LOADING TODAY.					
	NO WORK OCCURRED ON 12/13/95					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 12°F

Date: 12-12-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
10:00	DOWNWIND		0.00	0.00	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BK. ZONE	0.0				
11:00	DOWNWIND		0.00	0.00	W	0-5
	BAS-1,2,3	0.0				
NOTE:	ONLY THREE TRUCKS LOADED TODAY.					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: SNOW, CLOUDS, 25°F

Date: 12-11-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.00	SW	0-5
9:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
12:00	DOWNWIND		0.00	0.00	SW	0-5
1:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
	RAS-1,2,3	0.0				
NOTE:	ONLY TRUCK LOADING OCCURRED TODAY					

File: RGEAIR.WK3

GT ENGINEERING

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: Cold, snowing Date: 12/8/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.00	SE	0-5
9:00	DOWNWIND		0.00	0.00	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
10:00	DOWNWIND		0.00	0.00	SW	0-5
11:00	DOWNWIND		0.00	0.00	SE	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
11:45	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
	BREATHING	0.0				
12:00	DOWNWIND		0.00	0.00	SE	0-5
1:00	DOWNWIND		0.00	0.00	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	FINISHED AT	1:30				

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: Cold, Date: 12/7/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.00	SE	0-5
9:00	DOWNWIND		0.00	0.00	SE	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
10:00	DOWNWIND		0.00	0.00	S	0-5
11:00	DOWNWIND		0.02	0.02	SE	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
12:00	DOWNWIND		0.00	0.00	S	0-5
1:00	DOWNWIND		0.00	0.00		
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
2:00	DOWNWIND		0.00	0.00	S	0-5
	BREATHING	0.0				
2:45	STOPPED [redacted]	LOADING TRUCKS				

File RGEAIR.WK3

GT ENGINEERING

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: CLEAR, COLD Date: 12/6/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.02	0.02	NE	0-5
9:00	DOWNWIND		0.00	0.00	NE	0-5
	SAS-1	0.0				
	SAS-2	0.3				
	SAS-3	0.0				
10:00	DOWNWIND		0.00	0.00	N	0-5
11:00	DOWNWIND		0.00	0.00		
	SAS-1	0.2	(battery low)		NE	0-5
	SAS-2	0.1				
	SAS-3	0.1				
	BREATHING	0.2				
11:30	RAS-1	0.1				
	RAS-2	0.1				
	RAS-3	0.1				
12:06	DOWNWIND		0.00	0.00	S	0-5
1:00	DOWNWIND		0.00	0.00	NE	6
2:00	DOWNWIND		0.00	0.00	N	0-5
	- STOPPED LOADING TRUCKS					

File: RGEAIR.WK3

GT ENGINEERING

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: Clear, cool Date: 12/5/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.0	0.0	N	0-5
9:00	DOWNWIND		0.0	0.0	N	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
10:00	DOWNWIND		0.0	0.2	N	0-5
11:00	DOWNWIND		0.0	0.0	N	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
11:15	RAS-1	0.1				
	RAS-2	0.0				
	RAS-3	0.0				
12:00	DOWNWIND		0.0	0.0	W	0-5
1:00	DOWNWIND		0.0	0.0	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
2:00	DOWNWIND		0.0	0.0	NW	0-5
	NO MORE LOADING	TRUCKS				

File: RGEAIR.WK3

Note: Only loading trucks today. Screening plant is gone.

GT ENGINEERING

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN TRAPP

Weather: Cool, cloudy Date: 12/4/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.02	0.03	W	0-5
9:00	DOWNWIND		0.03	0.03	W	6
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
10:00	DOWNWIND		0.02	0.03	NW	0-5
11:00	DOWNWIND		0.03	0.03	SE	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
12:00	DOWNWIND		0.02	0.02	S	0-5
1:00	DOWNWIND		0.02	0.02	SE	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
2:00	DOWNWIND		0.03	0.03	S	0-5
3:00	DOWNWIND		0.03	0.03	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
STOP WORK AT 3:30						

File: RGEAIR.WK3 Note: NA processing or loading soils today.

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: CLOUDY 38°F Date: 12-1-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.04	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.01	0.03	SW	0-5
10:00	DOWNWIND		0.01	0.07	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.02	0.09	SW	0-5
	RAS-1, 2, 3	0.0				
12:00	DOWNWIND		0.02	0.05	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.04	0.10	SW	0-5
2:00	DOWNWIND		0.04	0.06	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.03	0.07	SW	0-5
NOTE	EXCAVATING AND PROCESSING STOPPED AT 3:00 PM.					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: SUN/CLOUDS 25°F Date: 11-30-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.09	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.00	0.05	NW	0-5
1:00	DOWNWIND		0.01	0.07	NW	0-5
2:00	DOWNWIND		0.00	0.01	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.00	0.00	NW	0-5
	RAS-1, 2, 3	0.0				
4:00	DOWNWIND		0.00	0.03	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
5:00	DOWNWIND		0.00	0.00	NW	0-5
NOTE:	NO EXCAVATING OR PROCESSING OCCURRED FROM THE					
	PERIOD OF 9:00 TO 1:00.					
	NO TRUCK LOADING TODAY.					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: PARTLY CLOUDY 25°F Date: 11-29-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
12:00	DOWNWIND		0.02	0.04	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.01	0.03	SW	0-5
2:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.01	0.02	SW	0-5
4:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	RAS-1,2,3	0.0				
	BR. ZONE	0.0				
5:00	DOWNWIND		0.00	0.00	SW	0-5
NOTE:	EXCAVATION AND PROCESSING ACTIVITIES DID NOT					
	START UNTIL ~~12:00~~ 11:00.					
	NO TRUCK LOADING OCCURRED TODAY.					

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY, SNOW, RAIN 30°F

Date: 11-28-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.02	0.05	SW	6-10
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.02	0.07	SW	6-10
10:00	DOWNWIND		0.01	0.04	SW	6-10
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.01	0.05	SW	6-10
NOTE:	EXCAVATION AND PROCESSING STOPPED AT 11:00.					
	NO LOADING OF TRUCKS OCCURRED TODAY.					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CARLEY

Weather: CLOUDY 45°F Date: 11-27-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.03	0.07	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.02	0.04	W	0-5
12:00	DOWNWIND		0.03	0.09	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
	RAS-1, 2, 3	0.0				
3:00	DOWNWIND		0.01	0.05	SW	0-5
4:00	DOWNWIND		0.03	0.07	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
5:00	DOWNWIND		0.03	0.06	SW	0-5
NOTE:	AIR MONITORING REFLECTS THE TIME PERIODS DURING WHICH TRUCK LOADING OR EXCAVATION AND PROCESSING TOOK PLACE.					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: CLOUDY 45°F Date: 11-22-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.01	0.02	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR ZONE	0.0				
9:00	DOWNWIND		0.01	0.03	SW	0-5
10:00	DOWNWIND					
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.02	0.04	SW	0-5
12:00	DOWNWIND		0.01	0.03	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
	RAS-1,2,3	0.0				
1:00	DOWNWIND		0.03	0.07	SW	0-5
2:00	DOWNWIND		0.02	0.09	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.01	0.03	W	0-5

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: RAIN, SNOW 35°F Date: 11-21-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.03	0.05	SW	0-5
9:00	DOWNWIND		0.03	0.06	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
10:00	DOWNWIND		0.02	0.04	SW	0-5
11:00	DOWNWIND		0.03	0.05	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
	RAS-1,2,3	0.0				
12:00	DOWNWIND		0.04	0.07	SW	0-5
1:00	DOWNWIND		0.02	0.05	SW	0-5
	SAS-1	0.0			SW	0-5
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
2:00	DOWNWIND		0.02	0.03	SW	0-5
3:00	DOWNWIND		0.03	0.05	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
4:00	DOWNWIND		0.01	0.03	SW	0-5
5:00	DOWNWIND		0.01	0.04	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 40°F

Date: 11-20-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.02	0.05	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
4:00	DOWNWIND		0.01	0.03	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR ZONE	0.0				
	RAS-1,2,3	0.0				
WORK COMPLETED TODAY WAS LOADING TRUCKS AT						
8:00 AM AND PROCESSED FOR 1 HOUR AT 4:00 PM						

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: COLD, CLEAR 30°F Date: 11/17/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.10	0.10	SW	0-5
9:00	DOWNWIND		0.09	0.10	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
10:00	DOWNWIND		0.10	0.10	SE	0-5
11:00	DOWNWIND		0.10	0.10	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
12:00	DOWNWIND		0.09	0.10	SW	0-5
1:00	DOWNWIND		0.04	0.04	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	Breathing	0.0				
2:00	DOWNWIND		0.04	0.04	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
1:30	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
3:00	DOWNWIND		0.04	0.07	S	0-5
4:00	DOWNWIND		0.03	0.08	S	0-5
~~5:00~~	DOW SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR-ZONE	0.0				
5:00	DOWNWIND		0.04	0.07	S	0-5

File: RGEAIR.WK3

TO: JOE ALBERT

Air Monitoring Log

Project: RG&E West Station Monitored by:

Weather: COOL Date: 11/16/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.10	0.10	* S	mostly, smart 0-5
9:00	DOWNWIND		0.10	0.10	S	mostly, smart 0-5
* NO PROBING FROM 9:45 TO 2:30 - SCREENING PLANT DOWN						
12:00	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
3:00	DOWNWIND		0.05	0.03	S	0-5
3:30	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
4:00	DOWNWIND		0.00	0.03	S	0-5

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: SNOW 30°F Date: 11-15-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.02	0.04	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.03	0.05	SW	0-5
10:00	DOWNWIND		0.06	0.10	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.07	0.12	SW	0-5
	RAS-1, 2, 3	0.0				
12:00	DOWNWIND		0.07	0.10	SW	05
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR ZONE	0.0				
1:00	DOWNWIND		0.06	0.08	SW	0-5
2:00	DOWNWIND	0.0	0.07	0.11	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.08	0.12	SW	0-5
4:00	DOWNWIND		0.09	0.11	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
NOTE: HEAVY SNOW AND FOG WAS CAUSING ELEVATED READINGS. NO VISIBLE DUST WAS DETECTED DURING WORK.						

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station Monitored by:

Weather: Cool Date: 11/4/95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.08	0.10	E	7 mph
	SAS-1	0.0				
	SAS-2	0.0				
	SAS 3	0.0				
	BREATHING	0.0				
9:00	DOWNWIND		0.08	0.09	S	0-5 mph
10:00	DOWNWIND		0.10	0.10	S	0-5
	SAS-1	0.0				(raining)
	SAS-2	0.0				
	SAS-3	0.0				
11:00	DOWNWIND		0.05	0.05	SW	0-5
11:30	RAS-1	0.0			SW	(snowing) 0-5
	RAS-2	0.0				
	RAS-3	0.0				
12:00	DOWNWIND		0.08	0.09	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
1:00	DOWNWIND		0.10	0.10	foggy. SW	0-5
2:00	DOWNWIND		0.10	0.10	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	Breathing Zone	0.0				
3:00	DOWNWIND		0.08	0.09	S	0-5
4:00	DOWNWIND		0.08	0.09	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
5:00	DOWNWIND		0.08	0.09	S	0-5
NOTE-	SNOW AND FOG IN AFTERNOON MADE READINGS					
	INCREASE FALSELY.					

File: RGEAIR.WK3

GT ENGINEERING

Air Monitoring Log

Project: RG&E West Station Monitored by: BRIAN CAREY

Weather: CLOUDY, SNOW, 40°F Date: 11-13-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.00	0.00	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.00	0.00	NW	0-5
12:00	DOWNWIND		0.00	0.00	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.00	0.00	NW	0-5
NOTE: ONLY WORK PERFORMED WAS 2 TRUCK LOADING EVENTS AT 8:00 AND AT 12:00.						

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDY 45°F

Date: 11-10-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
9:00	DOWNWIND		0.00	0.00	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
10:00	DOWNWIND		0.00	0.00	NW	0-5
11:00	DOWNWIND		0.01	0.02	NW	0-5
1	RAS-1, 2, 3	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
12:00	DOWNWIND		0.00	0.01	NW	0-5
1:00	DOWNWIND		0.00	0.00	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
2:00	DOWNWIND		0.00	0.00	NW	0-5
3:00	DOWNWIND		0.02	0.03	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR ZONE	0.0				
NOTE:	NO EXCAVATION OR PROCESSING TODAY.					
	WORK PERFORMED WAS LOADING OF TRUCKS,					
	MOVING OFF SPEC MATERIAL ACROSS SITE.					
	FINISH AT 3:00					

File: RGRAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: SNOW 30°F

Date: 11-9-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
10:00	DOWNWIND		0.00	0.02	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.00	0.01	SW	0-5
	RAS-1,2,3	0.0				
12:00	DOWNWIND		0.00	0.00	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.00	0.01	W	0-5
2:00	DOWNWIND		0.00	0.01	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.00	0.02	NW	0-5
4:00	DOWNWIND		0.00	0.01	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
NOTE: PROCESSING STOPPED AT 4:00PM. STARTED AT 10:00AM						

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CARLEY

Weather: CLOUDY, SNOW

Date: 11-8-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.03	0.09	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.01	0.03	W	0-5
10:00	DOWNWIND		0.02	0.03	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.03	.04	W	0-5
	RAS-1,2,3	0.0				
12:00	DOWNWIND		0.02	0.04	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.01	0.03	SW	0-5
2:00	DOWNWIND		0.00	0.01	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.01	0.02	SW	0-5
4:00	DOWNWIND		0.01	0.01	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
5:00	DOWNWIND		0.00	0.00	SW	0-5

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: RAIN, 50°F

Date: 11-7-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.01	0.02	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
9:00	DOWNWIND		0.01	0.03		
10:00	DOWNWIND		0.00	0.01	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.02	0.04	W	0-5
12:00	DOWNWIND		0.02	0.05	W	0-5
	PAS-1,2,3	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.01	0.02	W	0-5
2:00	DOWNWIND		0.03	0.06	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
3:00	DOWNWIND		0.05	0.07	W	0-5
4:00	DOWNWIND		0.06	0.10	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
5:00	DOWNWIND		0.08	0.12	W	0-5
LATE IN DAY, THE FOG WAS INCREASING MINI RAM READINGS.						

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 38°F

Date: 11-6-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.05	0.10	W	0-5
	BR. ZONE	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
9:00	DOWNWIND		0.05	0.11	W	0-5
10:00	DOWNWIND		0.06	0.10	W	0-5
~~11:00~~	BR. ZONE	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
11:00	DOWNWIND		0.05	0.10	W	0-5
12:00	DOWNWIND		0.03	0.07	W	0-5
	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.01	0.03	W	0-5
2:00	DOWNWIND		0.00	0.01	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR ZONE	0.0			NW	0-5
3:00	DOWNWIND		0.00	0.01	NW	0-5
4:00	DOWNWIND		0.00	0.00	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
File: RGEATR.WK3 5:00	DOWNWIND		0.00	0.00	W	0-5

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLOUDS / SUN

Date: 11-03-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
3:00	BP. ZONE	0.0			N	5-10
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	PAS-1	0.0				
	PAS-2	0.0				
	PAS-3	0.0				
4:00	DOWNWIND		0.2	0.3	N	5-10
5:00	DOWNWIND		0.3	0.3	N	5-10
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BP. ZONE	0.0				
NOTE: EXCAVATING / PROCESSING DID NOT START UNTIL 3:00 PM.						

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station

Monitored by: BRIAN CAREY

Weather: CLEAR 40°F

Date: 11-4-95

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.05	0.08	NW	0-5
	BR. ZONE	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
9:00	DOWNWIND		0.05	0.10	NW	0-5
10:00	DOWNWIND		0.08	0.09	N	6-10
	BR. ZONE	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
11:00	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
	DOWNWIND		0.05	0.06	N	6-10
12:00	DOWNWIND		0.04	0.06	SW	6-10
	BR. ZONE	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
1:00	DOWNWIND		0.07	0.08	SW	6-10
2:00	DOWNWIND		0.10	0.12	SW	6-10
	BR. ZONE	0.0				
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
3:00	DOWNWIND		0.10	0.12	SW	0-5

File: RGEAIR.WK3

Air Monitoring Log

Project: RG&E West Station — Monitored by: BRIAN TRAPP

Weather: RAIN, CLOUDY — Date: 11/2/95

note: not processing today

Time	Location	VOCs (ppmV by PID)	Particulates (mg/m³) Avg (1 Hr)	Particulates (mg/m³) Peak	Wind Direction	Wind Speed
8:00	DOWNWIND		0.0	0.0	SE	0-5
	SAS-1	0.2				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING	0.0				
9:00	DOWNWIND		0.0	0.0	SE	0-5
10:00	DOWNWIND		0.0	0.0	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BREATHING ZONE	0.0				
11:00	DOWNWIND	~~0.0~~	0.0	0.0	NW	0-5
12:00	DOWNWIND		0.0	0.0	NW	0-5
	SAS-1	0.0			NW	0-5
	SAS-2	0.0				
	SAS-3	0.0				
	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
	BR. ZONE					
1:00	DOWNWIND		0.0	0.0	NW	0-5
2:00	DOWNWIND		0.0	0.0	NW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
- NO EXCAVATION OR PROCESSING OCCURRED TODAY						

File: RGEAIR.WK3

GT ENGINEERING

ENGINEERING GRID

PROJECT RG+E WEST STATION PROJECT NUMBER _____

SUBJECT _____ BY _____ DATE 11/1/95

Weather: Cold. Rainy. Clearing by 11:00. PAGE 1 OF 1

AIR MONITORING

TIME	LOCATION	VOCs (ppm by PID)	PARTICULATES (mg/m³) Avg (1 Hr)	PEAK	WIND DIRECTION	WIND SPEED (MPH)
8:00	Downwind		0.03	0.03	SW	6
	SAS-1	0.0				
	SAS-2	0.4				
	SAS-3	0.5				
	~~B~~ BREATHING, ~~Zone~~	0.5				
9:00	DOWNWIND		0.07	0.08	SW	0-5
10:00	Downwind		0.05	0.06	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	Breathing	0.0				
11:00	- shut down. No processing					
12:00	Breathing	0.0			W	0-5
	RAS-1	0.0				
	RAS-2	0.0				
	RAS-3	0.0				
1:00	Breathing	0.0			SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	Downwind		0.04	0.04	SW	0-5
2:00	DOWNWIND		0.03	0.04	W	0-5

GT ENGINEERING

TO: JOE ALBERT
FROM: BRIAN CAREY

ENGINEERING GRID

PROJECT RG+E WEST STATION — PROJECT NUMBER _____

SUBJECT _____ — BY _____ DATE 10/31/95

note: today was very foggy. — PAGE 1 OF 1

AIR MONITORING

TIME	LOCATION	VOCs ppm by PID	PARTICULATE (mg/m³) AVG (1-HOUR)	PARTICULATE (mg/m³) PEAK	WIND DIRECTION	WIND SPEED (MPH)
8:00	DOWNWIND		0.03	0.07	S	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
9:00	DOWNWIND		0.05	0.09	S	0-5
10:00	DOWNWIND		0.05	0.07	S	0-5
	SAS-1	0.0	~~0.0~~			
	SAS-2	0.1	~~0.1~~			
	SAS-3	0.0	~~0.0~~			
11:00	DOWNWIND		0.08	0.09	S	0-5
12:00	DOWNWIND		0.08	0.09	SW	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.1				
11:15	RAS-1	0.0			SW	0-5
	RAS-2	0.0				
	RAS-3	0.6				
1:00	DOWNWIND		0.09	0.09	S	0-5
2:00	DOWNWIND		0.09	0.11	W	0-5
	SAS-1	0.6				
	SAS-2	0.9				
	SAS-3	1.1	note: very misty & foggy			
3:00	DOWNWIND		0.11	0.11	W	0-5
4:20	DOWNWIND		0.09	0.09	SW	0-5
	SAS-1	1.3				
	SAS-2	1.0				
	SAS-3	1.1				
5:00	DOWNWIND		0.11	0.13	S	0-5

GT ENGINEERING TO: JOE ALBERT
FROM: BRIAN CAREY

ENGINEERING GRID

PROJECT RAYE WEST STATION PROJECT NUMBER

SUBJECT BY DATE 10/30/95

PAGE 1 OF 1

AIR MONITORING

TIME	LOCATION	VOC (PPM - PID)	PARTICULATE (mg/m³) AVE (1 HOUR)	PARTICULATE (mg/m³) PEAK	WIND DIRECTION	WIND SPEED (MPH)
8:00	DOWNWIND		0.00	0.08	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.4				
9:00	DOWNWIND		0.00	0.02	W	0-5
10:00	DOWNWIND		0.01	0.03	W	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
11:00	DOWNWIND		0.00	0.01	W	0-5
12:00	DOWNWIND		0.00	0.00	NE	0-5
	SAS-1	0.0				
	SAS-2	0.0				
	SAS-3	0.0				
	BR. ZONE	0.0				
1:00	DOWNWIND		0.00	0.00	NE	0-5
2:00	SAS-1	0.0			N	0-5
	SAS-2	0.0				
	SAS-3	0.0				
	BR ZONE	0.0				
	DOWNWIND		0.00	0.00	E	0-5
2:45	RAS-1	0.0			SE	0-5
	RAS-2	0.0				
	RAS-3	0.0				
3:00	DOWNWIND		0.00	0.00	SE	0-5
4:00	DOWNWIND		0.00	0.00	SE	0-5
	SAS-1,2,3	0.0			SE	0-5
	BR. ZONE	0.0			SE	0-5

TO: JOE ALBERT
FROM: BRIAN CAREY

GT ENGINEERING **ENGINEERING GRID**

PROJECT _____ PROJECT NUMBER _____

SUBJECT _____ BY _____ DATE 10-27-95

_____ PAGE 1 OF 1

AIR MONITORING

TIME	LOCATION	VOC (PPM-PID)	PARTICULATE (mg/m³) AVE (1 HOUR)	PARTICULATE (mg/m³) PEAK	WIND DIRECTION	WIND SPEED (MPH)
8:00	SAS-1	0.0			W	0-5
	SAS-2	0.2			"	"
	SAS-3	0.0			"	"
	BR. ZONE	0.5			"	"
8:30	DOWNWIND		0.03	0.05	SW	0-5
9:30	DOWNWIND		0.04	0.05	SW	0-5
10:00	SAS-1	0.3			W	0-5
	SAS-2	0.6			"	"
	SAS-3	0.5			"	"
	BR. ZONE	0.6			"	"
10:30	DOWNWIND		0.04	0.07	"	"
11:30	DOWNWIND		0.02	0.05	"	"
	RAS-1	0.0			W	0-5
	RAS-2	0.0			"	"
	RAS-3	0.0			"	"
1:00	SAS-1	0.0			NW	5-10
	SAS-2	0.2			"	5-10
	SAS-3	0.6			"	5-10
	BR. ZONE	0.6			"	5-10
1:30	DOWNWIND		.03	.06	"	"
2:30	DOWNWIND		.04	.07	"	"
3:30	SAS-1	0.0			"	"
	SAS-2	0.2			"	"
	SAS-3	0.4			"	"
	BR. ZONE	0.6			"	"
	DOWNWIND		.03	.04	"	"

TO: JOE ALBERT

GT ENGINEERING FROM: BRIAN CAREY

ENGINEERING GRID

PROJECT _____ PROJECT NUMBER _____

SUBJECT _____ BY _____ DATE 10-26-95

_____ PAGE 1 OF 1

AIR MONITORING

TIME	LOCATION	VOC (PPM-PID)	PARTICULATE (mg/m³) AVE (over 1 hr)	PARTICULATE (mg/m³) PEAK	WEATHER	WIND DIRECTION/ SPEED
10:30	DOWNWIND	0.6			CLEAR	N/0-5
	BR. ZONE	0.0			"	"
11:30	DOWNWIND		0.01	0.07	"	"
	SAS-1	0.0			"	"
	SAS-2	0.0			"	"
	SAS-3	0.0			"	"
12:00	RAS-1	0.0			"	NW/0-5
	RAS-2	0.0			"	"
	RAS-3	0.0	~~0.06~~	~~0.07~~	"	"
1:00	DOWNWIND		0.06	0.07	"	N/0-5
	BR. ZONE	0.0			"	"
	SAS-1	0.0			"	"
	SAS-2	0.0			"	"
	SAS-3	0.0			"	"
2:00			0.06	0.12	"	"

NOTE: PROCESSING STOPPED AT 2:30 PM.

TO: JOE ALBERT

GT ENGINEERING FROM: BRIAN CAREY **ENGINEERING GRID**

PROJECT _____ PROJECT NUMBER _____

SUBJECT _____ BY _____ DATE 10-25-95

_____ PAGE 1 OF 1

AIR MONITORING FORM

TIME	LOCATION	VOC (PPM - PID)	PARTICULATE (mg/m³) AVE (OVER 1 HR)	PARTICULATE (mg/m³) PEAK	WEATHER	WIND DIRECTION/ SPEED
8:00	SAS-1	0	—	0.0	CLOUDY	W/0-5
	SAS-2	0	—	0.0	"	"
	SAS-3	0	—	0.0	"	"
9:00	FENCELINE	0	0.02	0.04	"	"
10:00	FENCELINE	0.6	0.02	0.04	"	"
11:00	FENCELINE	—	0.02	0.03	"	"
11:30	RAS-1	0			"	SW/0-5
	RAS-2	0			"	"
	RAS-3	0			"	"
1:00	FENCELINE	0	0.00	0.00	"	N/0-5
2:00	FENCELINE	—	0.00	0.00	"	NW/0-5
3:00	FENCELINE	0	0.00	0.00	"	"
4:00	FENCELINE	—	0.00	0.00	"	"

FENCELINE - AT EDGE OF EXCAVATION (IN BREATHING ZONE)

Section 1.2

Site Safety Plan dated September 7, 1995

GROUNDWATER TECHNOLOGY ®

Groundwater Technology, Inc.
1245 Kings Road, Schenectady, NY 12303 USA
Tel: (518) 370-5631 Fax: (518) 370-5864

SITE SAFETY PLAN

Prepared for:
Rochester Gas & Electric
Beebee Station
Rochester, New York 14649

September 7, 1995

Barry Bedaw, ASP, CHMM
Health and Safety Representative

#17:gsbc/epn/rg&eSSP 494

SITE EMERGENCY FORM

Contaminants of Concern: BTEX and Coal Tar Derivatives
Minimum Level of Protection: Modified Level D

Do not endanger your life. Survey the situation before taking any action.

GTI Office Telephone:	518-370-5631
Site Location Address:	Falls Street Rochester, New York 14649
Telephone Located at:	Central Wastewater Treatment Facility Laboratory

EMERGENCY PHONE NUMBERS

IN THE EVENT OF ANY EMERGENCY, CONTACT PROJECT MANAGER OR HEALTH AND SAFETY REPRESENTATIVE

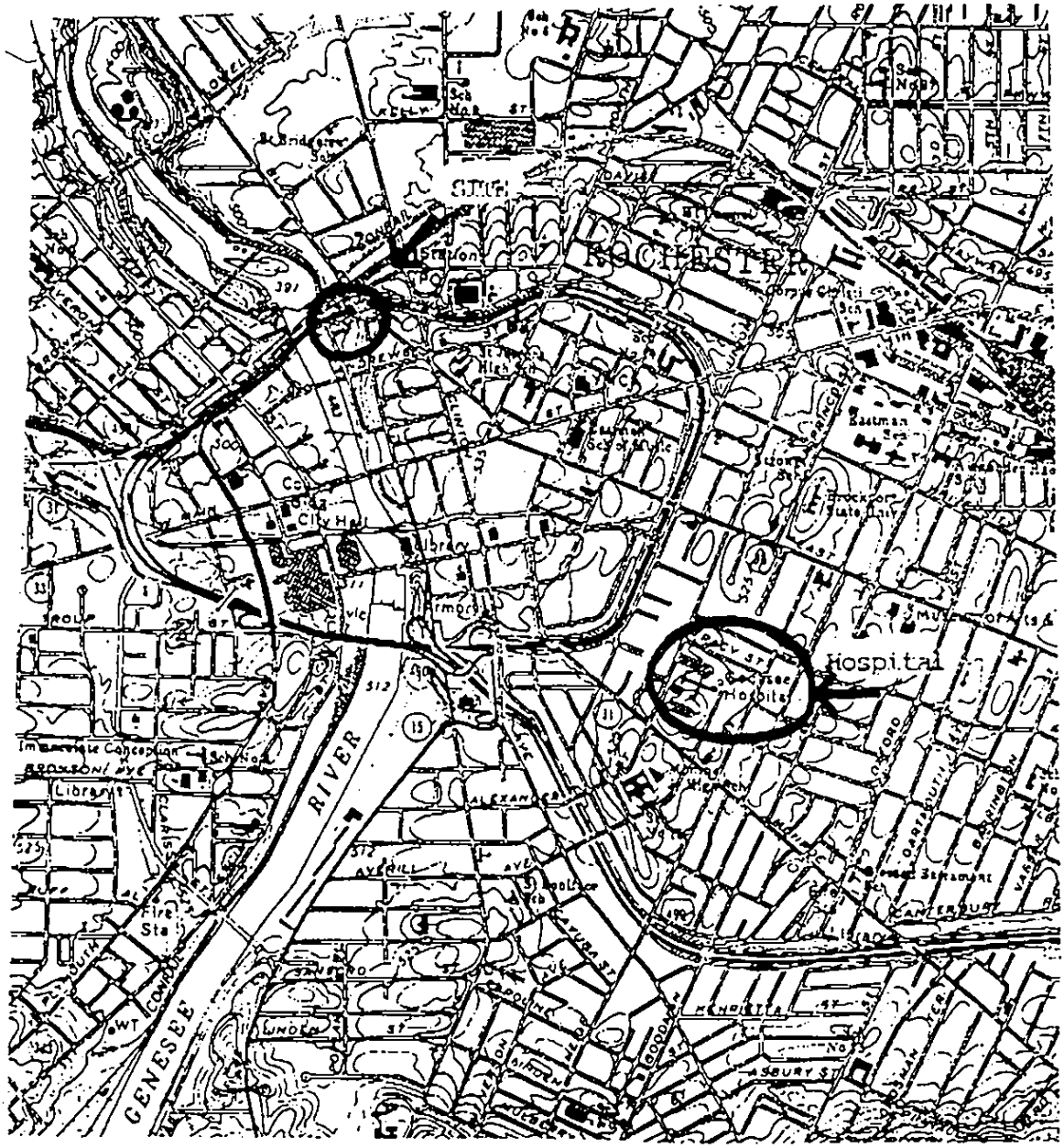
Ambulance:	911	Project Manager:	518-370-5631
Fire:	911	Health and Safety Rep:	518-370-5631
Police:	911	Client Contact:	Kevin Hylton 716-724-8428
Poison Control:	911	State Agency:	NYSDEC 716-226-2466
Hospital Name:	Genesee Hospital	Hospital Phone: On-Site Emergency Service:	716-253-2951 Gray Phone at CTF Laboratory ask for shift supervisor

FIRST AID FOR CHEMICAL EMERGENCIES

Ingestion:	DO NOT INDUCE VOMITING. Call Poison Control; follow instructions. Administer CPR, if necessary. Seek medical attention.
Inhalation:	Remove person from contaminated environment. DO NOT ENTER A CONFINED SPACE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME UNLESS PROPERLY EQUIPPED AND A STANDBY PERSON IS PRESENT. Administer CPR if necessary. Seek medical attention.
Skin Contact:	Brush off dry material, remove wet or contaminated clothing. Flush skin thoroughly with water. Seek medical attention if irritation persists.
Eye Contact:	Flush eyes with water for 15 minutes. Seek medical attention.
Exposure Symptoms:	Headache, dizziness, nausea, drowsiness, irritation of eyes, nose, throat, breathing difficulties.
Contingency Plan:	Report incident to Client Representative, Project Manager and District Health and Safety Specialist after emergency procedures have been implemented.

GROUNDWATER TECHNOLOGY

HOSPITAL LOCATION MAP



Hospital Directions

From site, take State Street south to Inner Loop follow to Scio Street exit. Take a right off the Scio Street exit. At the third light, turn left onto East Avenue. At the third light, turn right onto Alexander Street.

Hospital Information:

Name	Genesee Hospital
Address	224 Alexander Street
City, State	Genesee, New York 14607
Phone	716-263-2951

GROUNDWATER TECHNOLOGY

EMERGENCY FIRST AID

1. Survey the situation. Do not endanger your own life. **DO NOT ENTER A CONFINED SPACE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME UNLESS PROPERLY EQUIPPED AND A STANDBY PERSON IS PRESENT.**

2. Call 911 **IMMEDIATELY**. Explain the physical injury, chemical exposure, fire, or release.

3. Decontaminate the victim without delaying life-saving procedures.

4. If the victim's condition appears to be noncritical, but seems to be more severe than minor cuts, he/she should be transported to the nearest hospital by trained Emergency Medical Services (EMS) personnel: Let the doctor assume the responsibility for determining the severity of the injury. If the condition is obviously serious, EMS must transport the victim.

5. Notify the Project Manager and the District Health and Safety Specialist. Complete the Groundwater Technology Preliminary Incident Form (PIR) within 24 hours.

EMERGENCY FIRST AID PROCEDURES	
To Stop Bleeding	**Cardiopulmonary Resuscitation (CPR)**
1. Give medical statement. 2. Assure airway, breathing, circulation 3. Use **DIRECT PRESSURE** over the wound with clean dressing or your hand (use nonpermeable gloves). Direct pressure will control most bleeding. 4. Bleeding from an artery or several injury sites may require **DIRECT PRESSURE** on a **PRESSURE POINT**. Use pressure points for 30-60 seconds to help control severe bleeding. 5. Continue primary care and seek medical aid as needed.	1. Give medical statement. 2. Arousal: Check for consciousness. 3. Open airway with chin-lift. 4. Look, listen, and feel for breathing. 5. If breathing is absent, give 2 slow, full rescue breaths. 6. Check the pulse for 5 to 10 seconds. 7. If pulse is present, continue rescue breathing: **1 breath every 5 seconds**

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B: Visitor Policy
C: Site Safety Plan Amendment Sheet
D: MSDS
E: Accident Investigation Form
F: Air Monitoring Forms
G: Excavation
H: OSHA
I: Air Monitoring Plan
J: Contingency Plans
K: Maps
L: Job Safety Analysis

1.0 EMERGENCY RESPONSE

1.1 Site Specifics

In the event of an accident or emergency situation, immediate action must be taken by the first person to recognize the event. First aid equipment is located on site inside the Groundwater Technology, Inc. vehicle. Notify: I) the Site Safety Officer and, 2) the Project Manager and District Health and Safety Specialist, (3) the Client Representative about the situation immediately after emergency procedures are implemented.

	Title	Name	Telephone
1.	Health & Safety Specialist	Barry Bedaw	518-370-5631
2.	Project Manager	Joseph Burke	518-370-5631
3.	Project Director	Michael Loucy	518-370-5631
4.	Site Supervisor	Donald Shosky	303-799-4241
5.	Site Safety Officer	Brian Carey	716-634-1291
6.	Client Contact	Kevin Hylton	716-724-8428

In the event ambient air concentrations exceed action level, Kevin Hylton will be contacted immediately. Upon approval from Mr. Hylton the results will be faxed to the Monroe County Health Department MCHD at (716)274-6115.

1.1.1 Emergency/Medical Resources

On-Site Emergency Service	Go to CTF Laboratory; pick-up gray wall-mounted telephone and ask for the shift supervisor. A shift supervisor is on duty 24 hours per day.
Ambulance	911
Local Fire	911
Local Police	911
Poison Center	911
Hospital	Genesee Hospital 224 Alexander Street Rochester, New York 716-263-2951
National Response Center	1-800-424-8802
EPA (Information Line)	1-800-424-9346
Chemtrec	1-800-424-9300

1.2 Contingency/Evacuation Plan

It is possible that a site emergency could necessitate evacuating all personnel from the site. If such a situation develops, appropriate signals will be given for site evacuation. Personnel shall evacuate the site in a calm and controlled fashion and regroup a predetermined location. The route of evacuation will be dependent on wind direction, severity and type of incident, etc. Refer to **Appendix J**.

The site must not be re-entered until back-up help, monitoring equipment and/or personal protective equipment is on hand.

1.3 Usual Procedures for Injury

1. Telephone for ambulance/medical assistance if necessary. Whenever possible, notify the receiving hospital of the nature of physical injury or chemical overexposure. If no phone is available, transport the person to the nearest hospital. Refer to **Appendix J** for additional information.
2. Send/take this SSP with the attached MSDS's to medical facility with injured person.
3. If the injury is minor, proceed to administer first aid.
4. Notify the Site Safety Officer, Project Manager, Client Representative and the District Safety Specialist of all accidents, incidents and near miss situations.
5. Complete Preliminary Incident Form found in **Appendix E**.

1.4 Emergency Treatment

When transporting an injured person to a hospital, bring this site safety plan to assist medical personnel with diagnosis and treatment. In all cases of chemical overexposure, follow standard procedures as outlined below for poison management, first aid, and, if applicable, cardiopulmonary resuscitation. Four different routes of exposure and their respective first aid/poison management procedures are outlined below: Refer to **Appendix J**.

1.4.1 Ingestion:

DO NOT INDUCE VOMITING. Transport person to nearest hospital immediately.

1.4.2 Inhalation/Confined Space:

DO NOT ENTER A CONFINED SPACE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME UNLESS PROPERLY EQUIPPED AND A STANDBY PERSON IS PRESENT.

1.4.3 Inhalation/Other:

Move the person from the contaminated environment. Initiate CPR if necessary. Call or have someone call for medical assistance. Refer to MSDS for additional specific information. If necessary, transport the victim to the nearest hospital as soon as possible.

1.4.4 Skin Contact/Non-Caustic Contaminant:

Wash off skin with a large amount of water immediately. Remove any affected clothing and rewash skin using soap, if available. Transport person to a medical facility if necessary.

1.4.5 Skin Contact/Corrosive Contaminant (Acids, Organic Solvents):

Wash off skin with a large amount of water immediately. Remove any affected clothing and rewash skin with water. Transport person to a medical facility if necessary.

1.4.6 Eyes:

Hold eyelids open and rinse the eyes immediately with large amounts of water for 15 minutes. If possible, have the person remove his/her contact lenses (if worn). Never permit the eyes to be rubbed. Transport person to a medical facility as soon as possible.

2.0 INFORMATIONAL SUMMARY

The ambient and personal air monitoring program is provided as Appendix I.

2.1 Health and Safety Summary

CONTAMINANTS OF CONCERN

COAL TAR DERIVATIVES

ACTION LEVELS

Action levels have been developed by Groundwater Technology, Inc. health and safety professionals. Action levels are those concentrations at which an upgrade in personal protective equipment (PPE) is required. Volatile Organic Compound concentrations are to be monitored in the field by the use of photoionization ionization detector (PID) with readings being taken in the breathing zone occupied by Groundwater Technology field personnel to determine whether an action level has been exceeded. Log all air monitoring results on the Air Monitoring Sheets found in Appendix F.

REAL-TIME MONITORS

Photoionization Ionization Detector (Breathing Zone)

0.0 to 5.0	: Level D to be worn; sustained 5 minutes.
6.0 to 25.0	: Level C to be worn; sustained 5 minutes.
26.0 to 250.0	: Level B to be worn; sustained 5 minutes.
Above 250	:Immediately withdraw from area and evaluate situation

Combustible Gas Response

0.0 to 10.0% LEL	:Continue with normal activity
Above 10.0% LEL	:Immediately withdraw from area

Oxygen Detector Response

0.0 to 19.5% O_2	:Level B is mandatory
19.5% to 22.0% O_2	:Continue with normal activity
Above 22.0% O_2	:Immediately withdraw from area

Particulate Air Monitor

0.0 to 0.15 mg/m3	:15 minute average; Level D to be worn
>0.15 mg/m3	:15 minute average; See Appendix I

Draeger Tube

To verify presence of benzene only.

AMBIENT AIR SAMPLING

Sorbent Tubes (Benzene)

0.0 to 0.5 mg/m3		:Level D will be worn
>0.5 mg/m3		:RG&E will coordinate with MCHD for future action

Note: Action levels for air monitor are to be applied to the background readings established prior to the initiation of site activities.

HAZARD SUMMARY

Job Task	Level PPE	Air Monitoring Instrument	Frequency
Soil Excavation	Level D	PID, Miniram & O^2-LEL	Start-up of work at each new task location
Soil Transfer	Level D	PID, Miniram & O^2-LEL	Start-up of work at each new task location
Soil Blending	Level D	PID, Miniram & O^2-LEL	Start-up of work at each new task location
Soil Screening	Level D	PID, Miniram & O^2-LEL	Start-up of work at each new task location

Note: "Start up of work at each new task location" means to monitor the air quality at each new operation on the site. The breathing zone is the area inside a 1 foot radius around the head. **PID reading exceeding the Action Level of 5 ppm; benzene shall be confirmed by monitoring the area in question with a colormetric tube.**

Note: Prior to work, the ambient volatile organic compound (benzene) levels must be established. The stated action levels are intended to be added to the ambient background levels. If, during routine air monitoring, the PID is spiking on a routine basis, contact the District Health and Safety Specialist immediately.

2.2 Other Site Specific Considerations

The following are site specific safety concerns that have been identified at the project site. At a minimum, the following items will be reviewed during the tailgate safety meeting held each day, before site activities. A copy of the tailgate safety meeting agenda is included in Appendix L.

- Observe the precautions outlined in the Job Safety Analysis sheets included in Appendix L.

- Avoid wildlife! In case of animal bite, perform first aid. Note the behavior of the animal if possible. Report to the hospital for rabies shots.

- Use the proper equipment and lifting techniques when lifting objects. The 70 pound lifting rule shall be enforced. Two man lift procedures must be followed.

- All work zones and heavy equipment swing zone will be clearly marked off to ensure that the public is kept at a safe distance from the excavation activities that could cause physical injury or that potentially could release contaminants into the air.

- All excavation activities shall be directly supervised by an OSHA qualified Competent Person that meets all of the requirements of 29 CFR 1926.650.

- When possible, approach potentially contaminated media from the upwind side to minimize exposure. Position equipment on upwind side of excavation to minimize exposure.

- When sampling, remain in eye contact with equipment operator and stay beyond equipment reach radius. Keep in mind not to stand at the edge of the excavation where you could be knocked or otherwise fall into the area.

- Site Safety Officer will develop hand signals for site personnel and discuss their use during tailgate safety meetings.

- If the potential exists for you or your clothes to come into contact with contaminated materials, appropriate PPE should be worn to minimize skin contact.

- In the event you develop an irritated condition (i.e., throat, eyes, skin, etc.) please notify Site Safety Officer and PPE will be made available at your request.

2.2.1 Standing Orders For Exclusion Zone

- No smoking, eating or drinking in the Exclusion Zone.

- No horse play.

- No matches or lighters in the Exclusion Zone.

- Use the buddy system by maintaining eye contact with the buddy at all times.

- If air monitoring or other site emergencies dictate site evacuation, sound the vehicle horn with three short blast and assemble at a pre-determined location for a head count.

- Wear appropriate level of protection as defined in the Site Safety Plan.

2.3 Job Safety Analysis

A Job Safety Analysis (JSA) has been prepared for the following site activities:

- Excavation/Trenching Operations
- Soil Transportation Activities
- Heavy Equipment Operation
- Excavating Contaminated Soils

The JSA's are enclosed in **Appendix L**. This information is a valuable tool for the Tool Box Safety meetings.

2.4 Recording Keeping

All daily air monitoring results shall be recorded on the Vapor Monitoring Forms included in **Appendix F.**

3.0 INTRODUCTION

Groundwater Technology, Inc. has been retained to perform environmental services at the location on the cover page of this document. This Site Safety Plan is prepared in accordance with OSHA 29 CFR 1910.120.

3.1 Background

The Beebee Park site is the location of West Station, a former manufactured gas plant (MGP). The MGP generated off-gases from one of several techniques known as gasification. The gases were collected, purified and conveyed to residential, commercial, and industrial customers. This process generated a primary by-product known as coal tar. These materials were disposed of in depressions, relief holders etc. and graded over. The volatile organic compound of concern typically associated with coal tars is benzene and the majority of the material is comprised of heavy end polynuclear aromatic hydrocarbons (PAHs).

RG&E has conducted extensive subsurface investigations which have delineated the extent of the contamination. Additionally, from a depth of 6 to 24 inches the coal tar soils have been previousiy excavated, screened, and placed back on Area B. Ambient and real-time air monitoring conducted during this work did not indicate any significant exposure potential.

3.2 Purpose

The purpose of the site safety plan (SSP) is to provide Groundwater Technology field personnel subcontractors and other visitors with an understanding of the potential chemical and physical hazards that exist or may arise while the tasks of this project are being performed.

This SSP describes the procedures to be followed in order to reduce employee exposure to potential health hazards which may be present at the project site. The emergency response procedures necessary to respond to such hazards are also described within this SSP.

3.3 Objective

The primary objective is to ensure the well-being of all field personnel and the community surrounding this site. In order to accomplish this, project staff and approved subcontractors shall acknowledge and adhere to the policies and procedures established herein. Accordingly, all

personnel assigned to this project shall read this site safety plan and sign the Agreement and Acknowledgement Statement (**Appendix A**) to certify that they have read, understood and agreed to abide by its provisions.

3.4 Authorization

Groundwater Technology personnel have the authority to stop work performed by our sub-contractors at this site if work is not performed in accordance with the requirements of this Site Safety Plan.

3.5 Amendments

Any changes in the scope of work of this project and/or site conditions must be amended in writing on the Site Safety Plan Amendment Sheet (**Appendix C**).

3.6 Site History & Project Description

The Beebee Park site is the location of West Station, a former manufactured gas plant. The plant was used to generate off-gases from one of several techniques known as coal gasification. The gases were collected, purified, and distributed to residential, commercial, and industrial customers. The primary, and only reported, by-product placed at West Station from this process was coal tar residuals.

4.0 HAZARD EVALUATION

4.1 Site Tasks

The field tasks covered by this Site Safety Plan include soil excavation, solid transfer, soil screening, soil sampling, soil blending and test burning.

4.2 Job Task Hazards

4.2.1 All Field Tasks

The following hazards may be encountered.

- **Volatile Organic Compounds:** The inhalation of volatile organic compounds (benzene) during all operations can pose a potential health hazard. Hazard reduction procedures include monitoring the ambient air with a PID and use if necessary, of Personal Protective Equipment. Workers should stand upwind of the source of contamination whenever possible.

- **Flammable Vapors:** Presence of flammable vapors can pose a potential fire hazard and health hazard. Hazard reduction procedures include monitoring the ambient air with an O_2/LEL meter. If the LEL reading exceeds 10%, leave the site immediately and contact the fire department.

- **Oxygen:** Atmospheres that contain a level of oxygen greater than 22% pose an extreme fire hazard (the usual ambient oxygen level is approximately 20.5%). This hazard can be compounded by the fact that vapors associated with this site are highly flammable. All personnel encountering atmospheres that contain a level of Oxygen greater than 22% must evacuate the site immediately and must notify the Fire Department. If Oxygen Level is less than 19.5%, do not enter the space.

- **Heavy Equipment and Vehicular traffic:** Maintain direct eye contact between equipment operators and other site workers at all times. If eye contact is loss for any amount of time, cease operations until eye contact is regained. All employees will be required to wear a fluorescent safety vest at all times while on site. In addition, supplemental traffic safety equipment use can be exercised when warranted by specific task (i.e., drilling or excavation). Supplemental equipment can be items such as cones, cone flags, barricades and/or caution tape.

4.2.2 Soil Sampling

Skin and eye contact with contaminated soil may occur during these tasks. Nitrile gloves and approved safety glasses must be worn. When splash potential exists, safety goggles must be worn for additional protection. Remember to stand upwind of potentially contaminated materials at least five feet from the edge of the excavation. Remain in visual contact beyond the reach of the equipment prior to approaching the area for sampling.

4.2.3 Sample Preservation

When hydrochloric acid is used, skin and eye contact can occur. This hazard can be reduced with the use of Nitrile gloves and the use of safety glasses, safety goggles should be worn additional if there is a potential splash hazard present.

4.2.4 Cleaning Equipment

Skin and eye contact with methanol, alconox, or other cleaning substances can occur while cleaning equipment. This hazard can be reduced with use of Nitrile gloves and the use of goggles or safety glasses.

4.2.5 Occupational Noise

Requirements set forth in the OSHA Hearing Conservation Regulation (OSHA 1910.95) shall be adhered to during work on-site. Hearing protection shall be provided to the employee where sound pressure levels exceeds 85 dB. Hearing protection shall be worn where sound pressure levels in areas and/or on equipment exceeds 90 dB. Typical Groundwater Technology drilling operations have been monitored with a sound level meter and indicate that hearing protection is required for all personnel while engaged in this action.

4.2.6 Heat Stress

Since climatic changes cannot be avoided, work schedules will be adjusted to provide time intervals for intake of juices, juice products and water in an area free from contamination and in quantity appropriate for fluid replacement.

Heat stress may occur even in moderate temperature areas and may present any or all of the following:

A. **Heat Rash:** result of continuous exposure to heat, humid air, and chafing clothes. Heat rash is uncomfortable and decreases the ability to tolerate heat.

B. **Heat Cramps:** result of the inadequate replacement of body electrolytes lost through perspiration. Signs include severe spasms and pain in the extremities and abdomen.

C. **Heat Exhaustion:** result of increase stress on the vital organs of the body in the effort to meet the body's cooling demands. Signs include shallow breathing; pale, cool, moist skin; profuse sweating; dizziness.

D. **Heat Stroke:** result of overworked cooling system. Heat stroke is the most serious form of heat stress. Body surfaces must be cooled and medical help must be obtained immediately to prevent severe injury and/or death. Signs include red, hot, dry skin; absence of perspiration; nausea; dizziness and confusion; strong, rapid pulse; coma; and death.

HEAT STRESS PREVENTION

A. Replace body fluids (water and electrolytes) lost through perspiration. Solutions may include a 0.1% salt and water solution or commercial mixes such as Gatorade or Squench. Employees must be encouraged to drink more than the amount required to satisfy thirst.

B. Cooling devices to aid the natural body ventilation. Cooling occurs through evaporation of perspiration and limited body contact with heat-absorbing protective clothing. Utilize fans and air conditioners to assist in evaporation. Long, cotton underwear is suggested to absorb perspiration and limit any contact with heat-absorbing protective clothing (i.e., coated Tyvek suits).

C. Provide hose-down mobile shower facilities to cool protective clothing and reduce body temperature.

D. Conduct non-emergency response activities in the early morning or evening during very hot weather.

E. Provide shelter against heat and direct sunlight to protect personnel, take breaks in shaded areas.

F. Rotate workers utilizing protective clothing during hot weather.

G. Establish a work regime that will provide adequate rest periods, with personnel working in shifts.

* HEAT STRESS MONITORING *

Heat stress may occur even in moderate temperatures and may present heat rash, heat cramps, heat exhaustion, and/or heat stroke.

Monitoring procedures should be implemented to prevent heat stress arising from any of the following: environmental conditions, use of personal protective equipment, intensity of workload. Such procedures may include the following.

For temperature above 70° F, the following regime shall be followed for workers wearing permeable coveralls:

Adjusted Temperature	Normal Work Uniform	Impermeable Tyvek Suit
90°F plus	After @ 45 min work	After @ 15 min work
87.5°-90°F	After @ 60 min work	After @ 30 min work
82.5°-87.5°F	After @ 90 min work	After @ 60 min work
77.5°-82.5°F	After @ 120 min work	After @ 90 min work
72.5°-77.5°F	After @ 150 min work	After @ 120 min work

Workers wearing semipermeable or impermeable encapsulating protective clothing should be monitored for heart rate and temperature when the temperature in the work area is above 70 degrees fahrenheit. To monitor the worker, measure:

a. Heart rate. Count the radial pulse during a 30-second period as early as possible in the rest period. If the heart rate exceeds 110 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third.

b. Oral temperature. Use a clinical thermometer or similar device to measure the oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6°F shorten the next work cycle by one-third.

Do not permit a worker to wear a semipermeable or impermeable garment if the core body temperature exceeds 100.6°F.

Workers shall not be required to continue working if they feel any of the symptoms of heat stress. Rest periods should be a minimum of 15 minutes. Length of rest period should be extended as appropriate or as recommended by the Site Safety Officer or alternate.

COLD STRESS

If work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Localized cold exposure is generally labeled frostbite.

A. Hypothermia: hypothermia is defined as a decrease in the patient core temperature below 96°F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interferences with any of these mechanisms can result in hypothermia, even in the absence of what normally is considered a "cold" ambient temperature. Symptoms of hypothermia include: shivering, apathy, listlessness, sleepiness, and unconsciousness.

B. Frostbite: frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient temperatures are less than freezing and usually less than 2°F. Symptoms of frostbite are: a sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; tissues are cold, pale, and solid.

Prevention of cold related illness can be aided by educating workers on recognizing the symptoms of frostbite and hypothermia and by identifying and limiting known risk factors. The workers should be provided with enclosed, heated environments on or adjacent to the site, dry changes of clothing, and warm drinks.

To monitor the worker for cold related illnesses, start (oral) temperature recording at the job site:

- At the field team leader's discretion when suspicion is based on changes in a worker's performance or mental status.
- At a worker's request.
- As screening measure, two times per shift, under unusually hazardous conditions (e.g., wind-chill less than 20°F, or wind-chill less than 30°F with precipitation).
- As a screening measure whenever any one worker on the site develops hypothermia.

Workers developing moderate hypothermia (a core temperature of 92°F) should not return to work for at least 48 hours.

Table 3. Progressive Clinical Symptoms of Hypothermia

Core Temperature (°F)	Symptoms
99.6	Normal rectal temperature
96.8	Metabolic rate increases
95.0	Maximum shivering
93.2	Victim conscious and responsive
91.4	Severe hypothermia
89.6 - 87.8	Consciousness clouded, blood pressure difficult to obtain, pupils dilated but react to light, shivering ceases
86.0 - 84.2	Progressive loss of consciousness, muscular rigidity increases, pulse and blood pressure difficult to get, respiratory rate decreases
78.8	Victim seldom conscious
64.4	Lowest accidental hypothermia victim to recover

In order to minimize the risk of the hazards of working in cold environments, workers will be trained and periodically reinforced in the recognition of the physiologic responses of the body to cold stress. In addition, the use of insulated work clothing, warm shelters and work/warming regimens may be used to minimize the potential hazards of cold stress. Also, special attention will be paid to equipment warm-up time and freeze protection for vessels, piping, equipment, tools, and walking/working surfaces. The current ACGIH TLVs for cold stress found in this appendix will be used as a guideline.

HEAT STRESS MONITORING FORM

Project Name:
Project Number:
Site Safety and Health Officer:

Date	Title	Ambient Temp	WBGT	Work/ Rest Regimen	Employee/ Location	Pulse Rate	Body Temp	Body Water Loss	Comments

5.0 PERSONAL PROTECTIVE EQUIPMENT

Modified Level D is the minimum acceptable level of PPE for this site.

Modified Level D includes:

- hard hat
- safety glasses
- steel toe and shank boots
- fluorescent vest
- nitrile gloves (as appropriate)
- coveralls/work uniform
- outer Nitrile butyl-rubber (NBR) gloves (as appropriate)
- outer boots (as appropriate)
- splash goggles (as appropriate)
- hearing protection (as appropriate)

Level C includes:

- buddy system required at all times
- full face respirator with NIOSH approved chemical cartridges (HEPA/Organic Vapor)
- Tyvek suit with hood
- inner latex or vinyl gloves
- outer Nitrile butyl-rubber gloves
- steel toe and shank boots
- outer boots - chemical resistant
- hard hat
- hearing protection

NOTE: Respirator cartridges will be changed once per day at a minimum. This can be accomplished at the end of the work day during respirator decontamination. If odor breakthrough is detected while wearing the respirator or if breathing becomes difficult, change cartridges immediately.

Level B includes:

- Regional Health and Safety representatives must be on site upon start up of any project requiring level B protection, this should be understood to include subcontractors conducting level B activity.
- buddy system required at all times
- supplied air respirator or SCBA
- Saranex Tyvek suit
- inner Latex gloves
- outer Nitrile butyl-rubber gloves
- steel toe and shank boots
- chemical resistant boot covers
- hard hat
- hearing protection (as appropriate)

Contact with contaminated surfaces, or surfaces suspected of being contaminated should be avoided. This includes walking through, kneeling or placing equipment in puddles, mud, discolored surfaces, or on drums and other containers. Eating, smoking, drinking and/or the application of cosmetics in the immediate work area is prohibited.

When utilizing protective garments such as tyvek suit, gloves and booties, all seams between protective items will be sealed with duct tape.

6.0 DECONTAMINATION PROCEDURES

All operations conducted at this site have the potential to contaminate monitoring equipment and personal protection equipment. To prevent the transfer of any contamination to vehicles, administrative areas and personnel, the following procedures must be followed.

Whenever possible, monitoring equipment should be decontaminated with a solution of Alconox and thoroughly rinsed with water prior to leaving the site. This must be done outside a 5-foot radius of any work area.

Personal Decontamination

LEVEL D
- segregated equipment drop
- wash/rinse outer boot, then remove (as appropriate)
- wash/rinse chemical resistant outer glove, then remove (as appropriate)
- remove hard hat, goggles/safety glasses/faceshield
- remove and throw out inner disposable gloves in designated receptacles (as appropriate)

LEVEL C
- segregated equipment drop
- wash/rinse outer boots
- wash/rinse chemical resistant outer gloves, then remove
- remove chemical resistant suit (remove by rolling down the suit)
- remove outer boots and place to dry
- remove first pair(s) of disposable gloves
- remove respirator/hard hat, dispose of cartridges and wash respirator
- remove last pair of disposable gloves

LEVEL B
- segregated equipment drop
- wash/rinse outer boots
- wash/rinse chemical resistant outer gloves, then remove
- cross hotline (into decon area) and change air tanks, then redress or
- cross hotline (into clean area)
- remove boots and gloves
- remove SCBA, if worn over chemical resistant suit
- if SCBA is worn under the suit, remove the chemical resistant suit, then the SCBA
- remove hard hat

All water used in decontamination procedures should be stored in portable storage tanks, until sufficient amounts are stockpiled to facilitate disposal treatment.

All decontamination solution shall be disposed at the work station where it was generated.

Disposable sampling and personal protective equipment will be placed in plastic bags and temporarily stored in designated drums. These drums shall be disposed of according to regulatory guidelines, if necessary.

7.0 HEALTH AND SAFETY REQUIREMENTS

7.1 Medical Monitoring Program

A baseline physical examination must be conducted on all employees before they are permitted to engage in sampling, cleanup and remedial action work. A complete medical survey should be completed on each employee upon start of employment. Yearly re-examinations should be performed to update information on employee health status. Additional re-evaluation will be considered in the event of a chemical over-exposure. These medical surveillance requirements shall comply with OSHA regulations as defined in 29 CFR 1910.120.

7.2 Training

All personnel working at this site should have received a minimum of 40 hours of initial hazardous waste activity instruction, and a minimum of three days of field experience under the direct supervision of a trained, experienced person. Personnel assigned to the site will also receive 8 hours refresher training per year. On-site managers and supervisors directly responsible for employees engaged in hazardous waste operations have received an additional 8 hours of supervisory training. These training requirements comply with the OSHA Hazardous Waste Operations and Emergency Response regulation, 29 CFR 1910.120.

7.3 Visitor Policy

All visitors and/or trainees on site must submit to the limitations described in **Appendix B**.

7.4 Work Zones Area

Work and support areas shall be established based on ambient air data and proposed work sites. They shall be established in order to contain contamination within the smallest areas possible and shall ensure that each employee has the proper personal protective equipment for the area or zone in which work is to be performed.

7.5 First Aid Equipment

Vehicles used for site work will be equipped with a first aid kit and safety equipment including:

- fluorescent vests,
- cones (and flags as needed),
- hazard tape (barricades as needed),
- mounted fire extinguisher (10 pound A/B/C type),
- working flashlight, (as needed)
- water, suitable for drinking,
- portable eye wash,
- first aid kit with appropriate bandage material,
- full body harness with lifeline for confined space entry (as appropriate)

7.6 Fire Prevention

During equipment operation, periodic vapor concentration measurements should be taken with an explosimeter or combustimeter. If at any time the vapor concentrations exceed 10% of LEL, then the Site Safety Officer or designated field worker should immediately shut down all operations.

Only approved metal safety cans will be used to transport and store flammable liquids.

All gasoline and diesel-driven engines requiring refueling must be shut down and allowed to cool before filling.

Smoking is not allowed during any operations within the work area in which petroleum products or solvents in free-floating, dissolved or vapor forms, or other flammable liquids may be present.

No open flame or spark is allowed in any area containing petroleum products, or other flammable liquids.

8.0 PROJECT PERSONNEL

Groundwater Technology, Inc. will oversee and act accordingly during all phases of the project. The following management structure will be instituted for the purpose of successfully and safely completing this project.

8.1 Medical/Technical Advisors

Barry Bedaw, ASP, CHMM
GROUNDWATER TECHNOLOGY, INC., Schenectady, NY . . . . . (518) 370-5331

David T. Crowley CSP, CET, CHMM
GROUNDWATER TECHNOLOGY, INC., Norwood MA . . . . . (617) 769-7602

Jeff Stumpf, CIH, CSP, CHMM
GROUNDWATER TECHNOLOGY, INC., Englewood, CO . . . . . (303) 799-4241

Katy Perkowski, OHN, RN
GROUNDWATER TECHNOLOGY, INC., Norwood, MA . . . . . (617) 769-7600

The specific duties of the Medical/Technical Advisors include:

- providing technical input into the design of the site safety plan,
- advising worker exposure potential along with appropriate hazard reduction methods, and
- recommending a suitable medical monitoring program for the site workers.

DEFINITIONS

(TLV-TWA)	Threshold Limit Value - Time Weighted Average. The time-weighted average concentration for a normal 8-hour work day and a 40-hour work week, to which nearly all workers may be repeatedly exposed without adverse effect.
(PEL)	Time-weighted average concentrations similar to (and in many cases derived from) the Threshold Limit Values.
(REL)	Recommended Exposure Limit as defined by NIOSH similar to the Threshold Limit Values.
(IDLH)	"Immediately dangerous to life or health" means any atmospheric condition that poses an immediate threat to life, or which is likely to result in acute or immediate severe health effects. This includes oxygen deficiency conditions.
(LEL)	Lower Explosive Limit The minimum concentration of vapor in air below which propagation of a flame will not occur in the presence of an ignition source.
(UEL)	Upper Explosive Limit The maximum concentration of vapor in air above which propagation of a flame will not occur in the presence of an ignition source.
Flash Point (F.P.)	The lowest temperature at which the vapor of a combustible liquid can be made to ignite momentarily in air.
Vapor Pressure (V.P.)	The pressure characteristic at any given temperature of a vapor in equilibrium with its liquid or solid form, often expressed in millimeters of mercury (mm Hg).
Odor Threshold	A property displayed by a particular compound, low detection indicates a physiological sensation due to molecular contact with the olfactory nervous system (Based on 50% of the population).
Ionization Potential (I.P.)	The amount of ionization characteristic a particular chemical compound displays.

APPENDIX C

Site Safety Plan Amendment Sheet

Project Name:

Project Number:

Location:

Changes in field activities or hazards:

Approved by:

_____ _____

Regional Health and Safety Manager Date

EXCAVATION

Purpose

The intent of these requirements is to help reduce the risk of injury to all person's working in or around trenching and excavation operations. These requirements are in accordance with OSHA Subpart P 29 CFR 1926.65 - .653.

Definitions

According to the OSHA construction safety and health standards, 29 CFR 1926, the following is defined:

Trench: A narrow excavation in which the depth is greater than the width, although the width is not greater than 15 feet.

Excavation: Any mechanically made cavity or depression in the earth's surface. This can include excavations for anything from cellars to highways.

General Requirements

OSHA requires that, in all excavations, employees exposed to danger from moving ground shall be protected by a shoring system, sloping of the ground, or some other equivalent means.

In addition, OSHA requires that all trenches over 5 feet deep in either hard and compact or soft and unstable soil be sloped, shored, sheeted, braces or otherwise supported and that trenches less than 5 feet in depth also be effectively protected when hazardous ground movement may be expected.

One method of ensuring the safety and health or workers in a trench or excavation is to slope the sides of the cut to the "angle of repose," the greatest angle above the horizontal plane at which a material will lie without sliding. The angle of repose varies with different kinds of soil, and must be determined on each individual project. When an excavation has water conditions, silty material or loose boulders, or when it is being dug in areas where erosion, deep frost, or slide planes are apparent, the angle of repose must be flattened.

Specific Requirements

a. Prior to excavation, all utility companies should be contacted and underground utilities located to reduce accidental damage to gas, sewer, electric, telephone lines, etc. In areas where available, the utility "DIG-SAFE" hot line, located in front of the local telephone book, should be contacted.

b. To reduce the risk of collapse, all trenches more than 5 feet deep, and those less than 5 feet deep in unstable soil, should be provided with adequate shoring or the trench should be sloped back to the angle of repose.

c. To reduce the risk of injury from materials falling into excavations, all excavated soils or other materials should be stored 2 feet or more from the edge of the excavation.

d. To reduce the risk of trips/falls, trenches more than 4 feet deep should have ladders or steps located so as to require no more than 25 feet of lateral base and extend a minimum of 36 inches above the landing and secured against movement.

e. To reduce the risk of collapse from adverse weather conditions, diversion ditches, dikes, or other suitable means should be used to prevent surface water from entering an excavation or trench.

f. To help prevent unauthorized traffic and personnel from entering trenching and excavation sites, cones with 6 foot flags, barricades and flagging tape should be used to cordon off the immediate area.

APPENDIX A

Agreement and Acknowledgement Statement

AGREEMENT AND ACKNOWLEDGEMENT SHEET

Groundwater Technology personnel have the authority to stop field activities at this site if any activity is not performed in accordance with the requirements of the Health and Safety Plan. All Groundwater Technology project personnel, subcontractor personnel, and visitors are required to sign the Agreement and Acknowledgement Sheet **prior** to conducting field activities at this site.

GROUNDWATER TECHNOLOGY, INC.
AGREEMENT AND ACKNOWLEDGEMENT STATEMENT

1. I have read and fully understand the SSP and my responsibilities.
2. I agree to abide by the provisions of the SSP.

Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date
Name	Signature
Company	Date

GROUNDWATER TECHNOLOGY

APPENDIX B

Visitor Policy

VISITOR/TRAINEE GUIDELINES

Groundwater Technology, Inc. is committed to providing a safe environment on all work sites for visitors, trainees, employees and/or passersby. In order to accomplish this, the following guidelines must be followed.

1. VISITORS

Any person not actively participating in the work at the site is regarded as a "visitor" and must follow Groundwater Technology's visitor/trainee guidelines. Visitors must be accompanied by a representative while on-site.

Sites must be marked with signs, placards, and/or barricades to designate hazardous boundaries. Visitors will not be allowed on any site that is not adequately marked.

2. TRAINEES

Trainees are employees of Groundwater Technology who have not yet completed Groundwater Technology's required safety training program. New hires and in-house company transfers will be considered trainees until safety training requirements are met.

Trainees will be informed of restrictions by their supervisor and must abide by them before visiting active sites.

Trainees will be permitted to visit Groundwater Technology sites as observers as long as the following conditions are met:

- Trainees are supervised at all times while observing on-site.
- Trainees do not perform work functions of any type while on-site.
- Trainees do not handle any equipment, tools and/or supplies while on-site.
- Trainees do not enter any hazardous or hot zone or confined space areas while on-site.

Supervisors will be responsible for informing trainees of the above conditions and for ensuring that the conditions are met. Supervisors will also ensure that trainees will not be asked to violate the conditions listed above.

A Trainee/Observer Agreement Form must be signed by both the trainee and the supervisor and placed on file in the Regional Human Resources department.

Infractions of the above agreement will be viewed as extremely serious and will be subject to discipline up to and including termination for either the trainee and/or supervisor.

TRAINEE/OBSERVER AGREEMENT FORM

Groundwater Technology is committed to providing a safe working environment for all employees. In addition, Groundwater Technology will comply with OSHA requirements for employee safety training prior to working on any hazardous site.

The following section is to be filled out by trainee.

Agreement between:

_____ _____ and Groundwater Technology.

Name (print/type) SS#

Because we have your safety in mind, you will be considered a trainee until all training criteria are met. This means you must complete all training requirements prior to performing work activities on-site. As a requirement of the training program, you will be asked to visit Groundwater Technology sites as an observer. You must be supervised on all of these site visits.

As an on-site observer trainee, your signature below indicates your agreement to these restrictions.

You may not:

1. Perform work functions of any type.
2. Handle any equipment/tools and/or supplies of any type.
3. Enter any hazardous or hot zone areas.

I agree to adhere to the above conditions in all instances while on-site as a trainee/observer.

Signature Date

- - - -

APPENDIX C

Site Safety Plan Amendment Sheet

HEALTH AND SAFETY PLAN AMENDMENT SHEET

Project Name:

Project Number:

Project Manager:

Location:

Changes in field activities or hazards:

Approved by:_____

District Health and Safety Manager Date

GROUNDWATER TECHNOLOGY

APPENDIX D

MSDS

*** IDENTIFICATION ***

PRODUCT NAME(S) : Coal Tar Bitumen
PRODUCT IDENTIFICATION DATA : CAS NUMBER: 68187-57-5
DATE OF MSDS : 5/94

*** MANUFACTURER INFORMATION ***

MANUFACTURER : ROCHESTER GAS & ELECTRIC
ADDRESS : 89 EAST AVENUE
ROCHESTER NEW YORK
U.S.A. 14649
Telephone: 716-546-2700 (General Information)

*** MATERIAL SAFETY DATA ***

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Coal Tar Bitumen
SYNONYM: Coal Tar
CHEMICAL FAMILY: Coal Tar
FORMULA: Complex mixture of hydrocarbons
CAS NUMBER: 68187-57-5
DOT PROPER SHIPPING NAME: None
DOT HAZARD CLASS: None
UN/NA NUMBER: None

NFPA 704M/HMIS RATING: 2/2 HEALTH 1/1 FLAMMABILITY 1/1 REACTIVITY
0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme

SECTION II - HEALTH/SAFETY ALERT

CHRONIC OVEREXPOSURE (as defined by OSHA recommended standards)
MAY CAUSE CANCER
WARNING
HARMFUL TO THE SKIN, OR IF INHALED OR SWALLOWED
CAUSES EYE AND SKIN IRRITATION
AVOID PROLONGED OR REPEATED CONTACT
OBSERVE GOOD HYGIENE AND SAFETY PRACTICES WHEN HANDLING THIS PRODUCT

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	%
NAPTHALENE	10 PPM	10 PPM	3.1
PHENANTHRENE			1.6
FLUORANTHENE			.98
FLUORENE			.61
ACENAPHTHYLENE			.56
ANTHRACENE			.54
BENZ(A)ANTHRACENE			.48
PYRENE			.44
CHRYSENE	.2 mg/m^3		.43
BENZO(B)FLUORANTHENE			.21
BENZO(A)PYRENE			.21
BENZO(K)FLUORANTHENE			.16

SECTION III - HEALTH HAZARD INFORMATION

EYE: Overexposure to vapor can result in irritation and/or corneal changes. Direct eye contact may cause irritation. Contact with heated material may cause thermal burns.

SKIN: Contact with skin can result in irritation which when accentuated by sunlight may result in a phototoxic skin reaction. Repeated and/or prolonged contact may cause more serious skin disorders including cancer. Contact with heated material may cause thermal burns.

INHALATION: Overexposure to vapor may result in respiratory tract irritation. Repeated and/or prolonged contact to high concentrations of vapor may result in respiratory difficulties, central nervous system (CNS) effects and possible cardiovascular collapse.

INGESTION: Ingestion of material is unlikely, but may cause gastrointestinal disturbances including irritation, nausea, vomiting, abdominal pain.

OTHER: See Section XII (Comments) for additional information on health effects.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with large amounts of water for 15 minutes. Immediately seek medical aid.

SKIN CONTACT: Wash thoroughly with waterless hand cleaner. For contact with molten product, do not remove contaminated clothing. Flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. Pack with ice. Seek medical aid.

INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.

INGESTION: Ingestion is unlikely. If it occurs, seek medical aid.

SECTION V - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT & METHOD: >204C (>400F) COC AUTOIGNITION TEMP: ND
FLAMMABLE LIMITS (% BY VOLUME/AIR): LOWER: NA UPPER: NA

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water spray. Water or foam may cause frothing.

FIRE-FIGHTING PROCEDURES: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel. Toxic vapors may be given off in a fire.

FIRE AND EXPLOSION HAZARDS: When heated (fire conditions), vapors/decomposition products may be released and may add to the intensity of the fire. Closed containers may explode when exposed to extreme heat(fire). Under fire conditions, may emit irritant/toxic gas and/or fumes.

SENSITIVITY TO MECHANICAL IMPACT: ND
SENSITIVITY TO STATIC DISCHARGE: ND

SECTION VI - SPILL, LEAK AND DISPOSAL INFORMATION

SPILL OR LEAK PROCEDURES (PRODUCT): Shovel back into original container or waste receptacle. Cover with a layer of sand and scrape up. Can be RECYCLED as a road paving material.

WASTE DISPOSAL: Dispose of as an industrial waste in accordance with local, state and federal regulations. If disposing in a state other than California, dispose of as an industrial waste in accordance with local, state, and federal regulations. This product contains coal tar constituents, which have been determined by IARC to be a carcinogen. According to California hazardous waste regulations, substances posing a hazard to human health because of carcinogenicity are hazardous wastes. Dispose of as a hazardous waste in the state of California.

SECTION VII - PERSONAL PROTECTION INFORMATION

EYE PROTECTION: Industrial safety glasses, minimum. As necessary to comply with 29 CFR 1910.133 and work area conditions: use side shields, goggles or face shield. Chemical goggles; face shield (if handling molten material).

SKIN PROTECTION: As required, industrial resistant, flexible-type gloves (nitrile, neoprene, PVC, NBR (Buna-N) or equal). Wear industrial-type work clothing and safety footwear. Depending on working conditions, i.e., contact potential, wear resistant protective garments such as aprons, jackets, pants, coveralls, boots, etc.

RESPIRATORY PROTECTION: If ventilation does not maintain inhalation exposures below TLV(PEL), use MSHA/NIOSH approved units as per current 29 CFR1910.134 and manufacturers' "Instructions" and "Warnings". Combination filter/organic vapor cartridges or canister may be used. Use half mask; if eye irritation persists, use full-face unit.

VENTILATION: Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation (molten) exposures below current exposure limits and areas below flammable vapor/explosive dust concentrations. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA Requirement/NIOSH Pub. 80-106 "Working in a Confined Space".

SECTION VIII - PERSONAL HANDLING INSTRUCTIONS

HANDLING: Avoid prolonged or repeated breathing of vapors, mists or fumes. Avoid prolonged or repeated contact with skin or eyes. Application of certain protective creams (sun screens for coal tar products) before working/several times during work may be beneficial.

STORAGE: Keep in a closed, labeled container within a cool (well shaded), dry -ventilated area. Protect from physical damage. Keep containers closed when material is not in use.

OTHER: Showering and clothing change recommended at the end of each shift. Do not use until manufacturer's precautions have been read/understood. Wash exposed areas promptly and thoroughly after skin contact and before eating, drinking, using tobacco products or rest rooms. Do not wear contaminated clothing. Discard contaminated footwear.

SECTION IX - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: None. Avoid overheating.

INCOMPATIBILITY: None

HAZARDOUS REACTIONS/DECOMPOSITION/COMBUSTION PRODUCTS: None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None

SECTION X - PHYSICAL DATA

BOILING POINT: NA
MELTING POINT: ND
VAPOR PRESSURE: ~2MM HG
VAPOR DENSITY (AIR=1): 1
SOLUBILITY (WATER): Negligible
SPECIFIC GRAVITY: 1.2 - 1.3
% VOLATILE BY VOL: NA
EVAPORATION RATE (ETHER=1): NA
VISCOSITY: NA
pH: NA
VOC: NA
COEFFICIENT OF WATER/OIL DISTRIBUTION: negligible in water
APPEARANCE/ODOR: Black solid with characteristic odor

SECTION XI - COMMENTS

This product contains coal tar pitch. The IARC monographs (Vol. 35) state that there is sufficient evidence that coal tar pitches are carcinogenic in humans and that there is sufficient evidence that occupational exposure to coal tars as it occurs during the destructive distillation of coal is causally associated with the occurrence of skin cancers in humans. It is also listed in NTP and in OSHA Subpart Z Table.

Persons with a history of liver/kidney/skin/CNS/respiratory disease or exposure to materials harmful to these systems are at a greater than normal risk of developing adverse health effects when working with this product.

Airborne particulate may be generated during removal operations including abrasive blasting, sanding or grinding. See SECTION III and VII.

No known ingredients which occur at greater than 0.1%, other than those listed above, are listed as a carcinogen in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 subpart Z Toxic and Hazardous Substances (Specifically Regulated Substances).

SKIN PROTECTION (protective material): Permeation/degradation values of chemical mixtures cannot be predicted from pure components or chemical classes. Thus, these materials are normally best estimates based on available pure component data. A significant difference in chemical breakthrough time has been reported for generically similar gloves from different manufacturers (AIHA J., 48, 941-947 1987).

Do not use until manufacturer's precautions have been read/understood.

Wash exposed areas promptly and thoroughly after skin contact from working with this product and before eating, drinking, using tobacco products or rest rooms.

Do not wear contact lens without proper eye protection when using this product.

Prepared By: Davis Frederiksen,CIH

REVISION DATE: 05/94

APPENDIX E

Accident Investigation Form

GROUNDWATER TECHNOLOGY, INC.
PRELIMINARY INCIDENT REPORT

Check Incident Type:
Class I _____
Class

Person Completing Report _____ Office _____ Date _____ Incident Date _____

Incident Time: _____ Location _____ Home Dept. # _ _ _ _ _ Visiting Dept. # _ _ _ _

Person Involved in Incident _____ Telephone _ _ _-_ _ _-_ _ _ _

Driver Name (if motor vehicle accident) _____ Telephone _ _ _-_ _ _-_ _ _ _

Type of Incident:

- ☐ Near Miss Event
- ☐ Unsafe Condition/Action
- ☐ Equipment Damage
- ☐ Theft
- ☐ Property Damage
- ☐ Permit/Code Compliance
- ☐ Personal Injury/Illness
- ☐ Chemical Exposure
- ☐ Fire/Explosion
- ☐ Spill/Release
- ☐ Customer Incident
- ☐ Newspaper/Radio/TV
- ☐ Other
- ☐ Motor Vehicle Accident

Assoc. Leasing Vehicle #: _ _ _ _ _ _ _ _ _ _

VIN #_____

If GTI vehicle, call Associates Leasing at 800-255-2607.

Circle one based on initial findings: Preventable/Non-preventable

---

Personal Injury ☐ Yes ☐ No (If no, go to next section)

- ☐ First Aid Only
- ☐ Hospitalization
- ☐ Medical Treatment
- ☐ Possible Injury, Not Confirmed

Person Injured:

- ☐ GTI Employee (If GTI employee, complete First Report of Injury)
- ☐ Subcontractor
- ☐ Customer/Public/Other

Nature of Injury, Illness or Exposure: _____

Describe nature of incident, how it occurred, who was involved, witnesses and possible causal factors: (Attach additional sheets if necessary)

☐ First Report of Injury Attached ☐ Police Report Attached

Describe immediate actions taken and persons notified: (Attach additional sheets if necessary)

Line Manager (Responsible for Follow-up) _____ Office _____

DISTRIBUTION

Provide this report to the line manager immediately. The line manager is responsible for the proper distribution of the PIR form per the Incident Reporting Guide (see reverse side). Notify Corporate of all Class II and III incidents immediately by phone at (800) 876-0647, Mailbox 11911, and fax a copy of the PIR to Norwood at (617) 769-9861 .

		GROUNDWATER TECHNOLOGY

INCIDENT REPORTING GUIDE

Incident Class	Class I: A minor incident that is dealt with at the local level	Class II: A serious incident that requires notification to Corporate within 24 hours	Class III: A highly significant incident requiring immediate notification and assistance from Business Unit and Corporate
Examples of Incidents	o First Aid injury o Minor damage <$200 o Non-reportable quantity spill o Near miss event o Unsafe condition or action Note: If there is a question as to Class I or II, follow Class II notification actions.	o Personal injury (more than first aid to employee, subcontractor or public) o Any motor vehicle accident o Damage to property greater than $200 but less than $10,000 o Near miss incident that could have been very serious o Fire/Explosion o Non-emergency notification of regulatory agency is required o Served with subpoena (DO NOT ACCEPT, have delivered to CT Corporation System, Registered Agent. Contact Legal Dept. in Norwood for assistance.)	o Hospitalization (of one or more persons) o Multiple injury of employees, sub-contractors or public o Unprotected chemical exposure o Death o Damage to property greater than $10,000 o Reportable quantity spill release o Emergency notification of regulatory agency o Regulatory agency response to incident site (inspection) o Contact or appearance of news or public media
Notification Actions	1. On-scene person notifies Line Manager* immediately by phone 2. Provide PIR form to Line Manager and H&S Representative(s)** immediately following the incident 3. Line Manager investigates and follows up within 30 days *Line management = reporting manager, project manager, operations/office manager and district hub, or area manager **H&S = includes district H&S representatives and business unit H&S manager	1. On-scene person notifies Line Manager* immediately by phone 2. Line Manager notifies the Business Unit Manager, District, Hub or Area Manager; H&S Representative(s)**, Human Resources Representative, and Corporate H&S Director with PIR form immediately following the incident 3. Manager provides a detailed final investigation report within 30 days to Business Unit Manager, H&S Representative and Corporate Director H&S Note that all lost-time injury events will be investigated by the respective Business Unit Manager with a final report to the CEO.	1. On-scene person notifies Line Manager* immediately by phone 2. Manager immediately notifies Business Unit Manager, H&S Representative(s)**, Human Resources and Corporate Director H&S (800-876-0647, Mailbox #11911) by phone. PIR form is provided by fax immediately to (617-769-9861) addressed to Corporate Director H&S 3. Incident management team conferences by phone and formulates an action plan

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GROUNDWATER TECHNOLOGY

APPENDIX F

Air Monitoring Forms

APPENDIX F

Particulate Monitoring

Date	Time Start/End	Duration	Location	Wind Direction	Measurement	
					Peak	Ave.

APPENDIX G

Excavation

EXCAVATION/TRENCHING SAFETY PROCEDURES

Evaluation: Conducted by Competent Person 29 CFR 1926.

- Two soil classifications must be completed to determine sloping/shoring requirements.
- Conduct daily inspections of all open excavations prior to entry.

Egress: Excavation areas 4 feet (1.22M) or more deep

- Ladders must be spaced no more than 25 feet (7.62M) apart so that a person in the trench is always within 25 feet (7.62M) of a ladder for egress.

Shoring: Excavation areas 5 feet (1.52M) or more deep

- Excavations must be sloped or shored if personnel will be entering the excavation.
- Soil classification may be done only by a competent person using both a visual and manual test.

WARNING: One soil classification may not be enough. Outside disturbances during excavation may change even the best classification.

Inspect the soil after any condition change.

Storage: All excavations

- Spoils and heavy equipment must be stored a minimum of 2 feet (.61M) from the edge of the excavation.
- Store spoils on the downhill side.

Maximum Allowable Slopes

Soil or Rock Type	Maximum allowable slopes (H:V) [1] for excavations less than 20 feet (6.10M) deep [3]
Stable Rock Type A [2] Type B Type C	Vertical (90°) 3/4:1 (53°) 1:1 (45°) 1½:1 (34°)

Notes:

1. Numbers shown in parentheses next to maximum allowable slopes are angles expressed in degrees from the horizontal. Angles have been rounded off.
2. A short-term maximum allowable slope of 1/2 H:1V (63°) is allowed in excavations in Type A soil that are 12 feet (3.67M) or less in depth. Short-term maximum allowable slopes for excavations greater than 12 feet (3.67M) in depth shall be 3/4 H:1V (53°)
3. Sloping or benching for excavations greater than 20 feet (6.10M) deep shall be designed by a registered professional engineer.

Soils Analysis Checklist

This checklist must be completed when soil analysis is made to determine the soil type present in the excavation. A separate analysis must be performed on each layer of soil excavation walls. A separate analysis must also be performed of the excavation (trench) stretches over a distance where soil type may change.

Site location:			
Date:	Time:	Competent person:	
Where was the sample taken from?			
Excavation: Depth:	Width:	Length:	
VISUAL TEST			
Particle type:	Fine grained (cohesive)	Course grained (sand or gravel)	
Water conditions: Wet:	Dry:	Surface water present:	Submerged:
Previously disturbed soils?	Yes:	No:	
Underground utilities?	Yes: What type?	No:	
Layered soils?	Yes: Layered soil dipping into excavation?	No:	
Excavation exposed to vibrations:	Yes: From what?	No:	
Crack like openings or spilling observed?	Yes:	No:	
Conditions that may create a hazardous atmosphere?	Yes: Identify condition and source:	No:	
Surface encumbrances?	Yes: What type?	No:	
Work to be performed near public vehicular traffic?	Yes:	No:	
Possible confined space exposure?	Yes:	No:	
MANUAL TEST			
Plasticity:	Cohesive:	Non-cohesive	
Dry strength:	Granular (crumbles easily)	Cohesive (broken with difficulty)	
Note: The following unconfined compressive strength tests should be performed on undisturbed soils.			

Soils Analysis Checklist (continued)

Thumb Test used to estimate unconfined compressive strength of cohesive soils:
Test performed: ____Yes _____No

_____ Type A - soil indented by thumb with very great effort.

_____ Type B - soil indented by thumb with some effort.

_____ Type C - soil easily penetrated several inches by thumb with little or no effort. If soil is submerged, seeping water, subjected to surface water, runoff, expose to wetting.

Penetrometer or Shearvane used to estimate unconfined compressive strength of cohesive soil.
Test performed: Yes_ No_____ Device used:_____

_____ Type A - soil with unconfined compressive strength of 1.5 tsf or greater.

_____ Type B - soil with unconfined compressive strength of >0.5 tsf to <1.5 tsf.

_____ Type C - soil with unconfined compressive strength of 0.5 tsf or less. If soil is submerged, seeping water, subjected to surface water, runoff, exposed to wetting.

Wet shaking test used to determine percentage of granular and cohesive materials. Compared results to soil textural classification chart to determine soil type.

_____ Type A - clay, silty clay, sandy clay, clay loam, and in some cases, silty clay loam and sandy clay loam.

_____ Type B - angular gravel (similar to crushed rock), silt, silt loam, sandy loam and, in some cases, silty clay loam and sandy clay loam.

_____ Type C - granular soil including gravel, sand, and loamy sand.

_____% granular _____% cohesive _____% silty

Note: Type A - no soil is type "A" of soil is fissured; subject to vibration previously disturbed; layered dipping into the excavation on a slope of 4H:1V.

Soil Classification

_____Type A _____Type B _____Type C

Selection of Protective System (Appendix F)

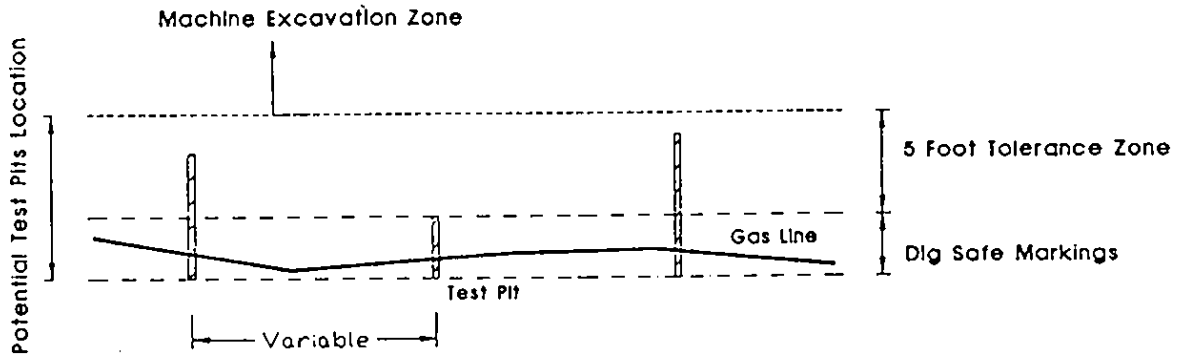
Protective system: _____Sloping (appendix B) Specify angle_____
_____Timber shoring (appendix C)
_____ Aluminum hydraulic shoring (appendix D)
_____ Trench Shield Max Depth in this soil_____

Note: Although OSHA will accept the above tests in most cases, some states will not check your state safety requirements for trenching regulations.

EXCAVATION/TRENCHING - UNDERGROUND UTILITIES

EXCAVATION/TRENCHING - UNDERGROUND UTILITIES
Documentation:
■ Contact the local utility service (Digsafe, Misutility...), and document Permit No. ■ Accompany utility representative in questionable areas, elaborate trenching projects tight/tricky areas or whenever drilling adjacent to a building or structure ■ Contact the property owner and/or town building department for plans
Physical Location:
■ Use a metal detector to aid in the identification of obstructions ■ Observe utility markers, vent pipes, catch basins, newly paved areas, etc.
Safety Procedures:
■ Machine excavate five feet from any underground utility, tank, or utility marker ■ Hand dig in utility "five-foot tolerance zone" until the service is exposed ■ Utilize test pits to establish and QC markers for sensitive utility locations
General Notes:
■ Comply with local and state codes and regulations ■ Utilize experienced and trained equipment operators ■ Use appropriate subcontractors and applicable insurance riders ■ Hand dig per customer mandate

Underground Utilities Schematic (Plan View)



APPENDIX H

OSHA

IMMEDIATE OSHA INSPECTION STEPS

1. Identify the Inspector.

   (a) Ask to see credentials.

   (b) Write down the relevant information, including the inspector's name, agency affiliation, address, telephone number and the statutory authority under which the inspection is being conducted.

   (c) If any doubts, call OSHA office to verify the visit.

   (d) If inspection occurs at a project site, ask for written certification of medical monitoring (including respiratory evaluation) and for 40 hour hazardous waste training certification. NO ONE may venture out of the clean zone without it. DOUBLE CHECK it with his/her office if in doubt.

2. Notify the Health & Safety Manager and Project Manager immediately.

   (a) The Project Manager should notify the District Manager.

   (b) The Health & Safety Manager should notify Corporate Health and Safety (ELD).

3. Take notes on:

   (a) What is said
   (b) What is seen
   (c) Who spoke to whom
   (d) Any sample or copies taken
   (e) Any corrective actions done in the inspector's presence
   (f) Any activity, including where, when, who, and what
   (g) Any other occurrence, even if seemingly minor

- When in doubt on any question, DO NOT BLUFF AN ANSWER. Ask the inspector to put the question in writing, addressed to company counsel. Never lie, even by omission; jail can be the penalty.

- If inspection occurs on site, carefully review the Site Safety Plans with the Inspector if asked to do so.

- If inspection occurs at an office, have accident reports, OSHA 200 logs ready at all times for inspection. Always make sure OSHA poster is visible.

- Determine the scope of the inspection: Ask the OSHA inspector what areas of the company activity are of interest and the reason for the inspection. Discover what has triggered the inspection. If complaints initiated the inspection, find out specifically what they were.

APPENDIX I

Air Monitoring Program

AMBIENT AND PERSONAL AIR MONITORING PROGRAM

INTRODUCTION

This ambient and personal air monitoring program is to be implemented at the Rochester Gas and Electric Corporation (RG&E), Rochester, New York Beebee Park pilot study for the treatment of MGP residues. The program has been developed to be consistent with the New York State Department of Environmental Conservation (NYSDEC) guidance document (TAGM 4031), the requirements of the Monroe County Health Department (MCHD), and the Occupational Health and Safety Administration (OSHA) standard 29 CFR 1910.120 to minimize exposure of workers.

The scope of the air monitoring program is based on the residues suspected at the site. This knowledge has been generated during subsurface investigations, previous air quality monitoring results obtained at the site during the 1992 interim remedial measure soil processing activities, and experience at similar MGP sites. The contaminants to be monitored for are benzene and fugitive particulates in the size range of 0.1 to 10 microns.

Air monitoring shall be performed utilizing a combination of stationary and portable sampling equipment and real-time monitoring instruments. The objectives of the air monitoring program are as follows:

- ® Conduct personal air sampling for workers to quantify levels of exposure to site contaminants during intrusive activities and correlate with real-time monitoring to validate that the correct level of personal protection has been designated.

- ® Conduct fenceline air monitoring to quantify air emission levels and correlate with real-time monitoring to determine compliance with ambient air standards.

- ® Correlate the data from the personal air sampling and direct reading instrument monitoring with the fenceline air monitoring results as an indicator of potential community air quality excursions.

- ® Identify when work practices must be modified or engineering controls initiated to reduce worker exposure levels and fenceline air contaminant concentrations.

SAMPLING EVENTS

The proposed strategy involves conducting one set of stationary and personal air samples during excavation and processing activities. Two sets of background air samples will be collected at the perimeter of the site. All samples will be sent to the Galson Analytical Laboratory, an American Industrial Hygiene Association (AIHA) accredited laboratory. The sampling strategy includes the following:

Perimeter Samples

Perimeter monitoring will include three stations for BTEX using NIOSH methods. The sampling locations are identified on Figure 1. Two sets of background (pre- and post-construction activities) and two sets of excavation samples will be collected: one during the excavation of coal-tar soil and the other during excavation of coal tar.

Three stationary sampling locations have been established along the perimeter of the site (See Figure 1) to collect air samples utilizing sorbent tubes for benzene analysis. The baseline particulate samples will be collected utilizing a portable aerosol monitor, a MINIRAM PDM-3 or equivalent.

Personal Samples

Personal air monitoring using NIOSH methods will be conducted for the workers conducting the excavation and processing activities. This includes the equipment operator during the excavation of the MGP residuals and the screening plant operator (if applicable). Each of these work tasks will be sampled once to document employee exposure. Samples will be collected and analyzed for BTEX and total particulates, for a total of two air sampling pumps and collection media per employee sample.

Real-Time Monitoring

Real-time air monitoring will be conducted periodically during all excavation and processing activities. This includes using one Photoionization Detector (PID) and a portable aerosol/dust monitor. Daily monitoring results will be faxed to Monroe County Health Department (MCHD) for review (716)274-6115. The schedule of real-time monitoring events is as follows:

Photoionization Ionization Detector (PID)

Frequency: Two hour intervals during the excavation of impacted soils and every one hour interval when coal tar is exposed.

Locations: Perimeter of exclusion zone and breathing zone of workers.

Note: The monitoring will be performed by the SSO walking the work area. The results will be recorded to describe the location, wind direction, time of day, and instrument results.

Real-Time Aerosol Monitor (MINIRAM)

Frequency: Continuous monitoring integrated over a 1 hour interval

Location: Downwind from exclusion zone

Note: The results will be recorded to describe the location, wind direction, time of day, length of monitoring period, and instruments results (peak and average)

SAMPLING METHODOLOGIES

All air sample collection and direct reading instrument measurements shall be conducted following proper industrial hygiene practices. NIOSH methodologies, where appropriate, shall be followed, as well as, instrument manufacturer guidelines.

Equipment, including air monitoring pumps, shall be maintained, operated and calibrated each day (prior to and post sample collection) according to the equipment vendors operations manual.

The following methodology shall be utilized for this air monitoring plan:

Benzene

Personal and stationary area samples for benzene shall be collected by drawing air through standard 100 milligram charcoal sorbent tubes utilizing personal air sampling pumps set at a flow-rate of approximately 0.01 to 0.2 liters per minute. Pumps shall be pre- and post-calibrated utilizing the primary bubbletube method.

Samples shall be analyzed by an AIHA accredited laboratory utilizing NIOSH Method 1501 - Gas Chromatography FID for low level benzene.

Particulates

Personal samples for particulates shall be collected by drawing air through standard 25mm MCEF filter utilizing personal air sampling pumps set at a flow-rate of approximately 1.5 to 2.0 liters per minute. Pumps shall be pre- and post-calibrated utilizing the primary bubbletube method.

Samples shall be analyzed by an AIHA accredited laboratory utilizing NIOSH Method 0600 - Respirable Dust Gravimetric.

Sample Handling

All samples collected by Groundwater Technology personnel will be placed in an appropriate shipping container. The samples will be transported to the laboratory under strict chain-of-custody protocols via an independent courier for next day delivery.

The samples will be prepared in accordance with the procedures established in the NIOSH methods identified above.

The samples will be analyzed, if possible, the same day of receipt.

ACTION LEVELS

The action levels have been established for this project follow sections of 29 CFR 1910.120 to determine the proper and safe level of protection during the sampling data collection process: (c) Site Characterization and Analysis, (g) Engineering Controls, Work Practices, and Personal Protective Equipment for Employee Protection, and (h) Monitoring.

Volatile Organic Compounds

>5 ppm above background (sustained for a period of 5 minutes): See Emissions Response Plans below. At spike automatically pull sorbent tube measurement for benzene.

Particulate (measured downwind)

>0.15 mg/m3 (15 minute average) above background: See Emissions Response Plans below

EMISSION RESPONSE PLANS

The proposed project may liberate particulates and volatile organic compounds (specifically benzene). The following paragraphs describe the responses to be implemented in the event one of the action levels identified above are exceeded.

Volatile Organic Compounds (VOCs)

If the ambient or breathing zone air concentrations of organic volatile compounds (VOCs) exceeds 5 ppm for a five (5) minute period above background, the work area, excavation, screening and blending activities will be halted and monitoring continued. If the VOC levels decreases below 5 ppm above background, all work activities can resume with more frequent monitoring intervals implemented, as directed by the Site Safety Officer (SSO).

In the event VOC levels are sustained between 5 ppm and 25 ppm above background, all affected site activities can only be resumed provided:

- Level C PPE is worn;
- the VOC level 200 feet downwind of the Exclusion Zone or half the distance to the nearest residential or commercial structure, whichever is less, is below 5 ppm over background; and
- more frequent intervals of monitoring, as directed by the SSO, are implemented.

If the VOC levels are sustained at greater than 25 ppm above background, at the perimeter of the Exclusion Zone, activities must be shutdown. When work shutdown occurs, downwind air monitoring as directed by the SSO will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Significant VOC Emission section below.

Significant VOC Emission

If VOC levels greater than 5 ppm over background are sustained at 200 feet downwind from the Exclusion Zone, or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted

If, following the cessation of the work activities, or as the result of an emergency, VOC levels persist above 5 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the Exclusion Zone, then the air quality must be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 foot zone).

If either of the following criteria are exceeded in the 20 Foot Zone, then the Significant VOC Emission Response Plan shall be implemented:

- VOC levels approaching 5 ppm above background for a period of more than 30 minutes.
- VOC levels greater than 10 ppm above background for any time period.

Significant VOC Emission Response Plan

Upon activation, the following activities will be enacted:

1. The Client Representative and local police authorities will immediately be contacted by the Safety Officer by dialing 911 and advised of the situation.
2. Frequent air monitoring will be conducted at 30 minute intervals within the 20 Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the SSO.
3. Soil, wood chips, plastic or other VOC control media will be dispensed over the exposed coal tar area or other appropriate area, as directed by the SSO.
4. All Emergency contacts will go into effect as appropriate.

Fugitive Particulates

If the real-time particulate monitoring exceeds background levels by 150 ug/m^3 (integrated over a 1 hour period), the upwind level will be monitored immediately using the same potable monitor. If the result exceeds the background level by 100 ug/m^3, attempts to identify the source will be implemented.

The Site Safety Officer (SSO) will walk the entire work area at Beebee Park with the potable monitor, collecting and recording 15 minute intervals, to evaluate if ancillary site activities, off-site activities or other potential source is evident. In the event the SSO determines site either off-site activities or other source is evident, the excursion will be noted and the action level increased by the difference between the original and new background levels. In the event the source is identified to be associated with a site activity, one of the following or any combination thereof dust suppression techniques may be implemented.

Fugitive Dust Suppression Plan

The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

1. Applying water on haul roads.
2. Wetting equipment and excavation faces.

3. Spraying water on budgets during excavation and dumping.

4. Hauling materials in properly tarped or watertight containers.

5. Restricting vehicle speeds to 10 mph.

6. Covering excavated areas and material after excavation activity ceases.

7. Reducing the excavation size and/or number of excavations.

Experience has shown that utilizing the above mentioned dust suppression techniques, within reason as not to create excess water which would result in unacceptable wet conditions, the chance of exceeding the 150 ug/m^3 action level is remote. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

APPENDIX J

Contingency Plans

CONTINGENCY PLANS

I. CONTINGENCY PLAN FOR EVACUATION

Although very unlikely, it is possible that a site emergency could necessitate evacuating all personnel from the site. If such a situation develops, the Site Safety Officer, or designated representative will notify the Project Supervisor, or vice versa, of the event and appropriate signal will be given for site evacuation. The above officers shall ensure that the evacuation is carried out in a calm, controlled fashion.

All personnel shall exit the site and shall congregate in an area designated by the Project Supervisor and/or Site Safety Officer. The route of evacuation will be dependent on wind direction, severity and type of incident, etc.

The Project supervisor and/or Site Safety Officer shall ensure that all personnel are accounted for. If someone is missing the Site Safety Officer will alert emergency personnel. This may be done by contacting the local Police Department. Advise them of the situation and request and expedient response by Emergency Services personnel.

Contact the Client Representative, Project Manager, District Health & Safety Specialist and/or District Manager as soon as possible after attending to the evacuation.

II. CONTINGENCY PLAN FOR MEDICAL EMERGENCY

The following procedures should be instituted immediately in the event of a medical emergency involving illness or injury to one of Groundwater Technology's employees while on-site.

The site should be shut-down and immediately secured. The area in which the injury or illness occurred should be considered off-limited until the cause of the illness or injury is known.

In the event of a non-trauma related illness or injury, instantaneous real-time air monitoring with flame or photoionization detectors should be acquired to ascertain if the illness or injury was caused by potential exposure to hazardous materials. Monitoring should be done both upwind and downwind of the incident site.

Assess the victim's condition for the nature of injury or illness. Pay close attention to the level of consciousness and any cardiac or respiratory involvement.

If the victim appears to be critically injured (i.e. unconsciousness, cardiac or respiratory abnormalities, stroke, seizures, etc.), support the victim's vital functions. Administer CPR if needed. Notify Client Representative, Police, Fire Department and EMS Units immediately.

The victim should be decontaminated as soon as possible after removal from the contaminated environment. This should be done in non-contaminated area well away from the source of the problem.

If the victim appears to be critically injured, they should be transported to the nearest Emergency Room by an EMS Unit staffed with qualified personnel.

If the victim's condition appear to be non-critical, and is anything more severe than minor cuts or bruises, they should be transported to the nearest hospital. Under no circumstances should the victim be transported to the hospital in anything other than an EMS Unit staffed by qualified personnel.

If the victim has sustained extremely minor injuries or a minor illness, it will be up to the discretion of the Site Safety Officer whether or not the victim should be treated on-site, and, may continue to work. If the Site Safety Officer determines that the victim may not continue to work, the victim should be decontaminated, relieved of duty for the day and returned to the office, if during normal working hours. An occupational physician from the current medical surveillance contractor, or the victim's family physician should be contacted.

Contact the Client Representative, Project Manager, District Health & Safety Specialist or District Manager as soon as possible after attending the needs of the victim. The incident should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

III. CONTINGENCY PLAN FOR CONTAMINATION EMERGENCY

The following procedures should be instituted immediately in the event of contamination to one of the Groundwater Technology's employees by Hazardous Materials.

If Emergency Rescue is needed to remove the victim from the contaminated area, notify, Police, Fire Department and EMS Units immediately. Advise them of the situation and request an expedient response by Emergency Services Personnel.

Absolutely no Emergency Rescue is to be attempted without having a trained back-up present.

If the victim is able to move under their own power, escort them to a non-contaminated area as soon as possible.

The site should be shut-down immediately secured. The area in which the contamination occurred should be considered off-limits until the arrival of trained personnel who are properly equipped with the appropriate personal protective equipment and monitoring instrumentation.

Assess the victim's condition for the nature of injury or contamination. The victim should be considered symptomatic if they exhibit any evidence of abnormal symptoms. Pay close attention to the level of consciousness and any cardiac or respiratory involvement. Use special care to insure that you do not become contaminated as well. If any abnormal symptoms are present, notify Client Representative, Police, Fire Department and EMS units immediately.

Attempted to identify the exact type of material involved. Use extreme caution if the danger of being contaminated exists.

The victim should be decontaminated as soon as possible after removal from the contaminated environment. This should be done in non-contaminated area well away from the source of the problem. Extreme care should be used to avoid cross-contamination. The victim should be washed by water spray or safety shower. Contaminated protective clothing should be removed after washing.

The victim should not be transported until decontamination is performed to the degree that medical personnel will not be subjected to cross-contamination.

If the victim appears to be critically injured (i.e. unconsciousness, cardiac or respiratory abnormalities, seizures, etc.), support the victim's vital functions. Administer CPR if needed.

If the victim appears to be symptomatic, they should be transported to the nearest Emergency Room by an EMS unit staffed with qualified personnel.

If the victim appears to be asymptomatic, the victim should be decontaminated, relieved of duty for the day and returned to the office, if during normal working hours. An occupational physician from the current medical surveillance contractor should be contacted.

Contact the Client Representative, Project Manager, District Health & Safety Specialist and/or District Manager as soon as possible after attending to the needs of the victim. The incidents should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

IV. CONTINGENCY PLAN FOR FIRE EMERGENCY

The following procedures should be instituted immediately in the event of a fire on-site.

The site should be shut-down and immediately secured. The area in which the fire occurred should be considered off-limits until the cause can be determined. All non-essential site personnel should be evacuated from the site to a safe, secure area. Notify the Fire Department immediately.

This may be done by contacting the local Fire Department. Advise them of the situation and the identify of any

Small fires on-site may be actively attached for control and extinguishment. Extreme care should be taken while in this operation.

The designated Site Fire Safety Officer, or his representative, will be responsible for all fire fighting activities on the site.

All approaches to the fire should be done from the upwind side if possible. Distance from the employee to the fire should be close enough to ensure proper attach of the extinguishing material, but far enough away to ensure that the employee is safe. The proper extinguisher should be utilized for the Class(s) of fire present on the site.

If possible, the fuel source should be cut off or separated from the fire. Care must be taken when performing operations involving the shut-off values and manifolds, if present.

Examples of proper extinguishing agents are as follows:

Class A -	Water
	Water with 1% AFFF Foam (Wet Water)
	Water with 6% AFFF or Fluoroprotein Foam
	ABC Dry Chemical
Class B -	ABC Dry Chemical
	Purple K
	Carbon Dioxide
	Water with 6% AFFF Foam
Class C -	ABC Dry Chemical
	Carbon Dioxide
Class D -	Metal-X Dry Powder

No attempt should be made against large fires. These should be handled by the Fire Department.

Contact the Client Representative, Project Manager, District Health & Safety Specialist and/or District Manager as soon as possible. The incident should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

V. CONTINGENCY PLAN FOR SPILL OR AIR RELEASE

The following procedures should be instituted IMMEDIATELY in the event of a spill or air release of a hazardous material on-site.

The site should be shut-down and immediately secured. The area in which the spill or release occurred should be considered off-limits until the cause can be determined and site safety can be evaluated. All non-essential site personnel should be evacuated from the site to a safe, secure area.

The spilled or released product should be immediately identified and appropriate measures, such as dikes or birms, should be instituted to halt and contain the flow. If the spill extends into waterways, the National Response Center should be notified immediately. Spill booms should be put in place in an attempt to prevent downstream contamination.

Real-time air monitoring with ionization and combustible gas indicators should be started. Monitoring should be done both upwind and downwind of the spill site or release point. An evaluation of upgrades in personnel protective equipment should be made based upon the results of the air monitoring.

If the material is unknown, Level B protection is mandatory. Samples of the material should be acquired to facilitate identification of the material.

If the results of the monitoring show that the levels of contaminants exceed IDLH values, the site should be immediately evacuated and the appropriate Federal, State, County and local regulatory authorities and emergency response personnel should be notified.

VI. CONTINGENCY PLAN FOR LOCATING CONTAINERIZED WASTE

The following procedures should be instituted immediately in the event that containerized waste is located during excavation activities.

In the event that a drum is uncovered during excavation activities, cease heavy equipment operations and shut down all equipment. The Site Safety Officer shall monitor the area with the PID and O_2/LEL meters to document any hazardous levels of contaminants.

The site should be shut-down and immediately secured. The area in which containerized wastes are discovered should be considered off-limits until the cause can be determined and site safety can be evaluated. All non-essential site personnel should be evacuated from the site to a safe, secure area.

Prior to any handling, drums should be visually inspected to gain as much information as possible about their contents. The Site Safety Officer should look for:

- Symbols, words, or other marks on the drum indicating that its contents are hazardous, e.g., radioactive, explosive, corrosive, toxic, flammable.
- Signs of deterioration such as corrosion, rust, and leaks.
- Drum type.
- Configuration of the drumhead.

Conditions in the immediate vicinity of the drums may provide information about drum contents and their associated hazards.

As a precautionary measure, personnel shall assume that unlabelled drums contain hazardous materials until their contents are characterized. Also, they should bear in mind that drums are frequently mislabelled - particularly drums that are reused. Thus a drum's label may not accurately describe its contents.

If the material is unknown, Level B protection is mandatory. Samples of the material should be acquired to facilitate identification of the material.

Prior to collecting samples, the following procedures shall be followed:

- Determine which drums should be sampled.
- Select the appropriate sampling device(s) and container(s).
- Develop a sampling plan which includes the number, volume, and locations of samples to be taken.
- The appropriate personal protection to be used during sampling, decontamination, and packaging of the sample.

When manually sampling from a drum, use the following techniques:

- Keep sampling personnel at a safe distance while drums are being opened. Sample only after opening operations are complete.
- Do not lean over other drums to reach the drum being sampled, unless absolutely necessary.
- Cover drum tops with plastic sheeting or other suitable non-contaminated materials to avoid excessive contact with the drum tops.
- Never stand on drums. This is extremely dangerous. Use mobile steps or another platform to achieve the height necessary to safely sample from the drums.
- Obtain samples with either glass rods or vacuum pumps. Do not use contaminated items such as discarded rags to sample. The contaminants may contaminate the sample and may not be compatible with the waste in the drum. Glass rods should be removed prior to pumping to minimize damage to pumps.

Following characterization and identification of contents the following procedures shall be used to maximize worker safety during drum handling and movement.

- Train personnel in proper lifting and moving techniques to prevent back injuries.
- Make sure the vehicle selected has sufficient rated load capacity to handle the anticipated loads, and make sure the vehicle can operate smoothly on the available road surface.
- Supply personnel with appropriate respiratory protective equipment when needed.
- Have overpacks ready before any attempt is made to move drums.
- Before moving anything, determine the most appropriate sequence in which the various drums and other containers should be moved. Fore example, small containers may have to be removed first to permit heavy equipment to enter and move the drums.
- Exercise extreme caution in handling drums that are not intact and tightly sealed.

- Ensure that operators have a clear view of the road-way when carrying drums. Where necessary, have ground workers available to guide the operator's motion.

- If a drum containing a liquid cannot be moved without rupture, immediately transfer its contents to a sound drum using a pump designed for transferring that liquid.

- Using a drum grappler, place immediately in overpack containers: Leaking drums that contain sludges or semi-solids. Open drums that contain liquid or solid waste. Deteriorated drums that can be moved without rupture.

The following procedures shall be followed prior to excavating the buried drums:

- Remove soil with great caution to minimize the potential for drum rupture.

- Have a dry chemical fire extinguisher on hand to control small fires.

The following procedures shall be followed during the shipment of materials to off-site TSDFs. The following guidelines can enhance the safety of these operations:

- Locate the final staging (bulking) area as close as possible to the site exit.

- Prepare a circulation plan that minimizes conflict between cleanup teams and waste haulers.

- Provide adequate area for on-site and hauling vehicles to turn around. Where necessary, build or improve on-site roads.

- Stage hauling vehicles in a safe area until ready for loading with drivers remaining in cab. Minimize the time that drivers spend in hazardous areas.

- Outfit the driver with appropriate protective equipment.

- If drums are shipped, tightly seal the drums prior to loading. Overpack leaking or deteriorated drums prior to shipment. (Under most circumstances, overpack drums used for hazardous wastes may not be reused [49 CFR Part 173.3(c)]). Make sure that truck bed and walls are clean and smooth to prevent damage to drums. Do not double stack drums. Secure drums to prevent shifting during transport.

- Keep bulk solids several inches below the top of the truck container. Cover loads with a layer of clean soil, foam, and/or tarp. Secure the load to prevent shifting or release during transport.

- Weight vehicles periodically to ensure that vehicle and road weight limits are not exceeded.

- Decontaminate vehicle tires prior to leaving the site to ensure that contamination is not carried onto public roads.

- Check periodically to ensure that vehicles are not releasing dust or vapor emissions off-site.

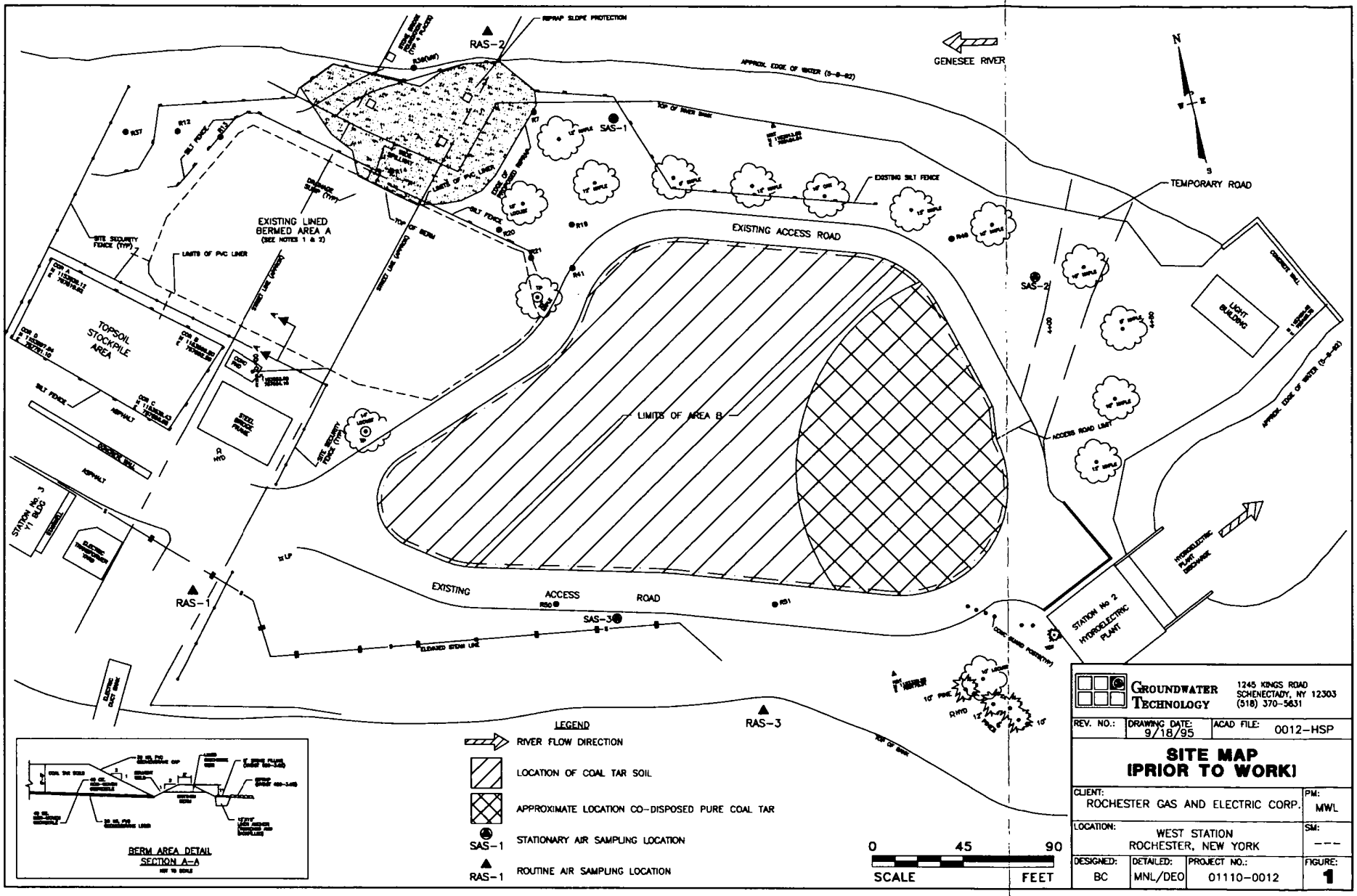
- Develop procedures for responding quickly to off-site vehicle breakdown and accidents to ensure minimal public impact.

The procedures as listed above should be instituted if there is a discovery of an acutely toxic material in must larger quantities than expected. In this case, all employees on the site should be cleared to a safe area and briefed.

Contact the Client Representative, Project Manager, District Health and Safety Specialist, and/or District Manager as soon as possible. The incident should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

APPENDIX K

Maps



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

REV. NO.:	DRAWING DATE: 9/18/95	ACAD FILE: 0012-HSP

SITE MAP (PRIOR TO WORK)

CLIENT: ROCHESTER GAS AND ELECTRIC CORP.		PM: MWL
LOCATION: WEST STATION ROCHESTER, NEW YORK		SM: ---
DESIGNED: BC	DETAILED: MNL/DEO	PROJECT NO.: 01110-0012

FIGURE: 1

APPENDIX L

Job Safety Analysis

JOB SAFETY ANALYSIS

HEAVY EQUIPMENT OPERATIONS

TASK - JOB STEPS	JOB HAZARDS	CONTROL/SAFEGUARDS
Heavy Equipment Operations (Backhoes, Drill Rigs, Dump Trucks)	1. Employee run over or hit by moving equipment	1. a. back up signals on equipment; b. traffic safety vest for all field personnel; c. foot traffic restricted in areas of operation; d. establish standard hand signals for laborers assisting in equipment operations.
	2. Physical hazards; a. hit in head b. foreign body in eye c. foot injury	2. a. hard hat; b. safety glasses c. steel toe boots
	3. overhead utilities/overhead obstacles	3. Minimum 20' distance, 10' distance if insulated

JOB SAFETY ANALYSIS

EXCAVATE/TRENCHING

TASK - JOB STEPS	JOB HAZARDS	CONTROL/SAFEGUARDS
Excavate/Trenching	1. Collapse of pit; failure of slope	1. a. assign "competent person" as a supervisor per OSHA; b. excavation activities to be performed per OSHA 29 CFR 1926. 650(scope); 1926.651 (general); 1926.652 (protective system); Appendix A (soil classification); Appendix B (sloping/benching); or Appendix C (timber).
	2. Employee buried upon slope failure	2. a. see above; b. allow proper egress from excavations >4' deep using ladder every 25' distance.
	3. Damage to adjacent structures	3. Implement shoring/bracing to preserve integrity of adjacent structures.

JOB SAFETY ANALYSIS WORKSHEET
Excavation Contaminated Soil

JOB STEPS	JOB HAZARDS	SAFEGUARDS/PRECAUTIONS
Operate backhoe or excavator to remove contaminated soils	1. Underground utilities	1. Level D personal protective equipment
	2. Cave in	2. Audible alarms (back-up, etc.) for heavy equipment
	3. Vehicle/equipment traffic	3. Test for LEL (10% LEL action level) and ppm (75 ppm on PID for action level to Level C)
	4. Falling loads	4. Slope and shore per specification in OSHA standard 1926.650-652
	5. Toxic or hazardous environments	5. Competent person supervising
		6. Secure opening of excavation when fall hazard exists (e.g., barricade openings)
		7. Stop work if strong odors reach property perimeter
		8. Prevent all skin contact

GROUNDWATER TECHNOLOGY

JOB SAFETY ANALYSIS

HEAVY EQUIPMENT OPERATIONS

TASK - JOB STEPS	JOB HAZARDS	CONTROL/SAFEGUARDS
Heavy Equipment Operations (Backhoes, Drill Rigs, Dump Trucks)	1. Employee run over or hit by moving equipment	1. a. back up signals on equipment; b. traffic safety vest for all field personnel; c. foot traffic restricted in areas of operation; d. establish standard hand signals for laborers assisting in equipment operations.
	2. Physical hazards; a. hit in head b. foreign body in eye c. foot injury	2. a. hard hat; b. safety glasses c. steel toe boots
	3. overhead utilities/overhead obstacles	3. Minimum 20' distance, 10' distance if insulated

JOB SAFETY ANALYSIS

SOIL EXCAVATION

JOB STEPS	JOB HAZARDS	SAFEGUARDS & PRECAUTIONS
Soil Excavation	1. Exposure to airborne contaminants released during intrusive activities. Flammable atmospheres encountered in excavation.	1. Monitor for airborne contaminants. Allow test pits to purge and/or use personal protective equipment.
	2. Sides of excavation can cave in. Possible burying or crushing of workers due to: (1) absence of shoring, (2) misjudgment of stability, (3) defective shoring, and/or (4) undercut sides.	2. a. Provide adequate shoring or sloping of sides of the excavation. Regularly inspect trenches for changing conditions. b. Solid rock, cemented sand or gravel = 90 degrees. c. Compact angular gravel = 63 degrees 26 ft. deep. d. Compacted sharp sand = 33 degrees 41 ft. deep. e. Rounded loose sand = 26 degrees 34 ft. deep.
	3. Falling during access/egress or while monitoring or dismounting equipment, or stumbling into the excavation.	3. Provide ramps or ladders to trenches to allow safe access and egress.
	4. An overhead hazard can result from material, tools, rock and/or soil falling into the excavation.	4. Provide an adequate barrier around open pits. Material from pit must be placed away from edge to prevent cave ins and instability of pit.
	5. Congested work area due to too many workers in a small area.	5. Maintain ample work room between workers.

JOB SAFETY ANALYSIS

SOIL TRANSPORT

JOB STEPS	JOB HAZARDS	SAFEGUARD AND PRECAUTIONS
Soil Transfer/Consolidation	1. Employee run over or hit by moving equipment.	1. a. Back up signals on equipment. b. Traffic safety vest for all field personnel. c. Restricted foot traffic in area. d. Establish hand signals for laborers assisting in equipment operations.
	2. Physical Hazards (hit in head, foreign body in eye, foot injury, etc.)	2. a. Hard Hat, safety glasses, steel toe boots, work gloves.
	3. Overhead utilities/overhead	3. Minimum 20' distance, 10' distance if insulated.
	4. Dust problem	4. a. Monitor for ambient dust per SSP. b. Wearing level D PPE. c. Spray dust with water.
	5. Noise levels exceeding the OSHA PEL.	5. Earmuffs and/or ear plugs effectively reduce noise levels.
	6. Toxic vapors	6. Monitor for contaminants using real time air monitoring per SSP stay upwind.

TAILGATE SAFETY TRAINING MEETING AGENDA

Instructor: _____

Date: _____

Location: _____

Topic: _____

Description of items covered: _____

_____

_____

_____

_____

_____

_____

Attendance Logs:

Names	Company	Social Security No.

GROUNDWATER TECHNOLOGY

CONTINGENCY PLANS

I. CONTINGENCY PLAN FOR EVACUATION

Although very unlikely, it is possible that a site emergency could necessitate evacuating all personnel from the site. If such a situation develops, the Site Safety Officer, or designated representative will notify the Project Supervisor, or vice versa, of the event and appropriate signal will be given for site evacuation. The above officers shall ensure that the evacuation is carried out in a calm, controlled fashion.

All personnel shall exit the site and shall congregate in an area designated by the Project Supervisor and/or Site Safety Officer. The route of evacuation will be dependent on wind direction, severity and type of incident, etc.

The Project supervisor and/or Site Safety Officer shall ensure that all personnel are accounted for. If someone is missing the Site Safety Officer will alert emergency personnel. This may be done by contacting the local Police Department. Advise them of the situation and request and expedient response by Emergency Services personnel.

Contact the Client Representative, Project Manager, District Health & Safety Specialist and/or District Manager as soon as possible after attending to the evacuation.

II. CONTINGENCY PLAN FOR MEDICAL EMERGENCY

The following procedures should be instituted immediately in the event of a medical emergency involving illness or injury to one of Groundwater Technology's employees while on-site.

The site should be shut-down and immediately secured. The area in which the injury or illness occurred should be considered off-limited until the cause of the illness or injury is known.

In the event of a non-trauma related illness or injury, instantaneous real-time air monitoring with flame or photoionization detectors should be acquired to ascertain if the illness or injury was caused by potential exposure to hazardous materials. Monitoring should be done both upwind and downwind of the incident site.

Assess the victim's condition for the nature of injury or illness. Pay close attention to the level of consciousness and any cardiac or respiratory involvement.

If the victim appears to be critically injured (i.e. unconsciousness, cardiac or respiratory abnormalities, stroke, seizures, etc.), support the victim's vital functions. Administer CPR if needed. Notify Client Representative, Police, Fire Department and EMS Units immediately.

The victim should be decontaminated as soon as possible after removal from the contaminated environment. This should be done in non-contaminated area well away from the source of the problem.

If the victim appears to be critically injured, they should be transported to the nearest Emergency Room by an EMS Unit staffed with qualified personnel.

If the victim's condition appear to be non-critical, and is anything more severe than minor cuts or bruises, they should be transported to the nearest hospital. Under no circumstances should the victim be transported to the hospital in anything other than an EMS Unit staffed by qualified personnel.

If the victim has sustained extremely minor injuries or a minor illness, it will be up to the discretion of the Site Safety Officer whether or not the victim should be treated on-site, and, may continue to work. If the Site Safety Officer determines that the victim may not continue to work, the victim should be decontaminated, relieved of duty for the day and returned to the office, if during normal working hours. An occupational physician from the current medical surveillance contractor, or the victim's family physician should be contacted.

Contact the Client Representative, Project Manager, District Health & Safety Specialist or District Manager as soon as possible after attending the needs of the victim. The incident should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

III. CONTINGENCY PLAN FOR CONTAMINATION EMERGENCY

The following procedures should be instituted immediately in the event of contamination to one of the Groundwater Technology's employees by Hazardous Materials.

If Emergency Rescue is needed to remove the victim from the contaminated area, notify, Police, Fire Department and EMS Units immediately. Advise them of the situation and request an expedient response by Emergency Services Personnel.

Absolutely no Emergency Rescue is to be attempted without having a trained back-up present.

If the victim is able to move under their own power, escort them to a non-contaminated area as soon as possible.

The site should be shut-down immediately secured. The area in which the contamination occurred should be considered off-limits until the arrival of trained personnel who are properly equipped with the appropriate personal protective equipment and monitoring instrumentation.

Assess the victim's condition for the nature of injury or contamination. The victim should be considered symptomatic if they exhibit any evidence of abnormal symptoms. Pay close attention to the level of consciousness and any cardiac or respiratory involvement. Use special care to insure that you do not become contaminated as well. If any abnormal symptoms are present, notify Client Representative, Police, Fire Department and EMS units immediately.

Attempted to identify the exact type of material involved. Use extreme caution if the danger of being contaminated exists.

The victim should be decontaminated as soon as possible after removal from the contaminated environment. This should be done in non-contaminated area well away from the source of the problem. Extreme care should be used to avoid cross-contamination. The victim should be washed by water spray or safety shower. Contaminated protective clothing should be removed after washing.

The victim should not be transported until decontamination is performed to the degree that medical personnel will not be subjected to cross-contamination.

If the victim appears to be critically injured (i.e. unconsciousness, cardiac or respiratory abnormalities, seizures, etc.), support the victim's vital functions. Administer CPR if needed.

If the victim appears to be symptomatic, they should be transported to the nearest Emergency Room by an EMS unit staffed with qualified personnel.

If the victim appears to be asymptomatic, the victim should be decontaminated, relieved of duty for the day and returned to the office, if during normal working hours. An occupational physician from the current medical surveillance contractor should be contacted.

Contact the Client Representative, Project Manager, District Health & Safety Specialist and/or District Manager as soon as possible after attending to the needs of the victim. The incidents should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

IV. CONTINGENCY PLAN FOR FIRE EMERGENCY

The following procedures should be instituted immediately in the event of a fire on-site.

The site should be shut-down and immediately secured. The area in which the fire occurred should be considered off-limits until the cause can be determined. All non-essential site personnel should be evacuated from the site to a safe, secure area. Notify the Fire Department immediately.

This may be done by contacting the local Fire Department. Advise them of the situation and the identify of any hazardous material involved.

The four classes of fire along with their constituents are as follows:

Class A: Wood, cloth, paper, rubber, many plastics, ordinary combustible materials.

Class B: Flammable liquids, gases and greases.

Class C: Energized electrical equipment.

Class D: Combustible metals such as magnesium, titanium, sodium, potassium.

Small fires on-site may be actively attached for control and extinguishment. Extreme care should be taken while in this operation.

The designated Site Fire Safety Officer, or his representative, will be responsible for all fire fighting activities on the site.

All approaches to the fire should be done from the upwind side if possible. Distance from the employee to the fire should be close enough to ensure proper attach of the extirguishing material, but far enough away to ensure that the employee is safe. The proper extinguisher should be utilized for the Class(s) of fire present on the site.

If possible, the fuel source should be cut off or separated from the fire. Care must be taken when performing operations involving the shut-off values and manifolds, if present.

Examples of proper extinguishing agents are as follows:

Class A - Water
Water with 1% AFFF Foam (Wet Water)
Water with 6% AFFF or Fluoroprotein Foam
ABC Dry Chemical

Class B - ABC Dry Chemical
Purple K
Carbon Dioxide
Water with 6% AFFF Foam

Class C - ABC Dry Chemical
Carbon Dioxide

Class D - Metal-X Dry Powder

No attempt should be made against large fires. These should be handled by the Fire Department.

Contact the Client Representative, Project Manager, District Health & Safety Specialist and/or District Manager as soon as possible. The incident should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

V. CONTINGENCY PLAN FOR SPILL OR AIR RELEASE

The following procedures should be instituted IMMEDIATELY in the event of a spill or air release of a hazardous material on-site.

The site should be shut-down and immediately secured. The area in which the spill or release occurred should be considered off-limits until the cause can be determined and site safety can be evaluated. All non-essential site personnel should be evacuated from the site to a safe, secure area.

The spilled or released product should be immediately identified and appropriate measures, such as dikes or birms, should be instituted to halt and contain the flow. If the spill extends into waterways, the National Response Center should be notified immediately. Spill booms should be put in place in an attempt to prevent downstream contamination.

Real-time air monitoring with ionization and combustible gas indicators should be started. Monitoring should be done both upwind and downwind of the spill site or release point. An evaluation of upgrades in personnel protective equipment should be made based upon the results of the air monitoring.

If the material is unknown, Level B protection is mandatory. Samples of the material should be acquired to facilitate identification of the material.

If the results of the monitoring show that the levels of contaminants exceed IDLH values, the site should be immediately evacuated and the appropriate Federal, State, County and local regulatory authorities and emergency response personnel should be notified.

VI. CONTINGENCY PLAN FOR LOCATING CONTAINERIZED WASTE

The following procedures should be instituted immediately in the event that containerized waste is located during excavation activities.

In the event that a drum is uncovered during excavation activities, cease heavy equipment operations and shut down all equipment. The Site Safety Officer shall monitor the area with the PID and O_2/LEL meters to document any hazardous levels of contaminants.

The site should be shut-down and immediately secured. The area in which containerized wastes are discovered should be considered off-limits until the cause can be determined and site safety can be evaluated. All non-essential site personnel should be evacuated from the site to a safe, secure area.

Prior to any handling, drums should be visually inspected to gain as much information as possible about their contents. The Site Safety Officer should look for:

- Symbols, words, or other marks on the drum indicating that its contents are hazardous, e.g., radioactive, explosive, corrosive, toxic, flammable.
- Signs of deterioration such as corrosion, rust, and leaks.
- Drum type.
- Configuration of the drumhead.

Conditions in the immediate vicinity of the drums may provide information about drum contents and their associated hazards.

As a precautionary measure, personnel shall assume that unlabelled drums contain hazardous materials until their contents are characterized. Also, they should bear in mind that drums are frequently mislabelled - particularly drums that are reused. Thus a drum's label may not accurately describe its contents.

If the material is unknown, Level B protection is mandatory. Samples of the material should be acquired to facilitate identification of the material.

Prior to collecting samples, the following procedures shall be followed:

- Determine which drums should be sampled.
- Select the appropriate sampling device(s) and container(s).
- Develop a sampling plan which includes the number, volume, and locations of samples to be taken.
- The appropriate personal protection to be used during sampling, decontamination, and packaging of the sample.

When manually sampling from a drum, use the following techniques:

- Keep sampling personnel at a safe distance while drums are being opened. Sample only after opening operations are complete.
- Do not lean over other drums to reach the drum being sampled, unless absolutely necessary.
- Cover drum tops with plastic sheeting or other suitable non-contaminated materials to avoid excessive contact with the drum tops.

- Never stand on drums. This is extremely dangerous. Use mobile steps or another platform to achieve the height necessary to safely sample from the drums.

- Obtain samples with either glass rods or vacuum pumps. Do not use contaminated items such as discarded rags to sample. The contaminants may contaminate the sample and may not be compatible with the waste in the drum. Glass rods should be removed prior to pumping to minimize damage to pumps.

Following characterization and identification of contents the following procedures shall be used to maximize worker safety during drum handling and movement.

- Train personnel in proper lifting and moving techniques to prevent back injuries.

- Make sure the vehicle selected has sufficient rated load capacity to handle the anticipated loads, and make sure the vehicle can operate smoothly on the available road surface.

- Supply personnel with appropriate respiratory protective equipment when needed.

- Have overpacks ready before any attempt is made to move drums.

- Before moving anything, determine the most appropriate sequence in which the various drums and other containers should be moved. Fore example, small containers may have to be removed first to permit heavy equipment to enter and move the drums.

- Exercise extreme caution in handling drums that are not intact and tightly sealed.

- Ensure that operators have a clear view of the road-way when carrying drums. Where necessary, have ground workers available to guide the operator's motion.

- If a drum containing a liquid cannot be moved without rupture, immediately transfer its contents to a sound drum using a pump designed for transferring that liquid.

- Using a drum grappler, place immediately in overpack containers: Leaking drums that contain sludges or semi-solids. Open drums that contain liquid or solid waste. Deteriorated drums that can be moved without rupture.

The following procedures shall be followed prior to excavating the buried drums:

- Remove soil with great caution to minimize the potential for drum rupture.

- Have a dry chemical fire extinguisher on hand to control small fires.

The following procedures shall be followed during the shipment of materials to off-site TSDFs. The following guidelines can enhance the safety of these operations:

- Locate the final staging (bulking) area as close as possible to the site exit.

- Prepare a circulation plan that minimizes conflict between cleanup teams and waste haulers.

- Provide adequate area for on-site and hauling vehicles to turn around. Where necessary, build or improve on-site roads.

- Stage hauling vehicles in a safe area until ready for loading with drivers remaining in cab. Minimize the time that drivers spend in hazardous areas.

- Outfit the driver with appropriate protective equipment.

- If drums are shipped, tightly seal the drums prior to loading. Overpack leaking or deteriorated drums prior to shipment. (Under most circumstances, overpack drums used for hazardous wastes may not be reused [49 CFR Part 173.3(c)]). Make sure that truck bed and walls are clean and smooth to prevent damage to drums. Do not double stack drums. Secure drums to prevent shifting during transport.

- Keep bulk solids several inches below the top of the truck container. Cover loads with a layer of clean soil, foam, and/or tarp. Secure the load to prevent shifting or release during transport.

- Weight vehicles periodically to ensure that vehicle and road weight limits are not exceeded.

- Decontaminate vehicle tires prior to leaving the site to ensure that contamination is not carried onto public roads.

- Check periodically to ensure that vehicles are not releasing dust or vapor emissions off-site.

- Develop procedures for responding quickly to off-site vehicle breakdown and accidents to ensure minimal public impact.

The procedures as listed above should be instituted if there is a discovery of an acutely toxic material in must larger quantities than expected. In this case, all employees on the site should be cleared to a safe area and briefed.

Contact the Client Representative, Project Manager, District Health and Safety Specialist, and/or District Manager as soon as possible. The incident should be documented both in the project file and on the Groundwater Technology Preliminary Incident Report Form.

Section 1.3

Construction Quality Management Plan dated October 25, 1995

GT ENGINEERING

GT Engineering, P. C.
1245 Kings Road, Schenectady, NY 12303 USA
Tel: (518) 370-0392 Fax: (518) 370-5864

CONSTRUCTION QUALITY MANAGEMENT PLAN

ROCHESTER GAS AND ELECTRIC CORPORATION
WEST STATION REMEDIATION PROJECT

October 25, 1995

Prepared for:

Rochester Gas and Electric Corporation
89 East Avenue
Rochester, New York 14649

Submitted by:

Groundwater Technology, Inc.
1245 Kings Road
Schenectady, New York 12303

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1.0 INTRODUCTION

1.1 Site Background and History

Rochester Gas and Electric Corporation (RG&E) owns Beebee Park, the location of West Station, a former Manufactured Gas Plant (MGP) facility in Rochester, New York. The MGP generated off-gases from one of several techniques known as gasification. The processes typically generated a by-product referred to as coal tar. These materials were commonly disposed of in depressions, relief holders, etc. and graded over. Coal tar residues have been identified and the extent of their contamination delineated at the West Station facility by RG&E. The coal tar residues can be defined as one of two categories: coal tar soils or coal tar.

"Coal tar soils" are typically a non-hazardous (by characteristic) mixture of soil and MGP residues. The mixture occurs as a result of the co-disposal of earthen materials such as spill from gas line installations with tar, coke, ash and construction debris. The coal tar soil will be excavated and processed through a portable screening plant on the site of the former MGP as described in the West Station Remediation Work Plan (Work Plan) submitted to the New York State Department of Environmental Conservation (NYS DEC).

"Coal tar", as used in this document, refers to coal tar and potentially minor percentages of gravel, soil, ash, coke, or debris that will be excavated from a known source located at the south end of Area B (see Appendix A). Coal tar will be excavated and placed directly into closed top, welded seam containers and shipped for liquification. This Coal Tar will eventually be used as a raw feedstock to the tar refining industry. The material will be handled as described in the Work Plan.

It is anticipated that a maximum of approximately 15,000 tons of coal tar soil and 3,000 tons of coal tar will be removed from the site over a four month period.

Other wastes that could potentially be produced during the remediation project include water from excavation dewatering as well as tarping materials used to cover soils. These waste streams will also be sampled and analyzed in accordance with the Work Plan.

1.2 Construction Quality Management Plan (CQMP) Objectives

This Construction Quality Management Plan (CQMP) is designed to assure the quality of the project by monitoring, inspecting, and testing the excavation, screening, and stockpiling processes associated with the remediation project.

The objective of this CQMP is to identify and standardize measures to provide confidence that activities in all phases of the RG&E West Station Remediation Project will be completed in accordance with the Work Plan, Quality Assurance Plan and Sampling Plan (applicable local, state and federal regulations) and appropriate industry standards. Specific objectives of this plan establish protocols and procedures for the following components:

1. Responsibility and Authority -- The responsibility and authority of the key personnel involved in the completion of the RG&E remediation project.

2. Inspection and testing activities -- Establish the observations and implement inspections and tests that will be used to ensure that the construction activities for the RG&E remediation project meet or exceed all design criteria, (i.e., plans, specifications, and local, state and federal regulations).

3. Sampling strategies -- Establish responsibility for sampling activities and methods including frequency and acceptance criteria for ensuring that material and performance specifications and applicable regulations will be met during the construction process.

4. Documentation and Reporting -- Establish appropriate field documents (i.e. summary reports, photographic reports, inspection data sheets, problem identification and corrective measures reports).

1.3 Summary of Construction Elements

1.3.1 Excavation of Gravel Cover from Area B

An approximately four-inch deep layer of gravel will be removed from the entire extent of Area B. The gravel will be stockpiled proximate to the excavation. This material will be used as fill in accordance with the Work Plan.

1.3.2 Excavation of Coal Tar Soils

Coal tar soils are located in Area B at an approximate depth four inches below surface elevation. Coal tar soils will be excavated from the entire extent of Area B to appropriate depth of 8-feet below existing grade as described in the work plan. The excavation may also extend beyond the boundaries of Area B if it is determined that those soils are to be removed. These soils will be excavated, processed through the screening plant and stockpiled prior to shipment. Slopes of the excavation will be maintained at 2H:1V.

1.3.3 Excavation of Coal Tar

Coal tar will be excavated with the use of a track-mounted excavator from all areas in which it is found and loaded directly into closed top, welded seam containers. The estimated area of coal tar has been delineated by RG&E and is located within Area B. Slopes of the excavated areas will be maintained at 2H:1V.

1.3.4 Processing of Coal Tar Soil

Coal Tar Soil will be taken from the point of excavation and processed through a 1-inch screening plant to remove off-spec material. Some of the off-spec materials, will be run through the plant up to two times in an effort to crush oversized materials down to the 1-inch specification. Off-spec materials will be temporarily stored in Area B for future use as a backfill material.

1.3.5 Stockpiling of Coal Tar Soils

Coal Tar Soils will be moved from the screening plant to temporary stockpiling areas within Area B as described in the Work Plan. The Work Plan also allows for contingency stockpiling of Coal Tar Soils in the former coal storage area at Beebee Station.

1.3.6 Loading Coal Tar Soils and Coal Tar

Coal Tar Soils will be loaded with a rubber wheeled front end loader equipped with a minimum three (3) cubic yard bucket into dump trucks or dump trailers for transportation to NYSEG or the alternate facility if necessary. Coal Tar will be loaded directly from the excavation into the containers to be used for transportation to 7-7 Inc. or alternate facility if necessary. As discussed in the Project Management Plan, field personnel will track the quantity of materials transported to NYSEG and 7-7 Inc.

1.3.7 Site Restoration

Excavations in Area B will be regraded by importing backfill from a certified borrow source as well as utilizing off-spec material for backfill. The final contours of the site will be as presented in the Work Plan.

2.0 RESPONSIBILITY AND AUTHORITY

Responsibilities of each member of the construction project team are described below.

2.1 Remediation Project Engineering Contractor (Groundwater Technology)

Groundwater Technology is responsible for the coordinating field operations of the remediation project. This includes coordination of subcontractors to excavate and transport materials to the appropriate facilities. This responsibility also includes complying with the requirements of the Work Plan and permitting agencies. Groundwater Technology is responsible to submit documentation required by the CQA program, assuring that the remediation project is constructed and implemented as specified in the Work Plan and also has the authority to accept or reject the materials and workmanship of any subcontractors at the site.

Groundwater Technology is also responsible to ensure a functional construction quality control (CQC) organization is active during the project and provide support for the CQC system to perform inspections, tests and retesting in the event of failure of any item of work, including that of the subcontractors, and to assure compliance with the contract provisions. The CQC system includes, but is not limited to, the inspections and tests required in the technical provisions of the Work Plan, and will cover all project operations.

2.2 Construction Quality Assurance Officer (Groundwater Technology)

The overall responsibility of the CQA officer is to perform those activities in this CQMP deemed necessary to assure the quality of construction and support quality control efforts. The CQA officer for the remediation project will be the Project Manager.

Specific responsibilities of the CQA officer include:

- Directing and supporting the Construction Quality Control (CQC) Representative inspection personnel in performing observations and tests by:
  - verifying that the data are properly recorded, validated, reduced, summarized, and interpreted

- confirming that the test data are properly recorded and maintained (this may involve selecting reported results and backtracking them to the original observation and test data sheets)

- confirming that the testing equipment, personnel, and procedures do not change over time or making sure that any changes do not adversely impact the inspection process; and

- confirming that regular calibration of testing equipment occurs and is properly recorded

- Educating CQC inspection personnel on CQC requirements and procedures.

- Scheduling and coordinating CQA inspection activities.

The Quality Assurance Program will be implemented through inspection, sampling, testing, and review of services and workmanship. The responsibility of the CQA officer is to ensure the quality of construction meets or exceeds that defined by specification and/or engineering plans and identified in the CQMP.

2.3 Construction Quality Control Representative (Groundwater Technology)

A CQC representative, supplemented as necessary by additional personnel, is to be on the work site at all times during progress, with complete authority to take any action necessary to ensure compliance with the contract. The CQC representative will be the Site Engineer. Specific responsibilities of the CQC representative include:

- Reviewing design, plans, and specifications for clarity and completeness so that the construction activities can be effectively implemented.

- Verifying that a contractor's construction quality is in accordance with the CQMP.

- Performing on-site inspection of the work in progress to assess compliance with the design plans, and specifications.

- Reporting the results of all observations and tests as the work progresses and interacting with the contractor to provide assistance in modifying the materials and work to comply with the specified design. This includes:

  - providing to the facility owner/operator reports on the inspection results;

  - review and interpretation of all data sheets and reports;

- identification of work that the CQC representative believes should be accepted, rejected, or uncovered for observation, or that may require special testing, inspection, or approval; and

- rejection of defective work and verification that corrective measures are implemented.

- Reporting to the CQA officer results of all inspections including work that is not of acceptable quality or that fails to meet the specified design.

- Verifying that the equipment used in testing meets the test requirements and that the tests are conducted according to the proper standardized procedures.

- Submitting blind samples (knowns, duplicates, and blanks) for analysis by one or more independent laboratories

- Verifying that materials are installed as specified, except where necessary field modifications encountered.

The CQC personnel report directly to the Project Manager.

3.0 FIELD QUALITY CONTROL INSPECTIONS, TESTING, AND SAMPLING REQUIREMENTS

3.1 Excavation of Gravel Cover from Area B

All excavated gravel will be visually inspected and approved by the CQC representative prior to stockpiling and subsequent use as backfill. Gravel will be free of all coal tar soils and coal tar prior to acceptance by the CQC representative.

3.2 Excavation of Coal Tar Soils

All excavated coal tar soils will be visually inspected and approved by the CQC representative prior to processing. Limits of the coal tar soil excavation will be delineated by the CQC representative prior to coal tar soils excavation. All slopes will be measured and verified to meet the maximum slope requirements of 2H:1V.

3.3 Excavation of Coal Tar

All excavated coal tar will be visually inspected and approved by the CQC representative prior to containerizing for shipment. Limits of the coal tar excavation will be delineated by the CQC representative prior to the coal tar excavation. All slopes will be measured and verified to meet slope requirements of 2H:1V.

3.4 Processing of Coal Tar Soils

All Coal Tar Soils excavated will be processed through the screening plant. Material passing through the screen will be inspected, recorded, and accepted by the CQC representative prior to stockpiling. Materials not passing through the screen will be inspected by the CQC representative or appointee and an evaluation made to either run the material through the plant again or staged for future use as backfill.

The off-spec materials may be screened a second time in an effort to meet the 1-inch specification.

3.5 Stockpiling of Coal Tar Soils

Stockpiles of will be temporarily staged within Area B and marked on a site diagram with a unique identification number. This number will be used to cross-reference analytical data and track deliveries to NYSEG or alternate facility.

3.6 Loading of Coal Tar Soils and Coal Tar

Per the Sampling and Analysis Plan and Work Plan, samples of processed Coal Tar Soil and Coal Tar (if necessary) will be analyzed to verify the materials meet the appropriate acceptance criteria for the facility. Subsequently, the CQC representative will ensure the appropriate Coal Tar Soil or Coal Tar is loaded and transferred to NYSEG or 7-7 Inc.

Bill of ladings will be reviewed, accepted, and collected as each truck or container is off loaded at the applicable facility.

3.7 Site Restoration

Site restoration will be observed by the CQC representative or appointee. At the completion of grading by the subcontractor a rough topographical survey will be completed and compared to the contours provided in the Work Plan. Once the grading is approved by the CQC representative or appointee, seeding of the re-graded areas will be completed by the subcontractor. It is the responsibility of the subcontractor to ensure vegetative cover is established similar to the existing growth.

3.8 Off-Spec Materials

All off-spec materials, except recyclable metals, from the screening plant will be used as backfill as described in the Work Plan.

4.0 DOCUMENTATION AND REPORTING REQUIREMENTS FOR CQA/CQC ACTIVITIES

The value of the CQMP will be assured by proper documentation techniques. The CQMP inspection team will be guided by data sheets, schedules and checklists. The documentation of the inspection activities will facilitate the adherence to the design documents and maintain the level of reporting required by the parties involved in the remediation project.

4.1 Inspection Reports

In general, documentation may involve daily summary and photographic reports including sketches of a particular section or activity, inspection log, corrective measure summary, schedule summary. The documentation will be summarized in weekly reports. Specific documentation procedures are listed in the following subsections. Typical reporting formats are located in **Appendix B** of this document.

Daily Report

The Site Engineer shall submit by fax a daily report to the Project Manager identifying subcontractors work force and their labor hours, location and description of work performed, lost time accidents, equipment left on job site, equipment/materials received and if applicable, submittal status, non-compliance notices received, errors and/or omission in plans and specifications, visitors to the job site and any other pertinent information.

CQA Officer Report

The CQA Officer will submit a weekly report to RG&E recording weather conditions and temperatures, inspections and/or testing performed location of work, results of inspections, testing, location and description of deficiencies, deficiencies corrected, the date of the report, and comments on the review of the corresponding daily reports. This report shall be signed by the authorized CQA Officer.

Daily Construction Log

Daily construction logs outline the specific construction activities for each individual working day. It will document and monitor the daily activities and problems that accrued during the work day. It will allow

the reader to follow the flow of progress on the site and relate the CQC inspections to that progress. The daily log must be completed by the CQC representative on a daily bases.

As-Built Sketch Log

The as-built sketch log is designed to compliment the daily construction log by providing appropriate sketches of specific construction activities. The as-built sketch log should be filled out by the CQC representative.

Progress Photo Log

Progress photo logs are designed to document construction activities by still photos. Photo logs may also be used to photographically record activities recorded in a daily construction log or an as-built sketch log. Photos will be collected by the CQC representative.

Daily Inspection Log

The daily inspection log is designed to document all inspection activities and how they correspond to the engineered plans and specifications. All observations, field and/or laboratory tests will be recorded on a daily inspection log. It is important to note recorded field observations may take the form of notes, charts, sketches, or photographs. The daily inspection log will be completed by the CQC representative.

Phone Logs

Telephone/Fax conversations and transmittals will be recorded on phone log sheets. Contact, titles, telephone numbers, topics and conversation summaries will be recorded to maintain the CQMP plan as information and situations are relayed to/from the CQC representative.

Meeting Logs

Each meeting involving an individual or individuals and any member of the CQC team will be recorded by a designated CQC representative on a Meeting Log. To maintain information continuity, minutes of each meeting as well as subject, location, and action items will be recorded and a copy given to each participant. Meeting logs are designed to limit misunderstandings that may develop in controlled conversations.

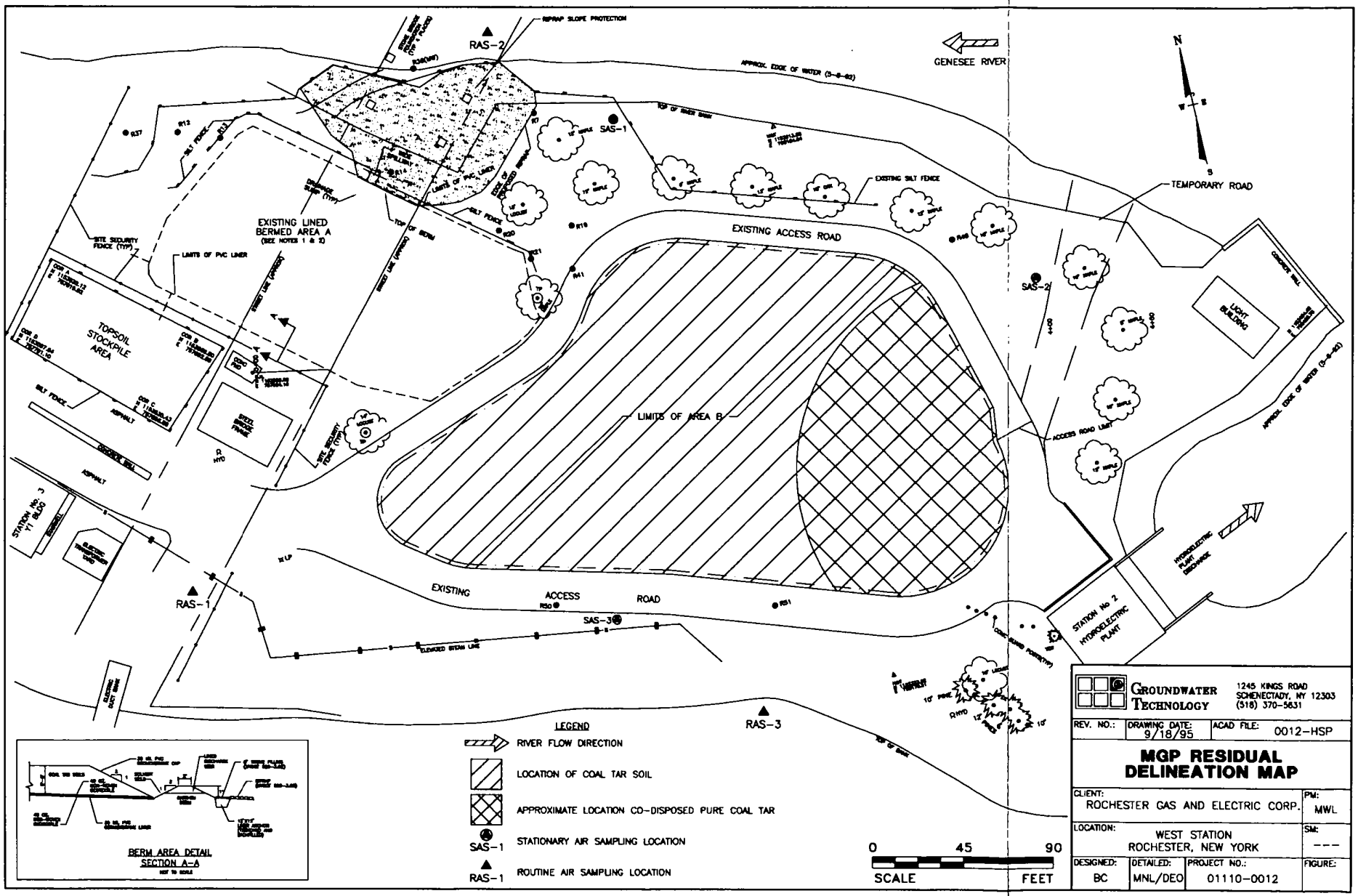
Variance Logs

Required changes to the engineered plans and specifications will be processed through the use of a variance log. Approvals from the facility owner, the design engineer as well as the CQA Officer is required to recommend a change to the engineered drawings and specifications. Once an approved

recommended plan change is received by the design engineer an addendum to the engineered plans and specifications can be completed and returned to the job site.

APPENDIX A

MGP R&D SOIL PROCESSING LAYOUT



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

REV. NO.:	DRAWING DATE:	ACAD FILE:
	9/18/95	0012-HSP

MGP RESIDUAL DELINEATION MAP

CLIENT:	PM:
ROCHESTER GAS AND ELECTRIC CORP.	MWL
LOCATION: WEST STATION ROCHESTER, NEW YORK	SM: ---

DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
BC	MNL/DEO	01110-0012	

APPENDIX B

TYPICAL LOG FORMS

DIL
Project:
Page of:

DAILY INSPECTION LOG

Location:_____

Work being performed:_____

Inspection type:_____

Personnel involved: _____

Observations or test data:_____

_____

_____

Inspection results compared with specification requirements: _____

_____

_____

Was a corrective measure report completed?_____

If so cross reference # _____

Authorized CQC representative on site _____

Date _____

DBS
Project:
Page of

DAILY AS-BUILD SKETCH LOG

Location of sketch area:_____

Sketch area below include cross sections/plan views:_____

_____

_____ _____

Authorized CQC representative on site Date

DPL
Project:
Page of

DAILY PHOTOGRAPHIC LOG

Location: _____

Time: _____

Photograph purpose: _____

Weather: _____

Description: _____

_____

_____

_____

_____ _____

CQC Representative on Site Date

VARIANCE LOG

Location:_____

Drawing/specification reference # _____

Description/proposed changes to engineered plans and specs _____

Requested by _____ Date:_____

Approved by _____ Date:_____
Project Manager

_____ Date:_____
CQA Program Manager

_____ _____
CQC representative on site Date

ML
Project:
Page of

MEETING LOG

Date:_____

Time:_____

Location:_____

Participants:_____

Subject:_____

Minutes of the meeting:_____

_____

_____

Action Items and due dates:

1._____

2._____

3._____

Comments:_____

_____ _____

CQC representative on site Date

PL
Project:
Page of

PHONE LOG

Date:_____

Call received by (signature):_____

Made call ☐ Received call ☐ Returned call ☐

Contact:_____ Title _____

Company name:_____ Phone _____

Address:_____

Topic:_____

_____

Summary of conversation:_____

_____

_____

_____

_____

_____
CQC representative on site

_____
Date

INSTRUMENT CALIBRATION LOG

INSTRUMENT:

GTI #: SERIAL #:

Date Inspected	Calibrated	Condition	Battery	Repairs

Section 1.4

Sampling and Analysis Plan (SAP) dated November 13, 1995 (includes Quality Assurance Project Plan (QAPP) information)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Region 7, Kirkwood Sub-Office
1679 NY Route 11
Kirkwood, NY 13795-1602
(607) 775-2545 FAX (607) 775-2687

Michael D. Zagata
Commissioner

February 06, 1996

Keith Day
Project Engineer
NYSEG Corporation
Corporate Drive - Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

RE: SAMPLING & ANALYSIS PROTOCOL
FOR TAR MATERIALS.
HICKLING STATION CTS THERMAL TREATMENT
ROCHESTER GAS & ELECTRIC
WEST STATION MGP SITE

Dear Mr. Day:

The sampling & analysis protocol for the processing of the tar materials at the West Station MGP site has been reviewed. The details of the protocol are identified on the attached "SAP Addendum No. 1, Analysis Summary for Tar Materials". This protocol is acceptable and approved for use, given the conditions listed below.

1.) This protocol was developed for use with the "Kipin Process". If the MGP material is processed by any other method, a new request must be submitted for protocol approval.

2.) The acceptable limit for the MSE benzene analysis will remain at 20.0 ppm.

3.) The Weekly Interval protocol requires one grab sample to be collected on every 20 tons of final product. The grab samples (e.g. 30 grabs if a weekly total equaled 600 tons) will be composited into one sample to be analyzed for full TCLP, excluding pesticides/herbicides. The number of composite samples analyzed for full TCLP will equal the duration of the project, expressed as a number of weeks.

4.) The CTS may not be transported to Hickling Station until the analytical results demonstrate that each final weekly pile is free of hazardous waste and written approval to transport has been issued.

If you have any questions, please contact me at 607-775-2545. Thank you.

Sincerely,

Andrew J. Goeller
Environmental Program Specialist

cc: J. Swanson
T. Caffoe
K. Hylton

SAP Addendum No. 1
Analysis Summary for Tar Materials

MEDIA AND ANALYSIS	SAMPLES COLLECTED (GRABS)	SAMPLES COMPOSITED	SAMPLES ANALYZED	DUPLICATES	TOTAL SAMPLES ANALYZED	SCHEDULE
First 10 Batches made up of approx. 20 tons each of Final Product[1], 10 tons of tar:						Composites are made at every 20 ton interval of final product[3]
Total benzene (MSE)	40	10	10	1	11	
TCLP Benzene (Confirm)	40	10[2]	10	0	10	
200 Ton Interval of Final Product (Assumes 2,900 tons of tar remaining):	290	29[4]	29	3	32	Composites are made at every 100 ton interval
Total benzene (MSE)						
Weekly Interval:						Composited at weekly intervals
Sulfur (lb/MMBtu)	30	10	10	1	11	
TCLP (exclude pest/herb)	1	1	8	0	8	
TOTAL					72[5]	

Note 1: Assumes 50% mixture by weight (carbon to tar)
Note 2: TCLP for benzene on first ten batches upon acceptable MSE results. Results will be used to develop a correlation between MSE and TCLP benzene analyses.
Note 3: One batch equals twenty tons of final product, of which ten tons are tar
Note 4: Ten grabs composited into each sample
Note 5: The number of samples will vary depending upon the duration of the project. The total sum of samples analyzed by TCLP will be at least ten percent of the MSE benzene samples analyzed.

SAMPLING AND ANALYSIS PLAN (SAP)
WEST STATION REMEDIATION PROJECT
ROCHESTER ELECTRIC & GAS CORPORATION
WEST STATION FORMER MANUFACTURED GAS PLANT SITE
ROCHESTER, NEW YORK

November 13, 1995

Submitted To:
Rochester Gas and Electric Corporation
89 East Avenue
Rochester, New York 14649

Submitted by:
Groundwater Technology, Inc.
1245 Kings Road
Schenectady, New York 12303

#8Reports/RG&E/0268SAP.105

SAMPLING AND ANALYSIS PLAN
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3.0 PROJECT DESCRIPTION

This Sampling and Analysis Plan (SAP) describes the field sampling and QA/QC procedures employed to ensure the integrity, validity and usability of the analytical results to be given in support of this project. These services include preparation of samples for analysis for waste parameters by Environmental Protection Agency (EPA) Test Methods for Evaluating Solid Waste (SW-846) and ASTM Standard Methods for sulfur (lb/MMBtu).

This section provides a brief description of the project site and the purpose and objectives of this SAP.

3.1 Introduction

This Sampling and Analysis Plan (SAP) has been prepared as a component of the Work Plan to conduct the Remediation Project associated with the Rochester Gas & Electric (RG&E) West Station, a former manufactured gas plant (MGP) site in Rochester, New York. Portions of the document were prepared in accordance with the U.S. Environmental Protection Agency's (USEPA) "Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans", QAMS-005/80, dated December 29, 1980. The SAP focuses on specific sample collection and preparation activities that are designed to achieve data quality goals for this specific project. The SAP contains detailed procedures to be utilized during all field investigation and analysis activities relating to the Site.

This section briefly describes the Site and the purpose and objectives of this SAP.

3.2 Site Description

RG&E owns the West Station former MGP facility in Rochester, New York. Coal tar residues have been identified and the extent of their contamination delineated at the West Station facility by RG&E. The coal tar residues can be defined as one of two categories: coal tar soils or coal tar. Figure 3-2 depicts the approximate limits of these materials in Area B.

"Coal tar soils" are a non-hazardous (by characteristic) mixture of soil and MGP residues. The mixture occurs as a result of the co-disposal of earthen materials such as spill from gas line installations with tar, coke, ash and construction debris. The coal tar soils will be processed through a portable screening plant on the site of the former West Station MGP.

"Coal tar", as used in this document, refers to coal tar and potentially minor percentages of gravel, soil, ash, coke, or debris that will be excavated from a known source located at the south end of Area B.

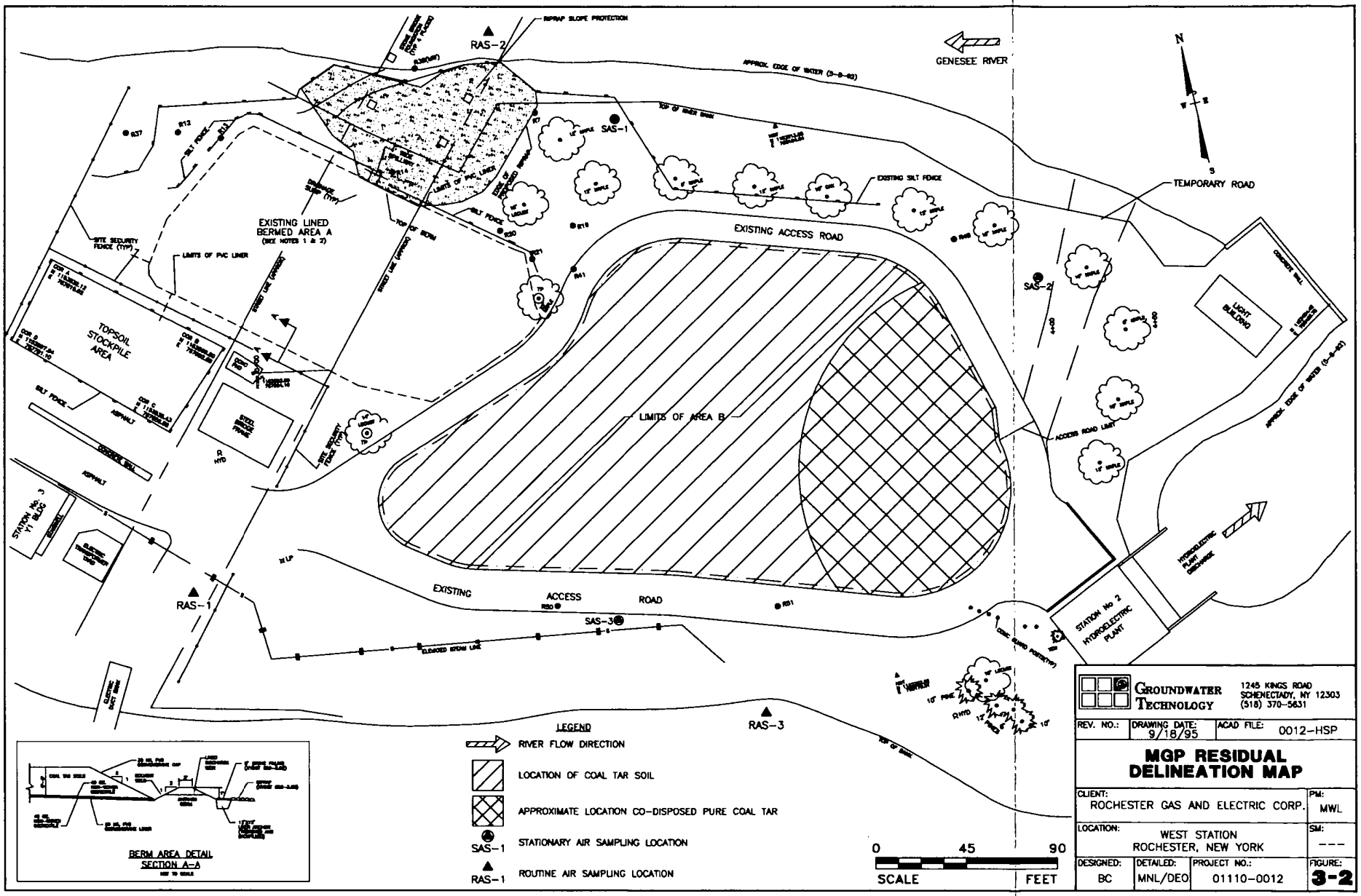
Upon receipt of favorable analytical results, coal tar soils will be transported by truck to the NYSEG Hickling Station power plant located in East Corning, New York. At Hickling Station the materials will be co-burned with coal to achieve complete destruction of MGP residuals. The coal tar will be loaded onto closed top, welded seam containers for shipment to 7-7 Inc. in Wooster, Ohio. There the coal tar will be liquified and sold to a tar refiner. The Work Plan also describes alternatives to both NYSEG and 7-7 Inc. for treatment of coal tar soils and coal tar.

3.3 Project Objectives

The objective of the project is to remediate the site in accordance with the Work Plan for use as a public access recreational area. The MGP residuals present are well known and can be effectively managed through thermal destruction. By project end the site will be acceptable for public access with minor use restrictions.

Figure 3-2

Site Map



GROUNDWATER TECHNOLOGY
1245 KINGS ROAD
SCHENECTADY, NY 12303
(518) 370-5831

REV. NO.:	DRAWING DATE:	ACAD FILE:
	9/18/95	0012-HSP

MGP RESIDUAL DELINEATION MAP

CLIENT:	PM:
ROCHESTER GAS AND ELECTRIC CORP.	MWL
LOCATION: WEST STATION ROCHESTER, NEW YORK	SM: ---
DESIGNED: BC / DETAILED: MNL/DEO / PROJECT NO.: 01110-0012	FIGURE: 3-2

3.3.1 Data Gathering Objectives

The purpose of the remediation project sampling program is to verify material compliance with the acceptance criteria specified by NYSEG or an alternate facility.

Specific Objectives include:

1. Identification of MGP residues and their concentrations, where applicable, so that the materials can be managed in accordance with the Work Plan and environmental regulations.

2. Verify the concentrations of any MGP residues do not pose a significant threat to the environment or human health.

Any solid waste tests to be used in rendering environmental conclusions shall be performed by a New York State ELAP-certified lab. Other tests (sulfur lb/MMBtu) will be conducted by RG&E's own chemical laboratory (RG&E Chem Lab), or by laboratories under contract to, and approved by RG&E for the project. One laboratory subcontracted for the project is Phoenix Environmental Labs, Inc. (Phoenix) of Manchester, Connecticut. An additional laboratory may be chosen by RG&E for the project. This laboratory will be identified as the "Subcontract Lab" in conjunction with certain QA requirements in this document.

3.3.2 Chemical/Physical Parameters To Be Measured

The parameters that will be analyzed in support of the data gathering objectives are listed in Table 3-1.

Table 3-1
West Station Analytical Program

Analytical Parameters	Method	Laboratory
200 Ton Intervals:[1]		
Total Benzene(ppm)	MSE** (MET 2501/MET 4007)	META
TCLP Benzene (mg/L leachate)[2]	*ZHE/EPA 8020	Phoenix
1000 Ton Intervals:		
TCLP Metals		Phoenix
Arsenic	SW-846 7060	
Barium	SW-846 7080	
Chromium	SW-846 7190	
Cadmium	SW-846 7130	
Lead	SW-846 7420	
Mercury	SW-846 7470	
Selenium	SW-846 7740	
Silver	SW-846 7760	
Sulfur (% as rec'd)	ASTM D4239	RG&E Chem Lab
Heat Content (BTU/lb as rec'd)	ASTM D1989	RG&E Chem Lab
Loss On Ignition (LOI)	ASTM C114	RG&E Chem Lab
TCLP Benzene (mg/L leachate)	*ZHE/EPA 8020	Phoenix
1000 Ton Intervals[3]:		
TCLP Organics	*ZHE/EPA 8240	Phoenix
Confirmatory Sampling		
PAHs	MSE (MET 2508/MET 4007)	META Phoenix
QA/QC	EPA 8100	

1 Analyses to performed on every 100 ton interval for fringe area materials or for any soils which are visibly contaminated with coal tar.

2 Test to be performed on 10% of MSE analyzed samples.

3 For first two (2), 1000 ton stockpiles, if analytical results are comparable to historic data, then requirement is waived for halogenated organic compounds.

*ZHE Zero Headspace Extraction.

**MSE Microscale Solvent Extraction. Method references are META SOPs for microscale extraction/simultaneous determination of MAHs and PAHs by GC/FID.

4.0 PROJECT ORGANIZATION AND RESPONSIBILITY

This section presents the project management approach to be implemented for this site.

4.1 Organization and Approach

While all personnel involved in an investigation and in the generation of data are implicitly a part of the overall project and quality assurance program, certain individuals have specifically delegated responsibilities. Their relative positions are discussed below. The positions include Project Director, Project Manager, Manufactured Gas Plant Specialist, Site Engineer, Quality Assurance Managers, and the Health and Safety Officer.

Project Director

Michael Loucy, CHMM will serve as the Project Director for the West Station Remediation Project. In his role as project director, Mr. Loucy will be the point of contact for Groundwater Technology, develop site schedules with senior team members, attend regulatory and community meetings, manage the budget, and track daily project progress. Mr. Loucy will also prepare routine progress reports, invoices, and project site layout.

Project Manager

Joseph Burke, PE is the Northeast District Engineering Manager for Groundwater Technology and will serve as the project manager for the remediation project. His project tasks include assisting in revision of the site-specific project plans, reviewing project budgets, reviewing all deliverables, developing solutions to construction related issues, certifying applicable plans and sampling reports, and supervising the site engineer. Mr. Burke is a New York State registered professional engineer with extensive experience coordinating construction projects.

MGP Specialist

Donald J. Shosky, Jr. serves Groundwater Technology as an MGP specialist, specializing in projects requiring expertise related to the selection and implementation of integrated remedial solutions for MGP facilities. In his role as a MGP Specialist, Mr. Shosky will closely interface with senior team members and develop construction work plans, and develop project schedules. He may also assist in coordinating site activities.

Site Engineer

Brian Carey is a Staff Engineer from Groundwater Technology's Buffalo, New York operation and will serve as the Site Engineer. In his role, he will be responsible for directing field activities, sample collection and preparation, coordinating material management schemes, generating daily logs, clerk of works, monitor health and safety issues, and act as the on-site contact for Groundwater Technology.

Certified Industrial Hygienist

Jeff Stumpf, CIH, holds an MS in Environmental Health and has 15 years of experience in environmental industrial hygiene, safety and risk management. He will serve as a technical consultant on the remediation project to insure worker/community safety.

Health and Safety Officer

Barry L. Bedaw, CHMM, CET, has a BS in Occupational Safety and is the Health and Safety Officer for the project. In this role, Mr. Bedaw will be responsible for establishing the personal and ambient air monitoring program and periodic site inspections. He will also be responsible for the development and implementation of a comprehensive health and safety program in accordance with Groundwater Technology policy and federal and state regulations.

Quality Assurance Manager

The Quality Assurance Manager (QAM) from each laboratory is responsible for overseeing the function of the QA program on a day-to-day basis. The QAM reports directory to the Quality Assurance Officer (QAO) at each laboratory. The responsibilities of the QAM are to review all analytical data generated by the laboratory in accordance with the requirements of the laboratory's standard operating procedures. The QAM will prepare QA review reports for all data packages and advise corrective actions for nonconformances. The QAM will also oversee all projects with regards to the methods and QA/QC practices, and monitor and review all laboratory procedures and activities to assure conformance with the SAP. The QAM will review all progress reports, analytical reports, and project reports prior to issue, and report to the QAO any significant QA issues requiring a decision for resolution.

5.0 SAMPLING PROCEDURES

The object of the West Station Remediation Project is to remediate the site in a manner consistent with the Work Plan and make the land available for use as a public access recreational area. All sampling will be performed in accordance with the Work Plan and NYSEG (or alternate) sampling protocol as is applicable.

5.1 General Procedures

In order to increase the overall accuracy of the sampling and analysis process and prevent bias introduced from sampling, preservation, and handling techniques, this section describes preparatory and procedural tasks to be completed by field personnel responsible for sampling. These general procedures will be used at each sampling event during the remediation project.

Preparatory Tasks

Sampling personnel will:

1. Be thoroughly familiar with task before proceeding.
2. Utilize an appropriate level of personal protection.
3. Have ice for preservation.
4. Have field books, sample labels (See Section 6.0), sample containers, stainless steel scoop, stainless steel bowl, sampling gloves, and site map.
5. Have decontamination supplies including: five gallon buckets, detergent (Liquinox^{R}), hexane, distilled water, clean water source, clean roll of plastic, garbage bags.

Procedural Tasks

Sampling personnel will insure that:

1. Equipment (scoops, bowls) are decontaminated.
   a. Decontamination area is prepared.
   b. Clean plastic is used.
   c. Equipment is cleaned thoroughly.
   d. Equipment is air dried.
2. Sample gloves are used.
3. Samples preserved and secured properly.

4. Duplicates are taken when required.

5. Duplicates are clearly referenced in notebook.

6. Sample information is recorded in Master Sample Log, including the following:
   a. location where sample was obtained
   b. sample identification
   c. date and time of sample collection
   d. physical appearance
   e. weather conditions during sampling operations

7. All sample locations are marked on site map if applicable.

8. All disposable sampling equipment is collected in a plastic garbage bag.

9. Decontamination procedures are repeated when necessary.

10. Holding times for samples known.

11. All samples are shipped with chain-of-custody procedures followed, including confirmation of proper icing of samples.

12. Confirm that laboratory received samples (if applicable).

13. Check to see if any amendments to the checklist are required. If so, report these amendments.

5.2 Site Specific Sampling Procedures

During the remediation project, samples of excavated and processed coal tar soil will be collected to comply with the Work Plan as well as acceptance criteria specified by NYSEG (or alternate). An estimated summary of all samples to be collected, stored, and analyzed is presented as Table 5-1.
All sampling and analysis of the coal tar soils to be shipped to NYSEG will be sampled according to the NYSDEC approved "05-20-94 Sampling and Analysis Protocol for Coal Tar Sites" along with the exceptions approved by NYSDEC September 14, 1995 letter to NYSEG (see appendix A). Modifications are only relative to the number of samples taken and analyses to be performed. The sample collection and compositing protocol was not modified.

The following sections describe the sampling protocol to be followed during the remediation project.

5.2.1 Sampling at 200 Ton Intervals

Two representative samples will be collected from each 200 ton interval of coal tar soil generated. A representative sample will consist of 20 grabs, one from each 10 ton interval or portion of soil. The first sample will split with one portion to be analyzed for Total Benzene by MSE (microscale solvent extraction). and the other portion saved. If the analytical result shows that the sample meets the 20.0 ppm limit for Total Benzene by MSE, then that particular 200 ton interval is deemed acceptable. As required by NYSDEC, 10% of all Total Benzene by MSE analyses will be confirmed by TCLP analysis. If the results meet the limit, the saved portion of the first sample will be disposed with the acceptable soil.

If the first sample exceeds the limit for Total Benzene by MSE, then the saved portion of the sample will be analyzed for TCLP Benzene. Should the TCLP analysis exceed the acceptable limit of 0.5 ppm fro Benzene, the entire soil pile represented by these analyses and comingled stockpiled soils will be reprocessed according to the approved protocol.

During excavation of interface materials (mixtures of coal tar soil and coal tar) or soils visibly contaminated with coal tar, the sampling interval will be increased to 100 ton intervals.

5.2.2 Sampling at 700 to 1000 Ton Intervals

The second sample from each 200 ton interval will be combined with four additional 200 ton interval samples to create a 700 to 1,000 ton composite. The 1,000 ton boundary condition is based on NYSDEC's acceptance and modification of NYSEG's 6 NYCRR Part 360 permit criteria. In the event 700 tons or more are excavated and processed in one day then that quantity will be the stockpile size and a daily composite collected for analysis. Where lower production quantities are achieved (i.e., > 700 tons per day) the next consecutive excavation and processing day will be used to obtain the balance of materials to achieve a 1,000 ton stockpile. The date on which the compositing to form the single 1,000 ton sample occurs will be considered the date of the sample. The 700 to 1,000 ton interval sample will be split into two portions. The first portion will be analyzed for the following parameters according to the approved modified sampling and analysis protocol for the West Station Remediation Project:

1. TCLP Metals (analysis for iron is not required)
   Arsenic, Barium, Chromium, Cadmium, Lead, Mercury, Selenium, Silver
2. Sulfur (lb./MMBtu)
3. List 4 TCLP Analysis (pesticides and herbicides not required)

The remainder of the List 4 TCLP Analysis will be performed on the first two 700 to 1,000 ton samples. Upon receipt of favorable results, all organic halogenated compounds included on List 4 will not be required for future stockpiled materials. Therefore, any additional 700 to 1,000 ton samples will only be analyzed for TCLP Metals (as detailed above), Sulfur, and TCLP analysis of the following compounds: Benzene, Cresol (total), 2,4 Dinitrotoluene, Methyl ethyl ketone, Nitrobenzene, and Pyridine. These compound constitute the List 4 compounds without pesticides, herbicides, and organic halogenated compounds. Upon receipt of acceptable results, the 700 to 1,000 ton interval will be sent to NYSEG for thermal treatment.

If analytical results show that any one of the components exceed the acceptable limit, then the second portion of the split sample will be analyzed for the above described List 4 Analysis. Should the analysis show that any component exceeds the limit, then the entire 700 to 1,000 ton soil interval will be appropriately reprocessed.

5.2.3 Confirmatory Sampling

The slope of the excavation will be sampled and the materials analyzed for total polynuclear aromatic hydrocarbons (PAHs) to confirm less than 1% PAHs are present. The samples will be collected on 50 feet centers across the entire area of excavation. If the analytical results show that greater than 1% or 10,000 mg/kg of PAHs are present then additional materials will be excavated and processed for off-site disposal.

5.3 Decontamination of Sampling Equipment

Decontamination of all sampling tools and equipment will follow the following procedure.

1. Wipe off gross contamination.
2. Wash with solution of detergent and clean water.
3. Rinse with distilled water.
4. Rinse with hexane.
5. Rinse with distilled water.
6. Air dry.

5.4 Sampling Summary

The sampling schedule is summarized in the Table below (Table 5-1). This table includes QA/QC samples (duplicates at 10%). Table 5-2 shows all sampling containers and preservatives required for each analysis that will be completed. The presented analysis summary is based on an estimated 11,250 tons of coal tar soil to be transported to NYSEG.

TABLE 5-1
ANALYSIS SUMMARY

MEDIA AND ANALYSIS	WEST STATION REMEDIATION PROJECT				TOTAL	SCHEDULE
	SAMPLES COLLECTED	SAMPLES COMPOSITED	SAMPLES ANALYZED	DUPLICATES	SAMPLES ANALYZED	
200 TON INTERVAL						COLLECTED AT EVERY 200 TON INTERVAL
TOTAL BENZENE (MSE)	2280	114	57	6	63	
TCLP BENZENE (CONFIRMATORY)	6	0	6	1	7	
700 TO 1,000 TON INTERVAL TCLP(EXCLUDING HALOGENATED ORGANICS) SULFUR (LB/MMBTU)	57	11	11	1	12	COMPOSITED AT EVERY 700 TO 1,000 TON INTERVAL
700 TO 1,000 TON INTERVAL TCLP HALOGENATED ORGANICS	10	2	2	0	2	COMPOSITED AT EVERY 700 TO 1,000 TON INTERVAL FOR THE FIRST 2,00 TONS
OTHER ANALYSES						COLLECTED AT ROUTINE INTERVALS DURING PROJECT
LOSS ON IGNITION	15	3	3	0	3	
PAHS	20	0	20	2	22	
				TOTAL:	109	

TABLE 5-2
WEST STATION REMEDIATION PROJECT
SAMPLING CONTAINERS, PRESERVATION, AND HOLDING TIMES

Parameter	Matrix	Container	Preservation	Holding Time
TCLP Analysis Metals Volatiles Semivolatiles	Coal Tar Soil	Glass w/TFE lined septum cap/8 oz.	4°C	14 days until TCLP extraction; 40 days from extraction until analysis
Total Benzene (MSE)	Coal Tar Soil	Glass w/TFE lined septum cap/4 oz.	4°C	7 days
Sulfur LOI	Coal Tar Soil	Glass wide-mouth (1 liter) w/TFE lined cap	None	30 days
PAHs	Coal Tar Soil	Glass wide-mouth w/TFE lined septum cap/4 oz.	4°C	7 days until extraction; 40 days from extraction until analysis

PAHs - Polynuclear Aromatic Hydrocarbons
MSE - Microscale Solvent Extraction
TFE - Teflon

6.0 SAMPLE CUSTODY

A sample is the physical evidence collected from a site or the environment. An important part of the project record is the control and tracking of the evidence collected.

The primary objectives of sample custody procedures are to create accurately written records that can be used to trace the possession and handling of all samples from the moment of their collection, through analysis, until their final disposition. Sample custody for samples collected during this investigation will be maintained by the Site Engineer or other field personnel collecting the samples. The field personnel are responsible for documenting each sample transfer and maintaining custody of all samples until they are shipped to the laboratory.

6.1 Field Custody Procedures

All necessary sample bottles will be shipped by the laboratory. Sample bottles needed for a specific sampling task will be relinquished by the Site Engineer to the sampling team after the Site Engineer has checked the integrity of the bottles and assured that the proper bottles have been assigned to the task to be conducted. The chain-of-custody (COC) will begin with the Site Engineer relinquishing the bottles to the sampling team.

Immediately after sample collection, each sample will be placed into an insulated cooler for shipment to the laboratory. Field chain-of-custody records (Figure 6-1) completed at the time of sample collection will accompany the sample cooler placed inside the cooler in a Zip-Lock Baggie. The cooler is then sealed for shipment to the laboratory. The samples will be properly relinquished on the field chain-of-custody record by the sampling team. Each cooler will contain sufficient ice and/or ice packs to insure proper temperature is maintained, and will be packed in a manner to prevent damage to sample containers. All coolers will be delivered directly to the laboratory. Each sample collected during the sampling program will be assigned a unique sampling number by the sampling collector. The sample identification number will be an alphanumeric code identifying the project, media sampled, date, and sample sequence (Figure 6-2).

Example:

RGE-101395-S1

Where:

RGE = Rochester Gas and Electric Corp.

101395 = October 13, 1995

S = Coal Tar Soil (T = Tar, C = coal, M = mixture coal and soil)

1 = First sample in sequence from that media

All samples analyzed by the laboratory are to be considered to be of an evidentiary nature. The possession of samples must be traceable from the time samples are collected in the field until the analysis is completed and the data are entered as evidence. The tracing of the samples is accomplished by "chain-of-custody" procedures as follows:

1.) A chain-of-custody record (Figure 6-1) will be completed for each set of samples.

2.) Samples will not leave custody of the field sampler until relinquished to another party.

Custody is defined as:

1.) In the actual physical possession of field personnel.

2.) In the field personnel's view after being in physical possession.

3.) In a secured area after being in physical possession.

4.) In a designated, secured storage area.

6.2 Laboratory Chain-of-Custody

Upon arrival at the laboratory, the Sample Custodian at the lab must maintain possession of the chain-of-custody samples and all records documenting that possession. Upon receipt of samples, the sample custodian removes the chain-of-custody from the sealed cooler and must sign the shipping report accompanying each sample and records the date and time. Samples received are verified to match those listed on the chain-of-custody, and the custody seals inspected. A copy of this record becomes part of the report file. The custodian must sign the COC "Received By" laboratory space. The samples are then secured under lock and key in refrigerated storage.

After each extraction or analysis of a sample fraction, the custody record must be signed by the analyst, indicating the date and time of completion, which samples were used, and to which location they were returned.

By signing the custody record, the individual affirms that he was completely responsible for the sample fraction during the period of time it was not in the secure storage.

6.3 Laboratory Sample Tracking and Management

The laboratory will maintain sample information records in a "login" database. The sample receipt and data entry activity (called "login") is reflected in a daily report, which is immediately entered into the master logbook. This chronological file contains all samples.

Each laboratory manager gets a report of pertinent analyses not yet completed including the daily update from the login activity. The tracking continues until the system registers the completion of report.

COMPANY NAME: _____ PHONE #: _____

COMPANY ADDRESS: _____ JOB NAME: _____

PROJECT MANAGER: _____ JOB#: _____

SAMPLER NAME (PRINT): _____

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

12345

ANALYSIS REQUEST

FIELD SAMPLE ID	LAB #	MATRIX			METHOD PRESERVED			SAMPLING		EPA 503.1	EPA 601	EPA 602	EPA 624	EPA 625	EPA 8080	OTHER		
		WATER	SOIL	OTHER	ACID	ICE	OTHER	DATE	TIME									

TAT	SPECIAL HANDLING	SPECIAL DETECTION LIMITS	REMARKS
PRIORITY (24 HR) EXPEDITED (48 HR) OTHER _____			

QA/QC LEVEL	SPECIAL REPORTING REQUIREMENTS	LAB USE ONLY LOT#
BLUE ___ CLP ___ OTHER ___	FAX: YES NO	STORAGE LOCATION WORK ORDER #

CUSTODY RECORD				
	RELINQUISHED BY SAMPLER:	DATE:	TIME:	RECEIVED BY:
	RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:

FIGURE 6 - 1
CHAIN OF
CUSTODY FORM

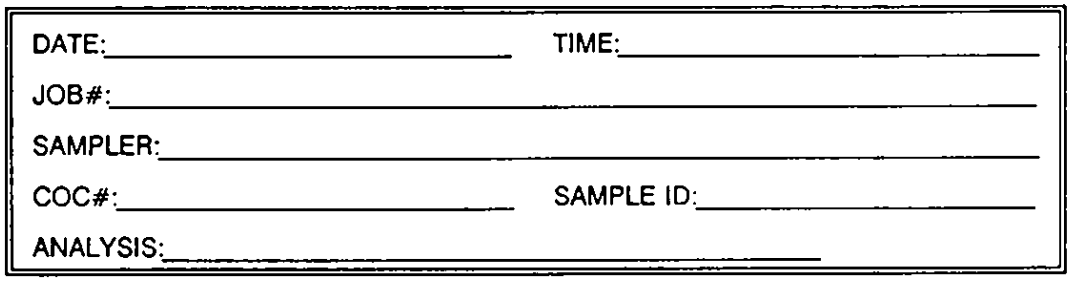


FIGURE 6-2
SAMPLE LABEL

SECTION 1.5

Final NYSDEC letter of release

716 724 8683 P.01/01

New York State Department of Environmental Conservation
Region 8 - Division of Environmental Remediation
6274 East Avon-Lima Road, Avon, New York 14414-9519

Telephone: (716) 226-2466, Fax: (716) 226-2909

John P. Cahill
Acting Commissioner

John T. Hicks
Regional Director

April 3, 1997

Mr. Kevin Hylton
Senior Environmental Analyst
Rochester Gas & Electric
89 East Avenue
Rochester, New York 14649

Dear Mr. Hylton:

RE: Rochester Gas & Electric West Station Manufactured Gas Plant Remediation Report (November 25, 1996)

Staff at the New York State Department of Environmental Conservation (the Department), New York State Department of Health (NYSDOH), and the Monroe County Health Department (MCHD) have reviewed the referenced report. Based upon our review, the report meets the requirements of the approved work plan and the approved work plan modifications dated January 11, 1996 (RE: Coal Tar Blending), February 29, 1996 (RE: Addition of Quick-Lime to Coal Tar Blend) and August 2, 1996 (RE: Cliff-Based Soils). The portions of the report pertaining to the Voluntary Cleanup Agreement (Index# D8-0001-95-10) are hereby approved.

Please call me if you have any questions. Thank you for your continued cooperation.

Sincerely,

Todd M. Caffoe

Todd M. Caffoe, P.E.
Environmental Engineer II
Division of Environmental Remediation

cc: M.J. Peachey
C. Sullivan
J. VanHoesen
E. Obrecht
R. Elliott
D. Napier

Post-it® Fax Note 7671	Date 4/4/97	# of pages ▶ 1
To Tom Walsh	From Kevin Hylton	
Co./Dept. Jaeckle Fleischmann	Co. RGE	
Phone #	Phone # 724-8428	
Fax # 262-4133	Fax # 724-8683	

TOTAL P.01
TOTAL P.01

DEE IMUSED

Post-it® Fax Note 7671 | Date 4/8 | pages 2

To Tom Walsh	From Charlie
Co./Dept.	Co. Sullivan
Phone #	Phone # 518 457-1347
Fax #	Fax #

New York State Department of Environmer
Division of Environmental Enforcement
State Superfund and Voluntary Cleanup Practice Gr
50 Road, Room 410A
Albany, New York 12233-5550
Telephone: (518) 457-4347
Fax (518)457-7819 (not for service of process)

John P. Cahill
Acting Commissioner

4 April 1997

Mr. Kevin Hylton
Rochester Gas and Electric Corporation
89 East Avenue
Rochester, New York 14649

Re RG&E (West Station) Voluntary Agreement
Department Agreement Index No. D8-0001-95-10

Dear Mr. Hylton:

In accordance with Subparagraph I.F of the subject agreement, by letter dated 3 April 1997, Todd M. Caffoe, P.E., of this Department's Avon office informed you of the Department's satisfaction with the remediation completed at the parcel of land located at RG&E's West Station property, consisting of that land located at the foot of the High Falls on the west bank of the Genesee River in the City of Rochester, sometimes known as "Beebee Park," a legal description of which is attached hereto as Appendix "A." So long as no information has been withheld from the Department or mistake made as to the hazard posed by any site-related compound or analyte of concern, the Department believes that no further investigation or response will be required at the Beebee Park property for any coal tar contamination existing as of the effective date of the subject Agreement.

Assignable Release and Covenant Not To Sue by Department:

The Department, therefore, hereby releases, covenants not to sue, and forbears from bringing any action, proceeding, or suit against, the current or future owners and operators of the Beebee Park property or any interest in that property, including the Rochester Gas and Electric Corporation ("Volunteer"), the Volunteer's lessees, sublessees, successors, and assigns, and their respective secured creditors, for the further investigation or remediation of the site based upon the release or threatened release at the Beebee Park property of any coal tar, including any hazardous substance, pollutant, waste and/or contaminant constituents, present or existing in, on, at or under the site as of the effective date of the subject Agreement ("Existing Contamination"); provided that (a) timely payments of the amounts specified in Paragraph VI of the subject Agreement are being or have been made to the Department, and (b) the Volunteer and/or its lessees, sublessees, successors, or assigns promptly commence and diligently pursue to completion the Department-approved post-response operation and maintenance plan, if any.

Nevertheless, the Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary:

1. due to environmental conditions related to the Site that were unknown to the Department at the time of its approval of the Work Plan or the last written modification approved by the Department thereto; or

2. due to information received, in whole or in part, after the Department's approval of the final engineering report and certification, which indicates that the response action performed at the site regarding the Existing Contamination is not sufficiently protective of human health for the reasonably anticipated commercial/industrial/recreational uses of the Site by Volunteer or its lessees, sublessees, successors, and assigns.

Additionally, the Department hereby reserves all of its rights concerning, and any such release, covenant not to sue, and forbearance shall not extend to any of Volunteer's lessees, sublessees, successors, or assigns who causes a, or suffers the, release or threat of release, at the Site of any hazardous substance (as that term is defined at 42 USC 9601[14]) or petroleum (as that term is defined in Navigation Law § 172[15]) after the effective date of the subject Agreement; who causes a, or suffers the use of the Site to, change from commercial/industrial/recreational use to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health; or who is otherwise a responsible party for the Existing Contamination.

In accordance with Paragraph X of the subject Agreement, within 30 days of the receipt of Mr. Caffoe's letter, please cause to be recorded an instrument with the Monroe County Clerk, to run with the land, that shall prohibit the Site from ever being used for purposes other than commercial/industrial/recreational use without the express written waiver of such prohibition by the Department, or if at such time the Department shall no longer exist, any New York State department, bureau, or other entity replacing the Department. Please also provide me with a copy of such instrument certified by the Monroe County Clerk to be a true and faithful copy of the instrument as recorded in the Office of the Monroe County Clerk.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

By: _____
Charles E. Sullivan, Jr.
Chief, State Superfund and
Voluntary Cleanup Practice Group

cc: T. Walsh
M. Peachey
T. Caffoe
R. Cozzy