The electronic version of this file report should have the file name:

Type of document.Spill Number.Year-Month.File Year-Year or Report name.pdf

report. hw 915140 1996 -02-01 INTERIM REMEDIAL. pdf
MEASURE REPORT

Project Site numbers will be proceeded by the following:

Municipal Brownfields - b

Superfund - hw

Spills - sp

ERP - e

VCP - v

BCP - c

non-rele**as**able - put .nf.pdf

Example: letter.sp9875693.1998-01.Filespillfile.nf.pdf

142

# REPORT

# Interim Remedial Measure Report Soil/Drainline Remediation Activities

Tennessee Gas Pipeline Company Compressor Station 229 Eden, New York

February 1996



18/2

# New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233-7010

# RECEIVED

FEB 2 3 1996

NYSDEC-REG. 9
FOIL
REL \_\_UNREL



FEB 2 2 1996

Mr. Charles Amento
Bureau of Environmental Exposure Investigation
New York State Department of Health
Two University Place
Albany, New York 12203-3313

Dear Mr. Amento:

Re:

Site #9-15-140

Tenneco Station 229

Erie County

Enclosed please find a copy of the Interim Remedial Measure Report for Tenneco Station 229. Please review and comment by March 14, 1996. By effect of this letter, I am requesting comments from all those receiving copies.

If you have any questions, please call Jim Drumm at 457-7878.

Sincerely,

George Harris, P.E.

Chief, Western Field Services Section Bureau of Construction Services Div. of Hazardous Waste Remediation

**Enc**losure

w/enc.:

cc:

J. Moras

C. Dowd - DFW

J. Walia - NYSDEC, Region 9 C. O'Connor - NYSDOH, Buffalo

# Interim Remedial Measure Report Soil/Drainline Remediation Activities

Tennessee Gas Pipeline Company Compressor Station 229 Eden, New York

February 1996

BLASLAND, BOUCK & LEE, INC. ENGINEERS & SCIENTISTS

> 6723 Towpath Road Syracuse, New York 13214 (315) 446-9120

# Table of Contents

	<u>Page</u>
EXECUTIVE SUMMARY	i
SECTION 1 - INTRODUCTION 1.1 General 1.2 Facility Description 1.3 Report Format 1.4 Remediation Project Roles	1 1 1 2 2
SECTION 2 - OVERVIEW OF REMEDIATION 2.1 General 2.2 Remediation Requirements 2.2.1 Soils 2.2.2 Drainlines 2.3 Scope of Remediation Activities 2.3.1 Soil Remediation 2.3.2 Drainline Remediation	4 4 4 4 4 5 6
SECTION 3 - SOIL REMEDIATION 3.1 General 3.2 Pre- and Post-Remediation Sampling 3.3 Soil Remediation 3.3.1 Air Receiver Tank (ART) Area 3.3.1.1 Pre-Remediation Delineation 3.3.2 Remediation and Verification 3.3.2 Pipe Rack Area 3.3.2.1 Pre-Remediation Delineation 3.3.2 Remediation and Verification 3.3.3 Scrap Yard Area 3.3.3.1 Pre-Remediation Delineation 3.3.3.2 Remediation and Verification 3.3.4 Compressor Building Area 3.3.4.1 Pre-Remediation Delineation 3.3.4.2 Remediation and Verification 3.3.5 Shop Building Area 3.3.5.1 Pre-Remediation Delineation 3.3.5.2 Remediation and Verification 3.3.6 Auxiliary Building Area 3.3.6.1 Pre-Remediation Delineation 3.3.7 Drainage Ditch B Area 3.3.7.1 Pre-Remediation Delineation 3.3.7.2 Remediation 3.4 Air Monitoring Results 3.5 Backfill and Restoration of Excavated Areas 3.6 Summary	7 7 7 8 10 10 10 11 11 11 12 12 12 12 13 13 13 14 14 14 15 15 15 17 17 17 17 18 18

Table of Contents	
	<u>Page</u>
SECTION 4 - DRAINLINE REMEDIATION 4.1 General 4.2 Drainline C 4.3 Drainline D	20 20 20 21
SECTION 5 - QUALITY ASSURANCE/QUALITY CONTROL 5.1 General 5.2 Sample Collection 5.3 Immunoassay Screening Analysis 5.4 Laboratory Screening Analysis 5.5 Confirmation Sample Analysis	23 23 23 24 24 24
SECTION 6 - POST-REMEDIATION ACTIVITIES 6.1 General 6.2 Data Management	25 25 25
REFERENCES	26
TABLES	
Pre- and Post-Remediation PCB Sampling Analysis Results - Air Receiver Tank Area Pre- and Post-Remediation PCB Sampling Analysis Results - Pipe Rack Area Pre- and Post-Remediation PCB Sampling Analysis Results - Scrap Yard Area Pre- and Post-Remediation PCB Sampling Analysis Results - Compressor Building Area Pre- and Post-Remediation PCB Sampling Analysis Results - Shop Building Area Pre- and Post-Remediation PCB Sampling Analysis Results - Auxiliary Building Area Pre- and Post-Remediation PCB Sampling Analysis Results - Drainage Ditch B Area Disposal Summary	
FIGURES	
Site Plan Sample Location Key Air Receiver Tank Remediation Area Pipe Rack Remediation Area Scrap Yard Remediation Area North Compressor Building Remediation Area South Compressor Building Remediation Area Shop Building Remediation Area Auxiliary Building Remediation Area 1 Auxiliary Building Remediation Area 2 Drainage Ditch B Remediation Area Drainline Remediation	
ATTACHMENTS	
<ul> <li>Plate 1: IRM Soil Remediation Areas - Interim Remedial Measure Work Plan Tennessee Ga Company Station 229, Eden New York (Environ, April 1995)</li> <li>Backfill Material Laboratory Summary Sheets</li> <li>Manhole 10 Waste Characterization Sample Results</li> </ul>	s Pipetine

### **CERTIFICATION STATEMENT**

I hereby certify that this document has been prepared in accordance with the requirements of the Order on Consent (#A9-0328-9503, dated July 24, 1995) between the New York State Department of Environmental Conservation (NYSDEC) and the Tennessee Gas Pipeline Company (TGP) for the development and implementation of an Interim Remedial Measure (IRM) at TGP's Compressor Station 229, Eden, New York. Furthermore, I certify that the IRM was performed as described herein and that unless otherwise noted, such performance was in accordance with the requirements specified in the document entitled "Interim Remedial Measure Design Plan Tennessee Gas Pipeline Company Compressor Station 229 at Eden, New York" (July 1995) which was prepared by Blasland, Bouck & Lee, Inc. under my signature and stamp as a Professional Engineer in the State of New York.



Robert K. Goldman, P.E. N.Y.P.E. No. 60817

2/10/96 Date

### **CERTIFICATION STATEMENT**

I hereby certify that the IRM was performed as described herein and that unless otherwise noted, such performance was in accordance with the requirements specified in the document entitled "Interim Remedial Measure Design Plan, Tennessee Gas Pipeline Company, Compressor Station 229 at Eden, New York" (July 1995).

J. Paul Doody, P.E.
Project Manager

Z/9/9/ Date

Mark O. Gravelding, P.E.
Senior Project Engineer

2/9/96 Date

Joseph Molina, P.E.

Engineer's On-Site Representative

2/9/96 Date

# **EXECUTIVE SUMMARY**

Between July 1995 and September 1995, Tennessee Gas Pipeline Company (TGP) performed an Interim Remedial Measure (IRM) at TGP's Compressor Station 229, located near Eden, New York. The IRM was performed in accordance with an Order on Consent (#A9-0328-9503, dated July 24, 1995) between TGP and the New York State Department of Environmental Conservation (NYSDEC), and consistent with the procedures established in documents entitled "Interim Remedial Measure Work Plan Tennessee Gas Pipeline Company Station 229, Eden, New York" (the "IRM Work Plan") and the "Interim Remedial Measure Design Plan Tennessee Gas Pipeline Company, Compressor Station 229 at Eden, New York" (the "IRM Design Plan"). Two primary remediation components were performed: (1) the excavation and off-site disposal of soils containing polychlorinated biphenyls (PCBs); and (2) the closure of various drainlines and related appurtenances.

Soil remediation was performed in seven areas of the site. These areas are as follows:

- Air Receiver Tank Area;
- Pipe Rack Area;
- · Scrap Yard Area;
- Compressor Building Area;
- Shop Building Area;
- Auxiliary Building Area; and
- Drainage Ditch B Area.

Remediation generally involved the excavation and off-site disposal of soils exceeding PCB levels specified in the Work Plan. However, a portion of the Air Receiver Tank Area remediation consisted of the installation of a low-permeability cap after removal of some soils.

Within the soil excavation areas, approximately 414 in-place cubic yards (cy) of soil were excavated and disposed off-site. The total volume was disposed at the Chemical Waste Management facility in Model City, New York. Excavation areas were subsequently backfilled, regraded and restored to match original conditions.

Drainline remediation was performed for two on-site drainline systems: Drainlines C and D. Portions of these drainlines were closed by filling with non-shrink grout. Approximately 3,025 linear feet of drainline were closed via filling with non-shrink grout.

Certain post-IRM activities also have been or will be implemented at Station 229 to provide for the long-term maintenance and management of the remediated site. These activities include further evaluation of the site as part of the feasibility study (including long-term site management activities such as operations, maintenance, and monitoring) and long-term management of data collected as part of IRM activities.

Overall, the intent of this IRM Report is to summarize the remediation activities performed at Station 229, and to demonstrate that the completed activities satisfy the requirements established in the IRM Design Plan and IRM Work Plan and provide documentation of any variances from these plans, all in accordance

with the requirements of Order on Consent (#A9-0328-9503, dated July 24, 1995). To this end, the document provides a summary of the pertinent background information, area-specific summaries of soil and drainline remediation activities, quality assurance/quality control information, and a description of post-remediation activities.

# Section 1

BLASLAND, BOUCK & LEE, INC. engineers & scientists

# SECTION 1 - INTRODUCTION

#### 1.1 General

Between July 1995 and September 1995, TGP performed an IRM at TGP's Compressor Station 229, located near Eden, New York. The primary focus of IRM activities involved the presence of PCBs and included the removal of on-site soils and the closure (via filling with non-shrink grout) of drainlines. TGP proposed this IRM to the NYSDEC as a means of expediting remediation at the site. The extent of soil removal and drainline closure was based on specific criteria as presented in a document entitled "Interim Remedial Measure Work Plan Tennessee Gas Pipeline Company Station 229, Eden, New York" (Environ Corporation, April 1995) hereafter referred to as the "IRM Work Plan."

The scope and closure requirements of the IRM at Station 229 were established in a document entitled "Interim Remedial Measure Design Plan Tennessee Gas Pipeline Company Compressor Station 229 at Eden, New York" (Blasland, Bouck & Lee, Inc., July 1995) hereafter referred to as the "IRM Design Plan." Approval of the IRM Design Plan was provided by NYSDEC in a letter dated July 13, 1995.

As required by the Order on Consent (#A9-0328-9503, dated July 24, 1995) between TGP and NYSDEC, two primary remediation components were addressed in the IRM Design Plan: (1) the excavation and offsite disposal of certain PCB-containing soils; and (2) the closure of various drainlines and related appurtenances. Documentation of these activities is provided in this IRM Report.

## 1.2 Facility Description

TGP owns and operates a natural gas pipeline system which extends from Texas to New England. Compressor stations are located at various points along the pipeline to pressurize the natural gas in the pipeline to facilitate its transmission. Several of these compressor stations are located throughout New York. Station 229 is located near Eden, Eric County, New York. This station occupies approximately 50.5 acres and is bordered on the north by residences, on the east by East Eden Road, on the south by agricultural land, and on the west by forested land.

The primary operational facilities at Station 229 consist of the Compressor Building, which contains six reciprocal-type gas compressor engines, an Auxiliary Building which contains the starting air compressors, and an area that contains seven air receiver tanks (ARTs) immediately west of the Auxiliary Building. In addition, a dehydration facility, utility building, shop building, truck garage, station warehouse, pipeline warehouse, meter buildings, heliport, and office building are present at the station. A lake and separator pond are located in the southwestern portion of the site. A site plan for the station is provided as Figure 1.

Drainage systems have been utilized at Station 229 for the conveyance and discharge of sanitary wastes, storm water, and floor, roof, and foundation drainage for several buildings. With the exception of sanitary wastes, these systems discharge to surface outfalls. The sanitary wastes discharge to a public sanitary sewer system. Additional components of these systems (depending on the specific system) include holding tanks, oil/water separators, manholes, and other drainline appurtenances. A total of four discharge outfalls have been utilized at the site. These include Outfalls 001, 002, 003, and 004 (Outfall 004 formerly discharged to the west of the station lake and was re-routed to the separator pond in 1981).

## 1.3 Report Format

The purpose of this IRM Report is to document the remediation activities performed at Station 229 and to demonstrate that the completed activities satisfy the requirements established in the IRM Work Plan and IRM Design Plan and to provide documentation of changes from these plans, all in accordance with the Order on Consent (#A9-0328-9503). To this end, this document provides a summary of the pertinent background information, area-specific summaries of soil and drainline remediation activities, quality assurance/quality control information, and a description of post-remediation activities.

In addition to the report narrative, several tables, figures, and attachments have been prepared to summarize the IRM activities. In general, tables and figures are provided at the end of the section in which they are first referenced. However, in Section 3, tables and figures are provided at the end of each tabbed section (tabbed sections are provided for each soil remediation area). All attachments are provided at the end of the document. Throughout the report, this information will be referenced as appropriate.

# 1.4 Remediation Project Roles

Soil and drainline remediation activities at Station 229 involved several firms, organizations, and facilities, including the following:

- Tennessee Gas Pipeline Company (TGP), Houston, Texas TGP is the owner and operator of Station 229. TGP secured the services of the various firms, organizations, and facilities involved in remediation activities and provided overall coordination during remediation. TGP also provided a Chief Inspector, who served as TGP's on-site representative during remediation activities.
- New York State Department of Environmental Conservation (NYSDEC) NYSDEC reviewed and approved the IRM Work Plan and Design Plan and conducted periodic inspections of on-site remediation activities. Primary regulatory oversight was provided by the NYSDEC Region 9 Office in Buffalo, New York.
- Environ Corporation (Environ), Princeton, New Jersey Environ coordinated the collection and presentation of the previous site characterization data, assisted TGP in developing the IRM Work Plan and coordinating with regulatory agencies, and supported the IRM activities.

- Blasland, Bouck & Lee, Inc. (BBL), Syracuse, New York BBL prepared the IRM Design Plan including the IRM Contract Documents, performed pre- and post-remediation sampling, performed field immunoassay PCB analyses, provided an Engineer's On-Site Representative to monitor the Remediation Contractor's general compliance with the Contract Documents, and assisted TGP in coordinating with regulatory agencies and various assessment, permitting, and support activities.
- Philip Environmental Services Corporation, (Philip), Houston, Texas Philip served as the Remediation Contractor. Philip performed IRM activities or directed subcontractor services as necessary to implement soil and drainline remediation activities in accordance with the Contract Documents.
- RECRA Environmental Inc. (RECRA), Amherst, New York RECRA served as the analytical laboratory for the analysis of delineation and verification samples collected at Station 229.
- Chemical Waste Management (CWM) Model City Landfill, Model City, New York The CWM Model City facility was utilized for the disposal of solid waste materials containing greater than 25 parts per million (ppm) PCBs and for the disposal of liquid wastes generated during remediation activities. The facility is permitted under the provisions of 40 CFR 761 to accept such materials.

# Section 2

BLASLAND, BOUCK & LEE, INC. engineers & scientists

# SECTION 2 - OVERVIEW OF REMEDIATION ACTIVITIES

#### 2.1 General

Section 2 summarizes the scope of activities associated with the remediation of soils and drainlines at Station 229. This summary is provided to familiarize the reader with the remediation process and to describe activities that were common to each of the soil and drainline remediation areas. Specific IRM details are provided in Sections 3 and 4.

# 2.2 Remediation Requirements

Various environmental studies have been conducted at the site since 1988. These studies included the performance of phased and targeted investigations to determine the presence and extent of PCBs and other constituents at the site. A summary of the results of these prior investigations is provided in the IRM Work Plan.

The data collected during prior characterization activities were utilized to identify the goals of the IRM at Station 229. The IRM Work Plan describes the basis and approach utilized in the development of these goals. A summary is provided below.

#### 2.2.1 Soils

The soil cleanup goal established in the IRM Work Plan was 25 ppm PCBs. For Station 229, the criteria for determining compliance with the soil cleanup goal for PCBs involved the performance of remediation-related sampling, with the following interpretation of the results: for each remediation area, the post-remediation verification samples results could not exceed 25 ppm PCBs unless it was determined that the excavation could not proceed due to operational or safety concerns (in this case a low permeability cap was to be installed).

#### 2.2.2 Drainlines

An action level of 25 ppm for PCBs in drainlines was also established in the IRM Work Plan. Drainlines containing PCBs above the action level were closed in place via filling with non-shrink grout. The effectiveness of drainline remediation was determined based on field observations by the TGP Chief Inspector, the Engineer's On-Site Representative, and the NYSDEC.

## 2.3 Scope of Remediation Activities

This section summarizes the remediation activities performed by TGP at Station 229. In general, the scope of activities associated with a given remediation component (e.g., soil remediation, drainline remediation, etc.) were consistent for each area subject to remediation. While there were some exceptions to the activities described in this section, these exceptions were relatively limited. Deviations from the general

scope presented in this section, and specific area-by-area remediation details, are provided in Sections 3 and 4 of this IRM Report.

#### 2.3.1 Soil Remediation

The primary component of soil remediation activities involved the excavation and off-site disposal of soils exceeding the cleanup goal. In addition, the IRM Design Plan also included provisions for engineering controls (i.e., a low permeability cap) in areas where excavation was not practicable.

Based on the information presented in the IRM Work Plan, as modified by supplemental data collected during remediation, seven areas were identified for soil remediation due to the presence of PCBs. These remediation areas were as follows:

- Air Receiver Tank Area;
- Pipe Rack Area;
- Scrap Yard Area;
- Compressor Building Area;
- Shop Building Area;
- · Auxiliary Building Area; and
- Drainage Ditch B Area.

All areas subject to remediation were identified based on a review of previous site characterization results, as well as the results of a pre-remediation delineation sampling and analysis program conducted prior to the initiation of on-site activities. The pre-remediation sampling and analysis program utilized both immunoassay and fixed laboratory analyses to confirm/refine the extent of soil to be remediated. In addition, where appropriate, pre-remediation sampling results were also utilized as final verification samples defining the extent of remediation. The procedures utilized for pre-remediation delineation were described in the IRM Work Plan, and are summarized in Section 3.2 of this report.

Soil excavation was performed by two methods depending on site conditions: manual excavation and mechanical excavation. Manual excavation involved the removal of soils utilizing hand tools and was performed adjacent to buildings, gas lines, utilities, foundations, and other operationally sensitive areas. Mechanical excavation involved the use of mechanical equipment and was utilized in areas where manual excavation was not required.

Soils were excavated and placed directly into containers or vehicles to be used for off-site transport and disposal. All vehicles/containers utilized for off-site transport and disposal were lined, tarped, manifested, and transported to the CWM disposal facility in Model City, New York.

Upon completion of excavation, post-remediation verification sampling and analysis was performed. In accordance with the IRM Work Plan, post-remediation sampling and analysis included the collection of samples from the bottom of the excavation, as well as sidewall samples, if necessary. Section 3.2 provides additional information concerning the verification sampling approach. If results

indicated that the cleanup goals had been achieved, the area was backfilled and restored. If an area did not meet the cleanup criteria, additional excavation was performed and the area was resampled. Generally, this iterative process continued until it was determined that each area met the cleanup goals or until excavation could not progress further due to limiting subgrade features. In these areas, a low-permeability cap was installed.

Restoration of the remediated areas included re-establishing the initial contours and appearance of each area. In general, this included the placement of backfill material to within 6 inches of the initial grade. The uppermost six inches were then covered with topsoil if the area was previously vegetated, or crushed stone if the area previously had a gravel cover. Areas receiving topsoil were subsequently raked, fertilized, seeded, and mulched. Disturbed areas that were paved with asphalt or that had side walks were restored to original conditions. Additionally, rip-rap was utilized as backfill for the drainage channel portion of the excavation in the Drainage Ditch B Area to limit potential future erosion. The remainder of the excavation area was backfilled with common backfill and seeded.

#### 2.3.2 Drainline Remediation

The IRM Work Plan identified two drainline systems (C and D, see Figure 1) to be remediated and established a scope of remediation for these two drainline systems. Remedial actions for the drainlines included two remediation components to address the potential presence of PCBs within the drainlines:

<u>Cleaning</u> - removal of accumulated water and sediments from manholes, sumps, or oil/water separators, by either manual or mechanical means.

Grouting - placement of non-shrink grout to fill (to the extent possible) designated drainlines to prevent future use of the pipe as a means of water conveyance and to prevent potential migration of PCBs.

Section 3

BLASLAND, BOUCK & LEE, INC.

# SECTION 3 - SOIL REMEDIATION

#### 3.1 General

This section provides a summary of the soil remediation activities performed at Station 229. This includes a description of the pre-and post-remediation soil sampling approaches, as well as an area-specific summary of the remediation activities undertaken in each soil remediation area.

# 3.2 Pre- and Post-Remediation Sampling

An integral component of the Station 229 soil remediation program was the performance of pre- and post-remediation sampling and analysis. Initial remediation areas were established in the IRM Work Plan based on previous characterization sampling performed during the Remedial Investigation. Therefore, pre-remediation sampling and analysis performed as part of the IRM was utilized to refine the initial remediation areas. Once a remediation area was excavated, post-remediation sampling was performed to verify the completion of remediation or, alternatively, identify additional areas subject to further remediation. Since the horizontal extent of remediation was primarily established based on the pre-remediation sampling, post-excavation sampling was primarily utilized to verify the vertical extent of remediation.

The sampling approaches that were utilized for the pre- and post-remediation sampling programs were described in the IRM Work Plan. The sampling approach varied based on field conditions, site features, previous sampling data, and the estimated extent of excavation. The pre-remediation sampling approach generally consisted of iterative sampling to determine the lateral extent of excavation, with limited sampling at depth to determine the vertical extent of remediation. As necessary, following excavation, pre-remediation sampling was supplemented with post-remediation sampling consisting of samples collected from the base of the excavation at a minimum of one sample per 1,000 square feet of bottom excavated area and a minimum of two sidewall samples for each contiguous excavation area of the same depth. In general, pre-and post-remediation samples were collected and initially analyzed using PCB screening techniques (i.e., EnSys PCB-Risc immunoassay test kits). A minimum of 50 percent of the samples that defined the final excavation areas were sent to RECRA for verification by laboratory analysis in accordance with USEPA SW846 Method 8081.

For these sampling activities, known reference points were established by: 1) relocating previous sample nodes from the Remedial Investigation or 2) establishing a surveyed grid (Pipe Rack and Auxiliary Building areas). To facilitate the mapping of sampling locations, samples were field located relative to the known reference point and the number of feet north, south, east, and/or west of that point. Figure 2 presents a sample location key to assist in locating a sample point on the figures based on the sample location ID presented in the data tables.

### 3.3 Soil Remediation

This section provides a summary of the remediation activities conducted in each of the seven areas covered by the IRM. For each area, this section provides general background information, a summary of preremediation delineation activities, a summary of the scope of remediation, results of verification analyses, and identification of deviations from the IRM Work Plan or IRM Design Plan, as appropriate.

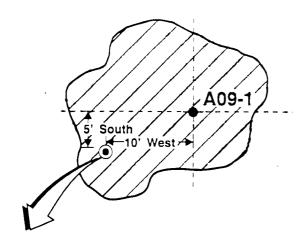
Certain components of the remediation process were common to each remediation area, and are therefore not specifically included in the following detailed descriptions. Initially, site activities consisted of mobilization to the site and the set-up of an office trailer for use by contractor personnel and an office trailer for use by the NYSDEC, TGP, and BBL. Other site preparation activities included placement of a stabilized construction entrance for the soil transportation trucks, set-up of the materials and equipment staging area, and connection of electrical and telephone utilities for the office trailers. In addition, unless otherwise noted in the detailed descriptions, the following activities were performed as necessary prior to remediation activities in each area:

- Establishment of a health and safety Exclusion Zone, Contamination Reduction Zone, and Support Zone;
- Implementation of erosion and sedimentation control measures (e.g., staked hay bales, silt fences, sandbags, etc.);
- Clearing and grubbing of vegetation to access soils;
- Placement of construction safety fencing around the excavation areas;
- Establishment of Remediation Support Areas to be utilized for direct soil loading; and
- Liquid handling procedures for excavations including the collection and containerization (in a 500-gallon polyethylene tank) of water which accumulated in the excavations. Containerized water was transported and disposed off-site at the CWM facility in Model City, New York.

It should be noted that the use of sandbags for erosion control represents a modification from the IRM Design Plan. Sandbags were utilized as erosion control measures in areas where the presence of sidewalks or pavement prevented the excavation of trenches for the embedment of haybales or silt fences, and along the fenceline in the Pipe Rack area where access was limited. This modification was implemented in consultation with the NYSDEC on-site representative.

Another modification to the IRM Design Plan involved erosion control in the Drainage Ditch B area. The IRM Design Plan provided for the use of rock check-dams to reduce erosion in drainage channels by restricting the velocity of flow. However, due to the anticipated short duration of excavation activities in Drainage Ditch B, the Contractor bypass pumped the water around the excavation area. This activity was performed in consultation with the NYSDEC on-site representative and consisted of: 1) placing an impermeable membrane (supported by sandbags) on the upgradient side of the excavation to pool any water flowing in the drainage ditch; 2) placing a submersible pump into the pooled water; and 3) operating the pump as required to bypass water to the ditch downgradient of the excavation area. Additionally, a silt curtain was placed in the ditch at the pump discharge location to dissipate the pump discharge energy and limit potential erosion.

The remainder of this section summarizes the specific activities performed in each of the seven remediation areas. To facilitate review of the remediation activities performed in each area, tabbed dividers have been inserted in this document to identify each remediation area. Each tabbed section includes the text, tables and figures documenting the remediation activities in that area.



### RECORD DRAWINGS

To the best of our knowledge, information and belief, those record drawings substantially represent the project as constructed.

BLASLAND, BOUCK & LEE, INC. -By 21/1/8/2 2/10/96

North

## Example:

Location of Previous Ecology & Environment,

A09-1 - 10W-5S

Inc. Sample Collected as Part of the Remedial Investigation (As Surveyed by Blasland. Bouck & Lee, Inc.) -

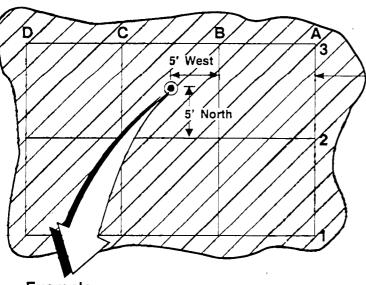
Specific Sample Location in Feet and Direction (N, S, E, W) From the Previous Remedial Investigation Sample (As Field Located by Blasland, Bouck & Lee, Inc.)-

#### Legend/Notes:

// = Area Subject to Soil Removal and/or Sampling and Analysis

= Previous Ecology & Environment, Inc. Sample Location as Surveyed by Blasland, Bouck & Lee, Inc.

( ) = Sample Location (As Field Located by Blasland, Bouck & Lee, Inc.)



Example:

**B2 - 5W-5N** 

Grid Point (As Surveyed by Blasland, Bouck & Lee, Inc.)

Specific Sample Location in Feet and Direction (N, S, E, W) From Grid Point

#### Legend/Notes:

Y// = Area Subject to Soil Removal and/or Sampling and Analysis

(a) = Sample Location (As Field Located by Blasland, Bouck & Lee, Inc.)

TENNESSEE GAS PIPELINE COMPANY HOUSTON, TEXAS COMPRESSOR STATION 229 EDEN, NEW YORK

0

Approximate Scale: 1" = 10'

SAMPLE LOCATION KEY

BLASLAND, BOUCK & LEE, INC. engineers & scientists

**FIGURE** 2

10'

10'

Surveyed Grid

1/96 D54 PMC 51302001/51302g04.CDR

# Air Receiver Tank (ART) Area

BLASLAND, BOUCK & LEE, INC. engineers & scientists

#### 3.3.1 Air Receiver Tank (ART) Area

The ART area is located on the west side of the Auxiliary Building. The results of prior characterization sampling in this area indicated the presence of PCBs at levels ranging from 1.3 ppm to 13,000 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in three sample locations, one off the northeast corner of the ARTs and two along the west side of the foundation supporting the ARTs (Attachment 1).

#### 3.3.1.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of 10 samples to confirm the anticipated extent of excavation presented in the IRM Work Plan. Four of these samples indicated PCB levels above 25 ppm. Sampling to verify the proposed depth of excavation resulted in the collection of 34 additional samples. Table 1 provides a summary of the results of pre-remediation sampling in this area. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 3.

### 3.3.1.2 Remediation and Verification

Remediation in the ART area initially consisted of excavation of soils in the areas estimated based on the results of pre-remediation sampling and analysis. Due to the proximity of the ARTs and other sensitive operations areas, excavation was primarily performed by manual means.

Following excavation, verification sampling and analysis was performed. Verification sampling initially included the collection of nine samples. Six of the samples indicated PCB levels less than the cleanup goal. However, three of the samples indicated a PCB level greater than 25 ppm and additional excavation and sampling activities were conducted until verification sampling demonstrated PCBs less than the cleanup criteria or until it was determined that the excavation could not proceed due to subsurface limiting features. Forty-three additional post-remediation samples were collected in this area. Table 1 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 3.

Because of subsurface limitations, a low-permeability cap was installed over the excavation area west of the ARTs. As shown on Figure 3, the final sidewall samples in this area were less than 25 ppm, however, the bottom samples were greater than 25 ppm (78 and 110 ppm). However, the bottom of this excavation area was at bedrock and at the bottom of the adjacent ART support pier, and it was not possible to excavate additional material. Accordingly, with the DEC's approval and in accordance with the IRM Design Plan, a low permeability cap was placed over the entire area on the west side of the ARTs (Figure 3).

The depth of excavation in the ART area ranged from 6 to 60 inches. The total volume of soil excavated from this area is estimated to be approximately 93 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
PRE-REMEDIATION SAME	LES						
229-AR01-4DS-045-01	B07-1	0-6	04/27/95	> 25	78 E	ND (110)	
229-AR01-4DS-082-01	B07-1-10N	0-6	05/09/95	> 25	36		
229-AR01-4DS-112-01	B07-1-10N	0-6	05/09/95		38		Field duplicate of 229-AR01-4DS-082-01
229-AR01-4DS-147-01	B07-1-10N,5E	0 - 6	05/12/95		12		Utilized as a final verification sample
229-AR01-4DS-148-01	B07-1-10N,5W	0 - 6	05/12/95		5.8		Utilized as a final verification sample
229-AR01-4DS-122-01	B07-1-15N	0 - 6	05/11/95	> 25			
229-AR01-4DS-122-01D	B07-1-15N	0 - 6	05/11/95	> 25			Field duplicate of 229-AR01-4DS-122-01
229-AR01-4DS-131-01	B07-1-20N	0 - 6	05/11/95	< 25		3.6 J	Utilized as a final verification sample
229-AR01-4DS-172-01	B07-1-20N,5E	0 - 6	07/20/95			4.9	Utilized as a final verification sample
229-AR01-4DS-168-01	B07-1-20N,5W	0 - 6	07/20/95			3.2	Utilized as a final verification sample
229-AR01-4DS-168-02	B07-1-20N,5W	6 - 24	07/20/95			ND (0.066)	Utilized as a final verification sample
229-AR01-4DS-198-01	B07-1-5N,10E	0 - 6	07/25/95			8.6	Utilized as a final verification sample
229-AR01-4DS-169-01	B07-1-5N,5E	0-6	07/20/95			140	Utilized as a final verification sample
229-AR01-4DS-169-02	B07-1-5N,5E	6 - 24	07/20/95			2.0	Utilized as a final verification sample
229-AR01-4DS-173-01	B07-1-5N,5W	0 - 6	07/20/95			10	Utilized as a final verification sample
229-AR01-4DS-046-01	B07-2	0 - 6	04/27/95	> 25	200 E	740	
229-AR01-4DS-083-01	B07-2-5W	0 - 6	05/09/95	< 25		2.6 J	Utilized as a final verification sample
229-AR01-4DS-083-02	B07-2-5W	6 - 24	05/10/95	< 25		0.13 J	Utilized as a final verification sample
229-AR01-4DS-047-01	B07-3	0 - 6	04/27/95	> 25	170 E	500	
229- <b>AR01</b> -4DS <b>-084-0</b> 1	B07 <b>-3-5S</b>	0-6	<b>05/09/</b> 95	<b>&lt; 2</b> 5		2. <b>1 J</b>	Utilized as a final verification sample
229-AR01-4DS-084-02	B07-3-5S	6 - 24	05/10/95	< 25		0.052 J	Utilized as a final verification sample
229-AR01-4DS-085-01	B07-4	0 - 6	05/09/95	> 25	67 E		

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	tmmuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AR01-4DS-123-01	B07-4-5E	0-6	05/11/95	< 25			Utilized as a final verification sample
229-AR01-4DS-174-01	B07-4-5E,5N	0 - 6	07/20/95			0.38	Utilized as a final verification sample
229-AR01-4DS-171-01	B07-4-5E,5S	0-6	07/20/95			1.8	Utilized as a final verification sample
229-AR01-4DS-171-02	B07-4-5E,5S	6 - 24	07/20/95			0.074	Utilized as a final verification sample
229-AR01-4DS-170-01	B07-4-5N	0-6	07/20/95			0.74	Utilized as a final verification sample
229-AR01-4DS-170-02	B07-4-5N	6 - 24	07/20/95			2.8	Utilized as a final verification sample
229-AR01-4DS-199-01	B07-4-5S	0-6	07/25/95			1.2	
229-AR02-4D5-048-01	B16-1	0-6	04/27/95	> 25	280 E	2,900	-
229-AR02-4DS-087-01	B16-1-5N	0 - 6	05/09/95	< 25		6.4	Utilized as a final verification sample
229-AR02-4DS-130-01	B16-1-5N	0-6	05/09/95			7.0	Utilized as a final verification sample, Field duplicate of 229-AR02-4DS-087-01
229-AR02-4DS-087-02	B16-1-5N	6 - 18	05/10/95	< 25		2.1 J	Utilized as a final verification sample
229-AR02-4DS-113-01	B16-1-5N	6 - 18	05/10/95			2.0 J	Utilized as a final verification sample, Field duplicate of 229-AR02-4DS-087-02
229-AR02-4DS-049-01	B16-2	0-6	04/27/95	< 25	13	24	223 711102 400-001-02
229-AR02-4DS-049-02	B16-2	6 - 18	05/09/95	< 25	ND (1.0)	0.38 J	
229-AR02-4DS-050-01	B16-3	0-6	04/27/95	> 25	70 E	59	
229-AR02-4DS-088-01	B16-3-5S	0-6	05/09/95	< 25			
2 <b>29-AR02-4DS-</b> 086-01	B16-4	0-6	05/09/95	< 25	-		Utilized as a final verification sample
229-AR03-4DS-051-01	B19-1	0-6	04/27/95	< 25	1.4	1.2	20 E mile Company
229-AR03-4DS-051-02	B19-1	6 - 18	05/09/95	> 25	160 E	190	
229-AR03-4DS-143-01	B19-1-5N	0-6	05/12/95	-	3.9		
229-AR03-4DS-143-02	B19-1 <b>-5N</b>	6 - 12	<b>05/12/9</b> 5		Ì	0.96	·
229-AR03-4DS-052-01	B19-2	0 - 6	04/27/95	< 25	0.35 J	0.51	
229-AR03-4DS-053-01	B19-3	0 - 6	04/27/95	< 25	0.50 J	0.80	Utilized as a final verification sample

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AR03-4DS-054-01	B19-4	0 - 6	04/27/95	< 25	ND (1.0)	0.043	
229-AR03-4DS-054-02	B19-4	6 - 18	05/09/95	< 25	ND (1.0)	0.60	
229-AR03-4DS-054-02D	B19-4	6 - 18	05/09/95	< 25			Immunoassay duplicate of 229-AR03-4DS-054-02
POST-REMEDIATION SAM	PLE\$						1
229-AR01-5DS-019-01	B07-1-10N	6 - 12	07/31/95			0.20	Utilized as a final verification sample
229-AR01-5DS-020-01	B07-1-6N,7E	6 - 12	07/31/95			1.5	Utilized as a final verification sample
229-AR01-5DS-014-01	B07-2	24 - 30	07/31/95			1.9	Utilized as a final verification sample
229-AR01-5DS-015-01	B07-3	24 - 30	07/31/95			92	
229-AR01-5DS-015-02	B07-3	30 - 36	08/02/95	> 25			
229-AR01-5DS-015-03	B07-3	36 - 42	08/10/95	ı		25	Utilized as a final verification sample
229-AR01-5DS-015-04	B07-3	42 - 48	08/10/95	< 25			Utilized as a final verification sample
229-AR01-5DS-017-01	B07-3-1.5E	6 - 24	07/31/95			270	
229-AR01-5DS-046-01	B07-3-5S	24 - 36	08/10/95	< 25			Utilized as a final verification sample
229-AR01-5DS-016-01	B07-3.5N	6 - 24	07/31/95			7.2	Utilized as a final verification sample
229-AR01-5DS-021-01	B07-4	6 - 12	07/31/95			8.0	Utilized as a final verification sample
229-AR01-5DS-023-01	B07-4-11.5S,3.5W	0 - 6	08/02/95	< 25			Utilized as a final verification sample
229-AR01-5DS-023-02	B07-4-11.5S,3.5W	6 - 24	08/02/95	< 25			Utilized as a final verification sample
229-AR01-5DS-023-03	B07-4-11.5S,3.5W	24 - 30	08/02/95	< 25			Utilized as a final verification sample
229-AR01-5DS-023-04	B07-4-11.5S,3.5W	30 - 36	08/10/95	< 25			Utilized as a final verification sample
229 <b>-AR01</b> -5DS <b>-045-0</b> 1	<b>B</b> 07-4-2W,7\$	6 - 12	<b>08/10</b> /95			7.2	Utilized as a final verification sample
229-AR01-5DS-022-01	B07-4-4.5S,3.5W	0 - 6	08/02/95	> 25			Utilized as a final verification sample
229-AR01-5DS-022-04	B07-4-4.5S,3.5W	6 - 12	08/03/95	< 25		_	Utilized as a final verification sample

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results . (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AR01-5DS-022-02	B07-4-4.5\$,3.5W	6 - 24	08/02/95	< 25			Utilized as a final verification sample
229-AR01-5DS-022-03	B07-4-4.5S,3.5W	24 - 30	08/02/95	< 25	•	1	Utilized as a final verification sample
229-AR01-5DS-025-01	B07-4-5\$,1.5E	0 - 6	08/03/95	< 25			Utilized as a final verification sample
229-AR02-5DS-107-01	B16-1-4N	24 - 36	09/01/95			1.6	Utilized as a final verification sample
229-AR02-5DS-107-02	B16-1-4N	36 - 48	09/01/95			4.1 J	Utilized as a final verification sample
229-AR02-5DS-112-01-FD	B16-1-4N	36 - 48	09/01/95		ı	7.4 J	Utilized as a final verification sample, Field duplicate of 229-AR02-5DS-107-02
229-AR02-5DS-107-03	B16-1-4N	48 - 60	09/01/95			21	Utilized as a final verification sample
229-AR02-5DS-012-02	B19-1	24 - 30	08/02/95	> 25			
229-AR02-5DS-012-03	B19-1	30 - 36	08/09/95			110	
229-AR02-5DS-012-04	B19-1	36 - 42	08/12/95	< 25			
229-AR02-5DS-012-05	B19-1	60 - 66	08/21/95			110	Utilized as a final verification sample
229-AR02-5DS-090-01	B19-1-11N,1.5E	36 - 48	08/29/95			3,000	
229-AR02-5DS-090-02	B19-1-11N,1.5E	48 - 60	08/29/95	ĺ		460	
229-AR02-5DS-050-01	B19-1-3.5N	42 - 48	08/17/95			1,600	
229-AR02-5DS-050-02	B19-1-3.5N	60 - 66	08/21/95			78	Utilized as a final verification sample
229-AR02-5DS-053-01	B19-1-3.5N,2.5W	12 - 24	08/19/95			5.3	
229-AR02-5D\$-053-02	B19-1-3.5N,2.5W	24 - 36	08/19/95			3.8	
229-AR02-5DS-053-03	B19-1-3.5N,2.5W	36 - 42	08/21/95			50	·
229-AR02-5DS-054-01-FD	B19-1-3.5N,2.5W	36 - 42	08/21/95			38	Field duplicate of 229-AR02-5DS-053-03
229-AR02-5DS-053-04	B19-1-3.5N,2.5W	42 - 48	08/21/95			87	
229- <b>AR02-</b> 5DS- <b>053-0</b> 5	B19-1-3.5N,2.5W	48 - 60	08/21/95			3. <b>3</b>	
229-AR02-5DS-089-01	B19-1-3.5N,6W	36 - 48	08/29/95			0.20	Utilized as a final verification sample
229-AR02-5DS-089-02	B19-1-3.5N,6W	48 - 60	08/29/95			0.92	Utilized as a final verification sample

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

## PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - AIR RECEIVER TANK REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AR02-5DS-008-01	B19-1-3.5S	18 - 24	07/29/95	· · · · · · · · · · · · · · · · · · ·		2.5	
229-AR02-5DS-008-02	B19-1-3.5S	24 - 30	08/23/95	> 25			
229-AR02-5DS-008-03	B19-1-3.5S	36 - 42	08/23/95	> 25			
229-AR02-5DS-008-04	B19-1-3.5S	42 - 48	08/23/95	> 25		1	· ·
229-AR02-5DS-008-05	B19-1-3.5S	48 - 60	08/23/95	> 25			
229-AR02-5DS-091-01	B19-1-5S,1.5E	24 - 36	08/29/95			1,300	
229-AR02-5DS-091-02	B19-1-5S,1.5E	36 - 48	08/29/95			210	
229-AR02-5DS-091-03	B19-1-5S,1.5E	48 - 60	08/29/95			310	
229-AR02-5DS-009-01	B19-1-8.5N	18 - 24	07/29/95			2.7	
229-AR02-5DS-009-02	B19-1-8.5N	24 - 36	08/19/95			1.1	
229-AR02-5DS-009-03	B19-1-8.5N	36 - 42	08/19/95			1.3	
229-AR02-5DS-009-04	B19-1-8.5N	42 - 48	08/21/95			36	
229-AR02-5DS-009-05	B19-1-8.5N	48 ~ 60	08/21/95			85	
229-AR02-5DS-012-01	B19-2	18 - 24	07/31/95			61	
229-AR02-5DS-108-01	B20-0.5N	24 - 36	09/01/95			ND (0.066)	Utilized as a final verification sample
229-AR02-5DS-108-02	B20-0.5N	36 - 48	09/01/95			1.2	Utilized as a final verification sample
2 <b>29-AR02-5DS-11</b> 3-01-FD	B20-0.5N	36 - 48	09/01/95			1.3	Utilized as a final verification sample, Field duplicate of 229-AR02-5DS-108-02
229-AR02-5DS-108-03	B20-0.5N	48 - 60	09/01/95				Utilized as a final verification sample

#### Notes:

#### J = Estimated value

E = Sample concentration above maximum calibration limit, actual concentration may be higher

ND (0.066) = Not Detected (method detection limit is shown in parentheses)

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - AIR RECEIVER TANK REMEDIATION AREA

#### Notes (cont.):

Field Duplicate = QA/QC sample used as an indicator of the precision relative to the sample matrix

Immunoassay Duplicate = QA/QC sample used as an indicator of the precision relative to the analysis procedure

- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines.
- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location

    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field;
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits;
  - Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
  - Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
  - Laboratory Method 8081 samples that were used as final verification samples were validated.

# Pipe Rack Area

BLASLAND, BOUCK & LEE, INC. engineers & scientists

### 3.3.2 Pipe Rack Area

The Pipe Rack area is located to the west of the Compressor Building. The results of prior characterization sampling in this area indicated the presence of PCBs at levels ranging from 1.3 ppm to 55 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in one sample location adjacent to the fenceline (Attachment 1) and the presence of PCBs at elevated levels in two composite samples taken from within the Pipe Rack area, east of the fenceline.

#### 3.3.2.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of 25 samples from a 50 ft by 50 ft grid spacing within the Pipe Rack area to further characterize the area and five samples from the adjacent fenceline area to confirm the anticipated extent of excavation presented in the IRM Work Plan. One of these samples indicated PCB levels above 25 ppm and additional samples were collected to further characterize both the fenceline area and the Pipe Rack area, east of the fenceline. This resulted in the collection of 32 additional samples and the identification of three areas to be remediated. Table 2 provides a summary of the results of pre-remediation sampling in this area. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 4.

#### 3.3.2.2 Remediation and Verification

Remediation in the Pipe Rack area consisted of excavation of soils in the three identified areas to the extent estimated based on the results of pre-remediation sampling and analysis. Since there were no sensitive operations areas, excavation was performed by mechanical means.

Following excavation, verification sampling and analysis was performed. Verification sampling included the collection of five samples. Samples indicated levels less than the cleanup goal and additional excavation and sampling activities were not required. Table 2 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 4.

The depth of excavation in the Pipe Rack area was 6 inches for each of the three remediation areas. The total volume of soil excavated from this area is estimated to be approximately 34 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
PRE-REMEDIATION SAN	MPLES						
229-PR-4DS-090-01	A5	0 - 6	05/09/95	< 25	3.5	1.5 J	Utilized as a final verification sample
229-PR-4DS-007-01	В3	0 - 6	04/26/95	< 25	9.3	7.9	Utilized as a final verification sample
229-PR-4DS-018-01	B4	0 - 6	04/26/95	< 25	9.7	8.4	Utilized as a final verification sample
229-PR-4DS-019-01	<b>B</b> 5	0-6	04/26/95	> 25	35	31	
229-PR-4DS-019-02	B5	6 - 12	05/10/95	< 25	Ì		Utilized as a final verification sample
229-PR-4DS-106-01	B5-25E	0-6	05/10/95	< 25			Utilized as a final verification sample
229-PR-4DS-104-01	B5-25N	0-6	05/10/95	> 25	14	24 J	Utilized as a final verification sample
229-PR-4DS-104-02	B5-25N	6 - 12	05/10/95	< 25			Utilized as a final verification sample
229-PR-4DS-105-01	B5-25S	0-6	05/10/95	< 25		<del>                                     </del>	Utilized as a final verification sample
229-PR-4DS-105-02	B5-25S	6 - 12	05/10/95	< 25			Utilized as a final verification sample
229-PR-4DS-107-01	B5-25W	0-6	05/10/95	< 25			Utilized as a final verification sample
229-PR-4DS-089-01	B6	0-6	05/09/95	< 25			Utilized as a final verification sample
229-PR-4DS-006-01	C3	0-6	04/26/95	> 25	10	8,9	Utilized as a final verification sample
229-PR-4DS-017-01	C4	0-6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-020-01	C5	0 - 6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-008-01	D3	0 - 6	04/26/95	< 25	2.3	2.1	Utilized as a final verification sample
229-PR-4DS-016-01	D4	0-6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-021-01	D5	0-6	04/26/95	< 25	1.6	5.6	Utilized as a final verification sample
229-PR-4DS-009-01	E3	0 - 6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-009-01D	E3	0-6	04/26/95	< 25			Utilized as a final verification sample, Immunoassay dup 229-PR-4DS-009-01
229-PR-4DS-022-01	E5	0 - 6	04/26/95	< 25	0.40 J	ND (1.8)	Utilized as a final verification sample
229-PR-4DS-010-01	F3	0-6	04/26/95	< 25	1.3	ND (1.2)	Utilized as a final verification sample

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 6081 Results (ppm)	Comments
229-PR-4DS-160-01	F3-10E	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-158-01	F3-10N	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-159-01	F3-10S	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-161-01	F3-10W	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-015-01	F4	0 - 6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-023-01	F5	0 - 6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-156-01	F5-10E	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-154-01	F5-10N	0-6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-155-01	F5-10S	0-6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-157-01	F5-10W	0 - 6	05/12/95	> 25	1000000		· · · · · · · · · · · · · · · · · · ·
229-PR-4DS-011-01	G3	0 - 6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-014-01	G4	0 - 6	04/26/95	< 25	ND (1.0)	ND (0.066)	Utilized as a final verification sample
229-PR-4DS-024-01	G5	0 - 6	04/26/95	< 25			Utilized as a final verification sample
229-PR-4DS-012-01	Н3	0 - 6	04/26/95	< 25	0.44 J	0.20	Utilized as a final verification sample
229-PR-4DS-164-01	H3-10E	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-162-01	H3-10N	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-163-01	H3-10\$	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-165-01	H3-10W	0 - 6	05/12/95	< 25		······	Utilized as a final verification sample
229-PR-4DS-013-01	H4	0 - 6	04/26/95	< 25	2.5	ND (1.9)	Utilized as a final verification sample
229-PR-4DS-025-01	H5	0 - 6	04/26/95	< 25	2.7	2.4	Utilized as a final verification sample
229-PR-4DS-152-01	H5-10E	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR-4DS-150-01	H5-10N	0-6	05/12/95	< 25		•	Utilized as a final verification sample
229-PR-4DS-151-01	H5-10S	0 - 6	05/12/95	< 25			Utilized as a final verification sample

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-PR-4DS-151-01D	H5-10S	0 - 6	05/12/95	< 25			Utilized as a final verification sample, Immunoassay dup 229-PR-4DS-151-01
229-PR-4DS-153-01	H5-10W	0 - 6	05/12/95	< 25			Utilized as a final verification sample
229-PR02-4DS-194-01	F5	0 - 6	07/21/95			3.0	Utilized as a final verification sample
229-PR02-4DS-192-01	F5-10N,20W	0 - 6	07/21/95			0.56	Utilized as a final verification sample
229-PR02-4DS-193-01	F5-10S,20W	0-6	07/21/95			0.46	Utilized as a final verification sample
229-FL-4DS-058-01	E15-1	0 - 6	04/28/95	< 25		1.6	Utilized as a final verification sample
229-FL-4DS-059-01	E15-2	0 - 6	04/28/95	< 25			Utilized as a final verification sample
229-FL-4DS-059-01D	E15-2	0-6	04/28/95	< 25		İ	Utilized as a final verification sample
229-FL-4DS-060-01	E15-3	0-6	04/28/95	< 25			Utilized as a final verification sample
229-FL-4DS-061-01	E15-4	0-6	04/28/95	< 25		1	Utilized as a final verification sample
229-FL-4DS-067-01	E15-5	0 - 6	04/28/95	< 25		0.23 J	Utilized as a final verification sample
229-FL-4DS-101-01	E15-6	0 - 6	05/10/95	> 25			
229-FL-4DS-101-02	E15-6	6 - 12	05/11/95	< 25		9.3 J	Utilized as a final verification sample
229-FL-4DS-125-01	E15-6-10W	0-6	05/11/95	< 25		ND (0.066) J	Utilized as a final verification sample
229-FL-4DS-124-01	E15-6-5W	0 - 6	05/11/95	> 25			Utilized as a final verification sample
POST-REMEDIATION SAM	PLES						
229-PR01-5DS-038-01	E15-6-5W	6 - 12	08/08/95			0.44	Utilized as a final verification sample
229-PR02-5D\$-026-01	F5-10W	6 - 12	08/03/95			0.056	Utilized as a final verification sample
229-PR03-5D\$-027-01	<b>B</b> 5	6 - 12	08/04/95			0.34 J	Utilized as a final verification sample
229-PR03-5DS-028-01-FD	B5	6 - 12	08/04/95			0.17 J	Utilized as a final verification sample, Field duplicate of 229-PR03-5DS-027-01

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - PIPE RACK REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-PR03-5DS-029-01	B5-20N	6 - 12	08/04/95			0.10 J	Utilized as a final verification sample
229-PR03-5DS-030-01-FD	B5-20N	6 - 12	08/04/95			0.071 J	Utilized as a final verification sample, Field duplicate of 229-PR03-5DS-029-01
229-PR03-5DS-031-01	B5-20S	6 - 12	08/04/95	< 25			Utilized as a final verification sample

#### Notes;

J = Estimated value

ND (0.066) = Not Detected (method detection limit is shown in parentheses)

Field Duplicate = QA/QC sample used as an indicator of the precision relative to the sample matrix

Immunoassay Duplicate = QA/QC sample used as an indicator of the precision relative to the analysis procedure

- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines.
- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location

    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field;
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits;
  - Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
  - Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
  - Laboratory Method 8081 samples that were used as final verification samples were validated.

Scrap Yard Area

BLASLAND, BOUCK & LEE, INC. engineers & scientists

#### 3.3.3 Scrap Yard Area

The Scrap Yard area is located to the south of the Pipe Rack area. The results of prior characterization sampling in this area indicated the presence of PCBs at levels ranging from 2.9 ppm to 32 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in one sample located approximately in the center of the roadway turn-around (Attachment 1).

#### 3.3.3.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of four samples to confirm the anticipated extent of excavation presented in the IRM Work Plan. None of these samples indicated PCB levels above 25 ppm. The four initial samples were centered around a previous Remedial Investigation sample location and when field relocated as part of the IRM these samples were collected from the four corners of a concrete pad located within the Scrap Yard area. However, based on field observations and discussions with station personnel, it was determined that the concrete pad was present during the Remedial Investigation sampling activities and that prior sampling had not been conducted beneath the pad. This suggested that the initial sample locations were not correctly relocated. As a result, five additional samples were collected in the open area to the south of the concrete pad to further characterize the area. One of these samples indicated PCB levels above 25 ppm. Table 3 provides a summary of the results of pre-remediation sampling in this area. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 5.

#### 3.3.3.2 Remediation and Verification

Remediation in the Scrap Yard area consisted of excavation of soils to the extent estimated based on the results of pre-remediation sampling and analysis. Since there were no sensitive operations areas, excavation was performed by mechanical means.

Following excavation, verification sampling and analysis was performed. Verification sampling included the collection of two samples. Both verification samples indicated PCB levels less than the cleanup goal and additional excavation and sampling activities were not required. Table 3 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 5.

The depth of excavation in the Scrap Yard area was 6 inches. The total volume of soil excavated from this area is estimated to be approximately 12 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

## PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - SCRAP YARD REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
PRE-REMEDIATION SAME	PLES		_				
229-SY-4DS-026-01	SYG18-1	0 - 6	04/26/95	< 25	5.4	3.8	Utilized as a final verification sample
229-SY-4DS-027-01	SYG18-2	0 - 6	04/26/95	< 25	19	20	Utilized as a final verification sample
229-SY-4DS-028-01	SYG18-3	0 - 6	04/26/95	< 25	13	11	Utilized as a final verification sample
229-SY-4DS-102-01	SYG18-3-10S	0 - 6	05/10/95	< 25			Utilized as a final verification sample
229-SY-4DS-029-01	SYG18-4	0 - 6	04/26/95	< 25	8.8	10	Utilized as a final verification sample
229-SY-4DS-103-01	SYG18-4-10S	0-6	05/10/95	< 25			Utilized as a final verification sample
229-SY-4DS-144-01	SYG18-5	0-6	05/12/95		68 E		·
229-SY01-4DS-187-01	SYG-18-3-20S	0-5	07/21/95			1.6	Utilized as a final verification sample
229-SY01-4DS-188-01	SYG-18-4-20S	0 - 6	07/21/95			0.82	Utilized as a final verification sample
POST-REMEDIATION SAM	IPLES						
229-SY01-5DS-035-01	SYG18-5	6 - 12	08/07/95			0.13	Utilized as a final verification sample
229-SY01-5DS-036-01	SYG18-5-10N	6 - 12	08/07/95			3.1	Utilized as a final verification sample

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

#### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - SCRAP YARD REMEDIATION AREA

#### Notes:

- E = Sample concentration above maximum calibration limit, actual concentration may be higher
- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines.
- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location

    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field;
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits;
  - Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
  - Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
  - Laboratory Method 8081 samples that were used as final verification samples were validated.

# Compressor Building Area

BLASLAND, BOUCK & LEE, INC. engineers & scientists

#### 3.3.4 Compressor Building Area

The Compressor Building is located to the southwest of the ART area. The results of prior characterization sampling in this area indicated the presence of PCBs at levels ranging from 2.7 ppm to 2,800 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in two sample locations, one off the northwest corner of the Compressor Building and one off the southeast corner of the Compressor Building (Attachment 1).

#### 3.3.4.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of eight samples (five from the northwest corner and three from the southeast corner) to confirm the anticipated extent of excavation presented in the IRM Work Plan. None of these samples indicated PCB levels above 25 ppm. Since the exact location of the prior sample off the northwest corner of the Compressor Building was not certain, four additional samples were collected to further characterize the area. Two of these samples indicated PCB levels above 25 ppm. Table 4 provides a summary of the results of pre-remediation sampling in these areas. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figures 6 and 7.

#### 3.3.4.2 Remediation and Verification

Remediation in the two Compressor Building areas consisted of excavation of soils to the extent estimated based on the results of pre-remediation sampling and analysis. Due to the proximity of the building and other physical obstacles, excavation was performed by manual means for the area off the southeast corner of the building. Since there were no sensitive operations areas, excavation was performed by mechanical means for the area off the northwest corner of the building.

Following excavation, verification sampling and analysis was performed. Verification sampling included the collection of three samples. All of the samples indicated PCB levels less than the cleanup goal and additional excavation and sampling activities were not required. Table 4 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figures 6 and 7.

The depth of excavation in the Compressor Building area was 6 inches for the remediation area off the northwest corner of the building and 18 inches for the remediation area off the southeast corner of the building. The total volume of soil excavated from the these areas is estimated to be approximately 18 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	lmmuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
PRE-REMEDIATION SAME	PLES						
229-CB01-4DS-001-01	C08-1	0 - 6	04/26/95	< 25	ND (1.0)	0.054	Utilized as a final verification sample
229-CB01-4DS-002-01	C08-2	0 - 6	04/26/95	< 25	ND (1.0)	0.056	Utilized as a final verification sample
229-CB01-4DS-003-01	C08-3	0 - 6	04/26/95	< 25	0.32 J	0.40	Utilized as a final verification sample
229-CB01-4DS-004-01	C08-4	0-6	04/26/95	< 25	ND (1.0)	ND (0.066)	Utilized as a final verification sample
229-CB01-4DS-005-01	C08-5	0 - 6	04/26/95	> 25	2.1	3.2	Utilized as a final verification sample
229-CB01-4DS-092-01	C08-5-10E	0 - 6	05/09/95	> 25			
229-CB01-4DS-091-01	C08-5-10N	0-6	05/09/95	< 25			Utilized as a final verification sample
229-CB01-4DS-093-01	C08-5-10S	0 - 6	05/09/95	> 25			
229-CB01-4DS-094-01	C08-5-10W	0 - 6	05/09/95	< 25			Utilized as a final verification sample
229-CB02-4DS-055-01	D15-1	0 - 6	04/28/95	< 25		0.050	Utilized as a final verification sample
229-CB02-4DS-055-02	D15-1	6 - 18	05/10/95	< 25		ND (0.066) J	Utilized as a final verification sample
229-CB02-4DS-056-01	D15-2	0-6	04/28/95	< 25		0.32	Utilized as a final verification sample
229-CB02-4DS-056-02	D15-2	6 - 18	05/10/95	< 25		0.91 J	Utilized as a final verification sample
229-CB02-4DS-197-01	D15-2-5N	0 - 6	07/21/95			5.3	Utilized as a final verification sample
229-CB02-4DS-057-01	D15-3	0-6	04/28/95	< 25			Utilized as a final verification sample
POST-REMEDIATION SAM	PLES						
229-CB01-5DS-039-01	C08-5-10E	6 - 12	08/08/95			0.13 J	Utilized as a final verification sample
229-CB01-5DS-041-01-FD	C08-5-10E	6 - 12	08/08/95			0.23 J	Utilized as a final verification sample, Field duplicate of 229-CB01-5DS-039-01
229-CB01-5DS-040-01	C08-5-10S	6 - 12	08/08/95			0.27	Utilized as a final verification sample
229-CB02-5DS-048-01	D15	18 - 24	08/10/95			6.7	Utilized as a final verification sample

#### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - COMPRESSOR BUILDING REMEDIATION AREA

#### Notes:

J = Estimated value

ND (0.066) = Not Detected (method detection limit is shown in parentheses)

Field Duplicate = QA/QC sample used as an indicator of the precision relative to the sample matrix

Immunoassay Duplicate = QA/QC sample used as an indicator of the precision relative to the analysis procedure

- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines.
- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location
    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field:
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits;
  - Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
  - Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
  - Laboratory Method 8081 samples that were used as final verification samples were validated.

# Shop Building Area

BLASLAND, BOUCK & LEE, INC. engineers & scientists

#### 3.3.5 Shop Building Area

The Shop Building area is located to the north of the ART area. The results of prior soil characterization sampling in this area indicated the presence of PCBs at levels ranging from 36.9 ppm to 640 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in two sample locations off the northwest corner of the Shop Building (Attachment 1).

#### 3.3.5.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of 20 samples to confirm the anticipated extent of excavation presented in the IRM Work Plan. Three of these samples indicated PCB levels above 25 ppm. This combined with sampling to verify the proposed depth of excavation, resulted in the collection of six additional samples. Table 5 provides a summary of the results of pre-remediation sampling in this area. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 8.

#### 3.3.5.2 Remediation and Verification

Remediation in the Shop Building area initially consisted of excavation of soils to the extent estimated based on the results of pre-remediation sampling and analysis. Since there were no sensitive operations areas, excavation was performed by mechanical means.

Initially excavation was performed to the anticipated extent of remediation; however, discolored soil was observed and excavation was continued until discolored soil was no longer observed and then verification sampling and analysis were then performed. Verification sampling included the collection of six samples. These samples indicated PCB levels less than the cleanup goal. Table 5 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 8.

The depth of excavation in the Shop Building area was 84 inches. The total volume of soil excavated from this area is estimated to be approximately 42 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
PRE-REMEDIATION SAN	IPLES						
229-SB-4DS-068-01	SB26-1	0 - 12	05/01 <b>/9</b> 5	> 25	26		
229-SB-4DS-068-02	SB26-1	12 - 24	05/01/95	> 25	12		
229-SB-4DS-068-03	SB26-1	24 - 36	05/01/95	> 25	16		
229-SB-4DS-095-03	\$B26-1	24 - 36	05/01/95		17		Field duplicate of 229-SB-4DS-068-03
229-SB-4DS-068-04	SB26-1	36 - 48	05/01/95	> 25	73 E		
229-SB-4DS-068-05	SB26-1	48 - 60	05/01/95	> 25	49		
229-SB-4DS-117-01	SB26-1-10N	0 - 12	05/11/95	< 25			Utilized as a final verification sample
229-SB-4DS-108-01	SB26-1-5N	0 - 12	05/10/95	> 25		13	Utilized as a final verification sample
229-SB-4DS-118-01	SB26-1-5N,5E	0 - 12	05/11/95	< 25		*********	Utilized as a final verification sample
229-SB-4DS-119-01	SB26-1-5N,5W	0 - 12	05/11/95	> 25		8.6	Utilized as a final verification sample
229-SB-4DS-069-01	SB26-2	0 - 12	05/01/95	> 25	18	20	Utilized as a final verification sample
229-SB-4DS-069-02	SB26-2	12 - 24	05/01/95	< 25			Utilized as a final verification sample
229-SB-4DS-069-03	SB26-2	24 - 36	05/01/95	< 25			Utilized as a final verification sample
229-SB-4DS-069-04	SB26-2	36 - 48	05/01/95	< 25			Utilized as a final verification sample
229-SB-4DS-069-05	SB26-2	48 - 60	05/01/95	< 25			Utilized as a final verification sample
229-SB-4DS-109-01	SB26-2-5W	0 - 12	05/10/95	< 25	-		Utilized as a final verification sample
229-SB-4DS-071-01	SB26-3	0 - 12	05/01/95	> 25	50	23	Utilized as a final verification sample
229-SB-4DS-071-02	SB26-3	12 - 24	05/01/95	< 25		0.34	Utilized as a final verification sample
229-SB-4DS-071-03	\$B26-3	24 - 36	05/01/95	< 25		0.51	Utilized as a final verification sample
229-SB-4DS-071-04	SB26-3	36 - 48	05/01/95	< 25		0.64	Utilized as a final verification sample
229-SB-4DS-071-05	SB26-3	48 - 60	05/01/95	< 25		0.14	Utilized as a final verification sample

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - SHOP BUILDING REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 - Results (ppm)	Comments
229-SB-4DS-070-01	SB26-4	0 - 12	05/01/95	> 25	14	21	Utilized as a final verification sample
229-SB-4DS-070-02	SB26-4	12 - 24	05/01/95	< 25	}	ļ	Utilized as a final verification sample
229-SB-4DS-070-03	SB26-4	24 - 36	05/01/95	< 25			Utilized as a final verification sample
229-SB-4DS-070-03D	SB26-4	24 - 36	05/01/95	< 25			Utilized as a final verification sample;Immunoassay Duplicate
229-SB-4DS-070-04	\$B26-4	36 - 48	05/01/95	< 25	ļ		Utilized as a final verification sample
229-SB-4DS-070-05	SB26-4	48 - 60	05/01/95	< 25	<u> </u>		Utilized as a final verification sample
229-SB-4DS-110-01	SB26-4-5S	0 - 12	05/10/95	< 25			Utilized as a final verification sample
POST-REMEDIATION SA	MPLES					<u> </u>	
229-SB01-5DS-051-01	SB26-1-5N	12 - 24	08/17/95	< 25	-	0.11	Utilized as a final verification sample
229-SB01-5DS-051-02	SB26-1-5N	24 - 36	08/17/95	< 25		ND (0.066)	Utilized as a final verification sample
229-\$B01-5D\$-051-03	SB26-1-5N	36 - 48	08/18/95			0.38	Utilized as a final verification sample
229-\$B01-5D\$-051-04	SB26-1-5N	48 - 60	08/18/95			0.12	Utilized as a final verification sample
229-SB01-5DS-051-05	SB26-1-5N	60 - 78	08/18/95			0.20	Utilized as a final verification sample
229-SB01-5DS-052-01	SB26-2.5W	84 - 90	08/18/95			ND (0.066)	Utilized as a final verification sample

#### Notes:

E = Sample concentration above maximum calibration limit, actual concentration may be higher

ND (0.066) = Not Detected (method detection limit is shown in parentheses)

Field Duplicate = QA/QC sample used as an indicator of the precision relative to the sample matrix

Immunoassay Duplicate = QA/QC sample used as an indicator of the precision relative to the analysis procedure

- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines.

### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - SHOP BUILDING REMEDIATION AREA

#### Notes (cont.):

- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location
    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field;
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits,
  - Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
  - Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
  - Laboratory Method 8081 samples that were used as final verification samples were validated.

## Auxiliary Building Area

BLASLAND, BOUCK & LEE, INC. engineers & scientists

#### 3.3.6 Auxiliary Building Area

The Auxiliary Building area is located on the east side of the ART area. The results of prior characterization sampling in this area indicated the presence of PCBs at levels ranging from 1.1 ppm to 167 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in eight sample locations, seven off the east side of the building and one off the south side of the building (Attachment 1).

#### 3.3.6.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of 15 samples to confirm the anticipated extent of excavation presented in the IRM Work Plan. Four of these samples indicated PCB levels above 25 ppm. This combined with sampling to verify the proposed depth of excavation, resulted in the collection of 83 additional samples. Table 6 provides a summary of the results of pre-remediation sampling in this area. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figures 9 and 10.

#### 3.3.6.2 Remediation and Verification

Remediation in the Auxiliary Building area initially consisted of excavation of soils to the extent estimated based on the results of pre-remediation sampling and analysis. Due to the proximity of the building foundation, piping, and other sensitive operations areas, excavation was primarily performed by manual means.

Following excavation, verification sampling and analysis was performed. Verification sampling initially included the collection of 30 samples. Nineteen of the samples indicated PCB levels less than the cleanup goal. However, 10 of the samples indicated PCB levels greater than 25 ppm and additional excavation and sampling activities were conducted until verification sampling demonstrated PCB levels less than the cleanup criteria. Forty-five additional post-remediation samples were collected in this area. Table 6 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figures 9 and 10.

Due to a laboratory miscalculation, there is one location in the Auxiliary Building area where a final sidewall sample indicates that the remaining soil is greater than the PCB cleanup level [sample location H4-1N,5E (24" to 36") at a concentration of 29 ppm]. During remediation activities this sample was reported as non-detect and as a result, it was believed that the PCB cleanup goals had been achieved and the excavation was backfilled. However, when the final laboratory report was received subsequent to the completion of remediation activities, it was determined that the laboratory had mistakenly reported this sample result and it should have been reported as 29 ppm. The final sidewall sample below this location is less than the PCB cleanup goal [H4-1N,5E (36" to 48") at a concentration of 18 ppm] and in the adjacent excavation area the final bottom sample, located 1 foot to the north, is also less than the PCB cleanup goal [H4-2N,5E (24" to 30") at a

concentration of 1.1 ppm]. Therefore, it appears that this is an isolated area with a small soil volume that is slightly greater than the PCB cleanup goal. Further, the soil is at a depth greater than two feet and located beneath a sidewalk (See Figure 9). Based on the above information, additional excavation activities are not warranted.

The depth of the excavation in the Auxiliary Building area ranged from 6 to 48 inches. The total volume of soil excavated from this area is estimated to be approximately 110 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
PRE-REMEDIATION SAME	PLES						
229-AB01-4DS-072-01	A5	0 - 6	05/08/95	< 25			Utilized as a final verification sample
229-AB01-4DS-030-01	B5	0 - 6	04/27/95	> 25	78	92	
229-AB01-4DS-141-01	B5-5N	0-6	05/11/95	< 25			Utilized as a final verification sample
229-AB01-4DS-178-01	B5-5N,5E	0-6	07/21/95			2.1	Utilized as a final verification sample
229-AB01-4DS-178-02	B5-5N,5E	6 - 12	07/21/95			0.10	Utilized as a final verification sample
229-AB01-4DS-142-01	B5-5S	0-6	05/11/95	< 25		2.2	Utilized as a final verification sample
229-AB01-4DS-179-01	B5-5S,5E	0-6	07/21/95		· · · · · · · · · · · · · · · · · · ·	3.8	Utilized as a final verification sample
229-AB01-4D\$-179-02	B5-5S,5E	6 - 12	07/21/95			0.51 J	Utilized as a final verification sample
229-AB01-4DS-191-02-FD	B5-5S,5E	6 - 12	07/21/95			0.35	Utilized as a final verification sample, Field duplicate of 229-AB01-4DS-179-02
229-AB01-4DS-031-01	86	0 - 6	04/27/95	> 25	16	21	Utilized as a final verification sample
229-AB01-4DS-180-01	<b>B</b> 6	6 - 18	07/21/95	ľ		1.1	Utilized as a final verification sample
229-AB01-4DS-180-02	B6	18 - 30	07/21/95			0.47	Utilized as a final verification sample
229-AB01-4DS-032-01	C5	0 - 6	04/27/95	< 25	3.8	2.9	Utilized as a final verification sample
229-AB01-4DS-073-01	C6	0 - 6	05/08/95	> 25			
229-AB01-4DS-140-01	C6-5N	0 - 6	05/11/95	> 25	55 E		
229-AB01-4DS-140-02	C6-5N	6 - 18	05/12/95	> 25			
229-AB01-4DS-141-02	C6-5N	6 - 12	05/12/95			0.10	
229-AB01-4DS-033-01	C7	0 - 6	04/27/95	< 25	ND (1.0)	0.12	Utilized as a final verification sample
229-AB01-4DS-034-01	D6	0-6	04/27/95	< 25	24	11	Utilized as a final verification sample
229-AB01-4DS-181-01	D6	6 - 18	07/21/95			1.0	Utilized as a final verification sample
229-AB01-4DS-181-02	D6	18 - 30	07/21/95		!		Utilized as a final verification sample
229-AB01-4DS-035-01	E5	0-6	04/27/95	< 25	7.8	7.9	Utilized as a final verification sample

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AB01-4DS-182-01	E5	6 - 12	07/21/95			16	Utilized as a final verification sample
229-AB01-4DS-182-02	E5	18 - 30	07/21/95			1.2	Utilized as a final verification sample
229-AB01-4DS-074-01	E6	0 - 6	05/08/95	> 25			
229-AB01-4DS-183-01	E6-5N	6 - 18	07/21/95			5.6	Utilized as a final verification sample
229-AB01-4DS-183-02	E6-5N	18 - 30	07/21/95			4.2	Utilized as a final verification sample
229-AB01-4DS-139-01	E6-5S	0-6	05/11/95	< 25	<del></del>	**********	Utilized as a final verification sample
229-AB01-4DS-139-02	E6-5S	6 - 18	05/12/95			0.30	Utilized as a final verification sample
229-AB01-4DS-184-01	E6-5S	6 - 18	07/21/95			2.2	Utilized as a final verification sample
229-AB01-4DS-184-02	E6-5\$	18 - 30	07/21/95			0.81	Utilized as a final verification sample .
229-AB01-4DS-075-01	F5	0-6	05/08/95	> 25		17,	
229-AB01-4DS-076-01	F6	0-6	05/08/95	< 25			Utilized as a final verification sample
229-AB01-4DS-138-01	F6-5S	0 - 6	05/11/95	< 25		4.0	Utilized as a final verification sample
229-AB01-4DS-138-02	F6-5\$	6 - 18	05/12/95	< 25			Utilized as a final verification sample
229-AB01-4DS-138-03	F6-5\$	18 - 30	05/12/95	< 25			Utilized as a final verification sample
229-AB01-4DS-137-01	F6-5W	0-6	05/11/95	< 25			Utilized as a final verification sample
229-AB01-4DS-137-02	F6-5W	6 - 18	05/12/95	< 25		0.13	Utilized as a final verification sample
229-AB01-4DS-128-01	G2	0-6	05/11/95	< 25			Utilized as a final verification sample
229-AB01-4DS-116-01	G3	0-6	05/11/95	> 25	200 E		
229-AB01-4DS-081-01	G4	0-6	05/08/95	> 25			
229-AB01-4DS-176-01	G4	6 - 12	07/21/95			1,200	
229-AB01-4DS-176-02	G4	12 - 18	07/21/95			240	}
229-AB01-4DS-036-01	G5	0 - 6	04/27/95	> 25	96	72	
229-AB01-4DS-077-01	G6	0-6	05/08/95	< 25			Utilized as a final verification sample

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

		Sample Depth	Sample	Immuno- assay Results	Laboratory Screening Results	Laboratory Method 8081 Results	
Sample ID	Location	(in.)	Date	(ppm)	(ppm)	(ppm)	Comments
229-AB01-4DS-136-01	G6-5W	0 - 6	05/11/95	> 25	60 E		Utilized as a final verification sample
229-AB01-4DS-136-02	G6-5W	6 - 18	05/12/95	< 25		0.41	Utilized as a final verification sample
229-AB01-4DS-136-03	G6-5W	18 - 30	05/12/95	< 25		1	Utilized as a final verification sample
229-AB01-4DS-098-01	<b>G</b> 7	0-6	05/10/95	> 25			Utilized as a final verification sample
229-AB01-4DS-203-01	G7-5E	0-6	07/27/95			210	
229-AB01-4DS-185-01	G7-5N	0 - 6	07/21/95			40	
229-AB01-4DS-225-01	G7-9E	0 - 6	08/18/95	< 25		2.8	Utilized as a final verification sample
229-AB01-4DS-115-01	G8	0-6	05/11/95	< 25			Utilized as a final verification sample
229-AB01-4D\$-177-01	H2-2.5W	0-6	07/21/95			0.22	Utilized as a final verification sample
229-AB01-4DS-177-02	H2-2.5W	6 - 12	07/21/95	1		1.2	Utilized as a final verification sample
229-AB01-4DS-190-02-FD	H2-2.5W	6 - 12	07/21/95			0.92	Utilized as a final verification sample, Field duplicate of 229-AB01-4DS-177-02
229-AB01-4DS-129-01	Н3	0-6	05/11/95	> 25			
229-AB01-4DS-039-01	H4	0-6	04/27/95	< 25	31	21	
229-AB01-4DS-078-01	H5_	0-6	05/08/95	> 25			
229-AB01-4DS-037-01	Н6	0 - 6	04/27/95	> 25	8.3	10	Utilized as a final verification sample
229-AB01-4DS-135-01	H6-5W	0-6	05/11/95	> 25	69 E		Utilized as a final verification sample
229-AB01-4DS-135-02	H6-5W	6 - 18	05/12/95	< 25		19	Utilized as a final verification sample
229-AB01-4DS-135-03	H6-5W	18 - 30	05/12/95	< 25			Utilized as a final verification sample
229-AB01-4DS-038-01	H7	0 - 6	04/27/95	> 25	73 E	99	
229-AB01-4DS-038-01D	H7	0-6	04/27/95	> 25			Immunoassay duplicate of 229-AB01-4DS-038-01
229-AB01-4DS-038-02	H7	6 - 12	05/12/95	ĺ	3.9		Utilized as a final verification sample
229-AB01-4DS-038-03	H7	12 - 18	05/12/95			0,76	Utilized as a final verification sample
229-AB01-4DS-134-01	H7-5E	0-6	05/11/95	< 25			Utilized as a final verification sample

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results	Comments
229-AB01-4DS-134-02	H7-5E	6 - 12	05/12/95	< 25	(pp.ii)	(ppm) 0.060	Utilized as a final verification sample
229-AB01-4DS-133-01	H7-5N	0-6	05/11/95	< 25		0.27	Utilized as a final verification sample
229-AB01-4DS-175-01	H7-5N,5E	0 - 6	07/21/95	······································		1.2	Utilized as a final verification sample
229-AB01-4DS-079-01	H8	0-6	05/08/95	< 25		<del> ::-</del>	Utilized as a final verification sample
229-AB01-4DS-111-Q1	14	0-6	05/10/95	< 25		1.5 J	Utilized as a final verification sample
229-AB01-4DS-111-02	14	6 - 12	05/11/95	< 25		0.22	Utilized as a final verification sample
229-AB01-4DS-146-02	14	6 - 12	05/11/95			0.19	Utilized as a final verification sample, Field duplicate of 229-AB01-4DS-111-02
229-AB01-4DS-040-01	15	0-6	04/27/95	< 25	0.74 J	0.83	Utilized as a final verification sample
229-AB01-4D\$-040-02	15	6 - 12	05/08/95	< 25	ND (1.0)	ND (0.066) J	Utilized as a final verification sample
229-AB01-4DS-096-02	15	6 - 12	05/08/95		ND (1.0)	ND (0.066) J	Utilized as a final verification sample, Field duplicate of 229-AB01-4DS-040-02
229-AB01-4DS-080-01	17	0-6	05/08/95	< 25		<del> </del>	Utilized as a final verification sample
229-AB01-4DS-041-01	J4	0-6	04/27/95	< 25	1.0	0.71	Utilized as a final verification sample
229-AB01-4DS-041-02	J4	6 - 12	05/08/95	< 25	ND (1.0)	0.49 J	Utilized as a final verification sample
229-AB02-4DS-042-01	A09-1	0-6	04/27/95	< 25			
229-AB02-4DS-121-01	A09-1-10W	0-6	08/12/95	< 25		27	
229-AB02-4DS-186-01	A09-1-10W,5S	0-6	07/21/95			29	
229-AB02-4DS-202-01	A09-1-10W,5S,2.5SW	0-6	07/27/95			320	
229-AB02-4DS-207-01	A09-1-10W-9S	0-6	08/09/95	< 25			Utilized as a final verification sample
229-AB02-4DS-212-01	A09-1-14W	0-6	08/10/95	< 25			Utilized as a final verification sample
229-AB02-4DS-211-01	A09-1-14W-13S	0-6	08/12/95	< 25		1.9	Utilized as a final verification sample
229-AB02-4DS-205-01	A09-1-14W-5S	0-6	08/09/95	> 25			• • • • • • • • • • • • • • • • • • • •
229-AB02-4DS-206-01	A09-1-14W-9S	0-6	08/09/95	> 25		<u> </u>	
229-AB02-4DS-213-01	A09-1-18W	0-6	08/12/95	< 25	· <del> ·</del>	0.31	

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

		Sample	Sample	Immuno- assay	Laboratory Screening	Laboratory Method 8081	
Sample ID	Location	Depth (in.)	Date	Results (ppm)	Results (ppm)	Results (ppm)	Comments
229-AB02-4DS-210-01	A09-1-18W-13S	0 - 6	08/09/95	< 25			Utilized as a final verification sample
229-AB02-4DS-208-01	A09-1-18W-5S	0 - 6	08/09/95	> 25			
229-AB02-4DS-209-01	A09-1-18W-9S	0 - 6	08/12/95	< 25		3.5	Utilized as a final verification sample
229-AB02-4DS-214-01	A09-1-22W,5S	0-6	08/10/95	< 25			Utilized as a final verification sample
229-AB02-4DS-222- <b>0</b> 1	A09-1-3N,10W	0-6	08/16/95			4.7	Utilized as a final verification sample
229-AB02-4DS-223-01	A09-1-3N,14W	0 - 6	08/16/95	< 25			Utilized as a final verification sample
229-AB02-4DS-224-01	A09-1-3N,18W	0-6	08/16/95	< 25			Utilized as a final verification sample
229-AB02-4DS-100-01	A09-1-5S	0-6	05/10/95	< 25		1,1	Utilized as a final verification sample
229-AB02-4DS-100-01D	A09-1-5\$	0-6	05/10/95	< 25			Utilized as a final verification sample, Immuno. dup. of 229-AB02-4DS-100-01
229-AB02-4DS-099-01	A09-1-5W	0-6	05/10/95	> 25			
229-AB02-4DS-220-01-FD	A09-1-6W,5S	0-6	08/12/95			2.8	Utilized as a final verification sample, Field duplicate of 229-AB02-4DS-204-01
229-AB02-4DS-204-01	A09-1-6W-5S	0-6	08/12/95	< 25		2.3	Utilized as a final verification sample
229-AB02-4DS-043-01	A09-2	0-6	04/27/95	< 25			Utilized as a final verification sample
229-AB02-4DS-044-01	A09-3	0-6	04/27/95	< 25	ND (1.0)	0.30	Utilized as a final verification sample
POST-REMEDIATION SAM	PLES						
229-AB01-5DS-061-01	B5	12 - 18	08/24/95			0.75 J	Utilized as a final verification sample
229-AB01-5DS-062-01-FD	B5	12 - 18	08/24/95			1.5 J	Utilized as a final verification sample, Field duplicate of 229-AB01-5DS-061-01
229-AB01-5DS-060-01	B6	6 - 18	08/23/95			0.36	Utilized as a final verification sample
229-AB01-5DS-060-02	B6	18 - 24	08/23/95			0.090	Utilized as a final verification sample
229-AB01-5DS-058-01	C6	24 - 30	08/23/95			12	Utilized as a final verification sample
229-AB01-5DS-059-01	C6-3E	4 - 18	08/23/95			0.20	Utilized as a final verification sample

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AB01-5DS-059-02	C6-3E	18 - 24	08/23/95			ND (0.066)	Utilized as a final verification sample
229-AB01-5DS-063-01	E6	24 - 30	08/24/95			5.6	Utilized as a final verification sample
229-AB01-5DS-064-01	F5	24 - 30	08/24/95			47	
229-AB01-5DS-064-02	F5	30 - 36	08/26/95			180	
229-AB01-5DS-064-03	F5	36 - 42	08/30/95			9,2	Utilized as a final verification sample
229-AB01-5DS-064-04	F5	42 - 48	08/31/95	< 25			Utilized as a final verification sample
229-AB01-5DS-085-01	F5-2S	24 - 30	08/26/95			35	
229-AB01-5DS-083-01	F5-5N,2W	24 - 30	08/26/95	< 25	· · · · · · · · · · · · · · · · · · ·		
229-AB01-5DS-100-01	F5-5S,2E	24 - 36	08/30/95	-		6.5	Utilized as a final verification sample
229-AB01-5DS-084-01	F5-5S,2W	24 - 30	08/26/95	< 25	***********		Utilized as a final verification sample
229-AB01-5DS-086-01	F5-7N	24 - 30	08/26/95			490	
229-AB01-5DS-065-01	F6-2.5W,1S	0-6	08/24/95			8.7	Utilized as a final verification sample
229-AB01-5DS-065-02	F6-2.5W,1S	6 - 18	08/24/95			0.23	Utilized as a final verification sample
229-AB01-5DS-065-03	F6-2.5W,1S	18 - 24	08/24/95			ND (0.066)	Utilized as a final verification sample
229-AB01-5DS-098-01	G3-13N	0 - 12	08/30/95			100	
229-AB01-5DS-098-02	G3-13N	12 - 24	08/30/95			2.2	Utilized as a final verification sample
229-AB01-5DS-098-03	G3-13N	24 - 30	08/30/95	ĺ		1.6	Utilized as a final verification sample
229-AB01-5DS-098-04	G3-13N	30 - 48	08/31/95	İ		0.034	Utilized as a final verification sample
229-AB01-5DS-081-01	G3-5N	12 - 18	08/26/95			1,100	
229-AB01-5DS-081-02	G3-5N	30 - 36	08/30/95	> 25			
229-AB01-5DS-081-03	G3-5N	48 - 54	08/31/95	< 25		1.4	Utilized as a final verification sample
229-AB01-5DS-081-04	G3- <b>5N</b>	54 - 60	08/31/95	< 25			Utilized as a final verification sample
229-AB01-5DS-105-01	G3-5N,6W	24 - 36	08/31/95	< 25		0.36	Utilized as a final verification sample

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-AB01-5DS-105-02	G3-5N,6W	36 - 48	08/31/95	< 25		0.12	Utilized as a final verification sample
229-AB01-5DS-069-01	G4-5N	24 - 30	08/25/95			260	
229-AB01-5DS-069-02	G4-5N	36 - 42	08/29/95			50	
229-AB01-5DS-096-01-FD	G4-5N	36 - 42	08/29/95			56	Field duplicate of 229-AB01-5DS-069-02
229-AB01-5DS-069- <b>03</b>	G4-5N	48 - 54	08/31/95	< 25		6.0	Utilized as a final verification sample
229-AB01-5DS-069-04	G4-5N	54 - 60	08/31/95	< 25			Utilized as a final verification sample
229-AB01-5DS-073-01	G4-5N,3.5W	12 - 24	08/25/95			6.2	
229-AB01-5DS-073-02	G4-5N,3.5W	24 - 36	08/29/95			2.6	
229-AB01-5D\$-092-01	G4-6N,1E	24 - 36	08/29/95			80	
229-AB01-5DS-099-01	G5-2E	24 - 36	08/30/95	> 25	1000000	240	
229-AB01-5DS-075-01	G5-3N	24 - 36	08/25/95			14	
229-AB01-5DS-068-01	G5-3N,2.5W	36 - 42	08/25/95			2.5	Utilized as a final verification sample
229-AB01-5DS-074-01	G5-3N,5W	24 - 36	08/25/95			200	
229-AB01-5DS-066-01	G5-5E,5N	24 - 30	08/25/95			31	
229-AB01-5DS-066-02	G5-5E,5N	30 - 36	08/29/95			57	
229-AB01-5DS-066-03	G5-5E,5N	36 - 42	08/31/95			2.7	Utilized as a final verification sample
229-AB01-5DS-110-01	G5-5S,4E	24 - 36	09/01/95			1.3	Utilized as a final verification sample
229-AB01-5DS-070-01	, G6-5N	6 - 18	08/25/95			42	
229-AB01-5DS-070-02	G6-5N	18 - 24	08/25/95	ŀ		23	
229-AB01-5DS-070-03	G6-5N	24 - 36	08/31/95			0.69	Utilized as a final verification sample
229-AB01-5DS-101-01	G6-5N,2E	24 - 30	08/30/95			6.8	Utilized as a final verification sample
229-AB01-5DS-102-01	G6-5N,3.5E	6 - 12	08/30/95			<del>                                     </del>	Utilized as a final verification sample
229-AB01-5DS-102-02	G6-5N,3.5E	12 - 24	08/30/95			3,1	Utilized as a final verification sample

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

		Ï		lmmuno-	Laboratorv	Laboratory		
Sample ID	Location	Sample Depth (in.)	Sample Date	assay Results (ppm)	Screening Results (ppm)	Method 8081 Results (ppm)	Comments	
229-AB01-5DS-080-01	G7-2.5N,6.5E	6 - 12	08/26/95			1.6	Utilized as a final verification sample	
229-AB01-5DS-082-01	Н3	3 - 12	08/26/95			700		
229-AB01-5DS-117-01	H3-13.5N	0 - 12	09/05/95			35		
229-AB01-5DS-118-01	H3-18.5N	0 - 12	09/07/95		<del></del>	9.8	Utilized as a final verification sample	
229-AB01-5DS-119-01 <b>-</b> FD	H3-18.5N	0 - 12	09/07/95			9,6	Utilized as a final verification sample, Field duplicate of 229-AB01-5DS-118-01	
229-AB01-5DS-109-01	H3-8.5N	0 - 12	09/01/95			43		
229-AB01-5DS-106-01	H4-1N,3.5W	24 - 36	08/31/95			6.9	Utilized as a final verification sample	
229-AB01-5DS-106-02	H4-1N,3.5W	36 - 48	08/31/95			7.3	Utilized as a final verification sample	
229-AB01-5DS-072-01	H4-1N,5E	6 - 18	08/25/95			51		
229-AB01-5DS-072-02	H4-1N,5E	18 - 24	08/25/95			46		
229-AB01-5DS-072-03	H4-1 <b>N</b> ,5E	24 - 36	08/31/95			29	Utilized as a final verification sample ,	
229-AB01-5DS-072-04	H4-1N,5E	36 - 48	08/31/95			18	Utilized as a final verification sample	
229-AB01-5DS-095-01	H4-2N,10.5E	12 - 24	08/29/95			0.38	Utilized as a final verification sample	
229-AB01-5DS-093-01	H4-2N,3.5W	12 - 24	08/29/95			0.58		
229-AB01-5DS-094-01	H4-2N,5E	24 - 30	08/29/95			1.1	Utilized as a final verification sample	
229-AB01-5DS-067-01	H5-3\$,2.5W	24 - 30	08/25/95			17	Utilized as a final verification sample	
229-AB01-5DS-071-01	H5-5E	12 - 24	08/25/95			4.6	Utilized as a final verification sample	
229-AB01-5DS-071-02	H5-5E	24 - 30	08/29/95			0.68	Utilized as a final verification sample	
229-AB01-5DS-071-03	H5-5E	30 - 36	08/31/95			2.8	Utilized as a final verification sample	
229-AB01-5DS-079-01	H7	6 - 12	08/26/95			0.59	Utilized as a final verification sample	
229-AB01-5DS-076-01	15-58,5W	12 - 18	08/25/95			2.4 J	Utilized as a final verification sample	
229-AB01-5DS-077-01-FD	15-5\$,5W	12 - 18	08/25/95	<b> </b>		1.5 J	Utilized as a final verification sample, Field duplicate of 229-AB01-5DS-076-01	
229-AB02-5DS-104-01	A09-1-10W	6 - 12	08/30/95			12	Utilized as a final verification sample	

#### COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - AUXILIARY BUILDING REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments	
229-AB02-5DS-088-01	A09-1-14W,5S	6 - 12	08/26/95			87		
229-AB02-5DS-088-02	A09-1-14W,5S	12 - 18	08/30/95			3.4	Utilized as a final verification sample	
229-AB02-5DS-103-01	A09-1-18W	6 - 12	08/30/95			44		
229-AB02-5DS-111-01	A09-1-21W,2N	0 - 12	09/01/95			0.56	Utilized as a final verification sample	
229-AB02-5DS-087- <b>0</b> 1	A09-1-5W	6 - 12	08/26/95			1.0 -	Utilized as a final verification sample	

#### Notes:

J = Estimated value

E = Sample concentration above maximum calibration limit, actual concentration may be higher

ND (0.066) = Not Detected (method detection limit is shown in parentheses)

Field Duplicate = QA/QC sample used as an indicator of the precision relative to the sample matrix

Immunoassay Duplicate = QA/QC sample used as an indicator of the precision relative to the analysis procedure

- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines,
- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location
    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field;
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits;

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - AUXILIARY BUILDING REMEDIATION AREA

#### Notes (cont.):

- Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
- Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
- Laboratory Method 8081 samples that were used as final verification samples were validated.

# Drainage Ditch B Area

BLASEAND, BOUCK & LEE, INC. engineers & scientists

#### 3.3.7 Drainage Ditch B Area

The Drainage Ditch B area is located in the southwest corner of the site. The results of prior characterization sampling in this area indicated the presence of PCBs at levels ranging from 0.33 ppm to 30 ppm. Remediation in this area was proposed because of the presence of PCBs above the cleanup goal in one sample located approximately in the center of the ditch near the culvert that discharges to the separator pond (Attachment 1).

#### 3.3.7.1 Pre-Remediation Delineation

Initially, pre-remediation sampling and analysis activities included the collection of five samples to confirm the anticipated extent of excavation presented in the IRM Work Plan. None of these samples indicated PCB levels above 25 ppm. Since the exact location of the prior samples was not certain, six additional samples were collected to further characterize the area. Again, none of these samples indicated PCB levels above 25 ppm. Following discussions with the NYSDEC, it was determined that a limited excavation would be performed in the approximate location of the prior sample that was above the cleanup goal. Table 7 provides a summary of the results of pre-remediation sampling in this area. The results of pre-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 11.

#### 3.3.7.2 Remediation and Verification

Remediation in the Drainage Ditch B area consisted of excavation of soils in an area approximately 5-ft by 5-ft centered around and the estimated location of the prior sample point exceeding 25 ppm PCBs. Since there were no sensitive operations areas, excavation was performed by mechanical means.

Following excavation, verification sampling and analysis was performed. Verification sampling included the collection of five samples. Two of the samples indicated PCB levels less than the cleanup goal. However, three of the samples indicated PCB levels greater than 25 ppm and additional excavation and sampling activities were conducted until verification sampling demonstrated PCB levels less than the cleanup criteria. Thirty-seven additional post-remediation samples were collected in this area. Table 7 provides a summary of the results of post-remediation sampling in this area. The results of post-remediation sampling and analysis that were utilized as final verification samples are shown on Figure 11.

As necessary, due to the high water content of the soils from this area, cement was mixed with the soils as they were removed, to reduce the water content of the materials for disposal purposes. The depth of excavation in the Drainage Ditch B area ranged from 6 to 18 inches. The total volume of soil excavated from this area is estimated to be approximately 105 cy. This total volume was disposed at the CWM disposal facility in Model City, New York.

17

# COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

## PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - DRAINAGE DITCH B REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments	
PRE-REMEDIATION SAMPLES								
229-DA-4DS-062-01	G10-1	0 - 6	05/09/95	< 25		3.8	Utilized as a final verification sample	
229-DA-4DS-063-01	G10-2	0 - 6	05/09/95	< 25			Utilized as a final verification sample	
229-DA-4DS-064-01	G10-3	0 - 6	05/09/95	< 25	-		Utilized as a final verification sample	
229-DA-4DS-065-01	G10-4	0 - 6	05/09/95	< 25	.,	2.7	Utilized as a final verification sample	
229-DA-4DS-066-01	G10-5	0 - 6	05/09/95	< 25		0.88	Utilized as a final verification sample	
229-DA-4DS-145-01	G10-6	0 - 6	05/12/95			5.0	Utilized as a final verification sample	
229-DA01-4DS-216-01	G10-6-1.5N,6E	0-6	08/11/95		1-01-1-1-1	4.4	Utilized as a final verification sample	
229-DA01-4DS-217-01	G10-6-1N,12.5E	0-6	08/11/95	*		0.68 J	Utilized as a final verification sample	
229-DA01-4DS-218-01-FD	G10-6-1N,12.5E	0 - 6	08/11/95			1.0 J	Utilized as a final verification sample, Field duplicate of 229-DA01-4DS-217-0	
229-DA01-4DS-195-01	G10-7.5NE	0-6	07/21/95			3.4	Utilized as a final verification sample	
229-DA01-4DS-196-01	G10-7.5\$W	0 - 6	07/21/95		·	4.7	Utilized as a final verification sample	
POST-REMEDIATION SAM	IPLES							
229-DA01-5DS-055-01	G10-6	6 - 12	08/22/95	< 25		5.5	Utilized as a final verification sample	
229-DA01-5DS-127-01	G10-6-10.5N,17E	0 - 6	09/14/95			72 J		
229-DA01-5DS-137-01	G10-6-11.5N,43.5E	0 - 6	09/22/95	< 25		2.6	Utilized as a final verification sample	
229-DA01-5DS-137-02	G10-6-11.5N,43.5E	6 - 12	09/22/95	< 25	†	4.7	Utilized as a final verification sample	
229-DA01-5DS-137-03	G10-6-11.5N,43.5E	12 - 18	09/22/95	< 25		6.5	Utilized as a final verification sample	
229-DA01-5DS-120-01	G10-6-11W	6 - 12	09/08/95	> 25				
229-DA01-5DS-120-02	G10-6-11W	12 - 18	09/09/95	< 25	1	0.27		
229-DA01-5DS-126-01	G10-6-13.5N,12.5E	0 - 6	09/14/95			26 J		
229-DA01-5DS-125-01	G10-6-15.5N,7E	0 - 6	09/14/95	< 25		16 J		

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

## PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - DRAINAGE DITCH B REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments	
229-DA01-5DS-136-01	G10-6-17.5N,42.5E	0 - 6	09/22/95	< 25			Utilized as a final verification sample	
229-DA01-5DS-136-02	G10-6-17.5N,42.5E	6 - 12	09/22/95	< 25			Utilized as a final verification sample	
229-DA01-5DS-136-03	G10-6-17.5N,42.5E	12 - 18	09/22/95	< 25		}	Utilized as a final verification sample	
229-DA01-5DS-130-01	G10-6-18.5N,11E	0 - 6	09/14/95	< 25				
229-DA01-5DS-138-01	G10-6-20N,28.5E	18 - 24	09/26/95	< 25		ND (0.066)	Utilized as a final verification sample	
229-DA01-5DS-124-01	G10-6-20W	0 - 6	09/09/95	< 25		0.30	Utilized as a final verification sample	
229-DA01-5DS-124-02	G10-6-20W	6 - 12	09/09/95			0.068	Utilized as a final verification sample	
229-DA01-5DS-131-01	G10-6-22.5N,14E	0-6	09/14/95	< 25				
229-DA01-5DS-135-01	G10-6-23N,41.5E	0 - 6	09/22/95	< 25			Utilized as a final verification sample	
229-DA01-5DS-135-02	G10-6-23N,41.5E	6 - 12	09/22/95	< 25			Utilized as a final verification sample	
229-DA01-5DS-135-03	G10-6-23N,41.5E	12 - 18	09/22/95	< 25			Utilized as a final verification sample	
229-DA01-5DS-122-01	G10-6-2N,16W	0 - 6	09/08/95	> 25				
229-DA01-5DS-116-01	G10-6-25,8W	0 - 6	09/05/95			520		
229-DA01-5DS-116-02	G10-6-25,8W	6 - 12	09/12/95	> 25		2,600 J		
229-DA01-5DS-116-03	G10-6-2\$,8W	12 - 18	09/14/95	> 25				
229-DA01-5DS-116-04	G10-6-2\$,8W	18 - 24	09/26/95	< 25		ND (0.066)	Utilized as a final verification sample	
229-DA01-5DS-139-01-FD	G10-6-25,8W	18 - 24	09/26/95			ND (0.066)	Utilized as a final verification sample, Field duplicate of 229-DA01-5DS-116-04	
229-DA01-5DS-140-01	G10-6-30N,19.5E	0 - 6	09/26/95	< 25			Utilized as a final verification sample	
229-DA01-5DS-134-01	G10-6-30N,40.5E	0 - 6	09/22/95	< 25		7.5	Utilized as a final verification sample	
229-DA01-5DS-134-02	G10-6-30N,40.5E	6 - 12	09/22/95	< 25		0.18	Utilized as a final verification sample	
229-DA01-5DS-134-03	G10-6-30N,40.5E	12 - 18	09/22/95	< 25	ļ	0.62	Utilized as a final verification sample	
229-DA01-5DS-121-01	G10-6-4.5N,9W	0 - 6	09/09/95	> 25		18		
229-DA01-5DS-121-02	G10-6-4.5N,9W	6 - 12	09/09/95			12		

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - DRAINAGE DITCH B REMEDIATION AREA

Sample ID	Location	Sample Depth (in.)	Sample Date	Immuno- assay Results (ppm)	Laboratory Screening Results (ppm)	Laboratory Method 8081 Results (ppm)	Comments
229-DA01-5DS-128-01	G10-6-4N,5.5W	0 - 6	09/14/95	> 25	T		
229-DA01-5DS-115-01	G10-6-5N	0 - 6	09/05/95			3.3	
229-DA01-5DS-123-01	G10-6-5S,12W	0 - 6	09/09/95	< 25		14	Utilized as a final verification sample
229-DA01-5DS-129-01	G10-6-7S,9.5W	0-6	09/14/95	< 25			Utilized as a final verification sample
229-DA01-5DS-129-02	G10-6-7S,9.5W	6 - 18	09/26/95	< 25		2.6	Utilized as a final verification sample
229-DA01-5DS-132-01	G10-6-9N,1W	0-6	09/14/95	> 25			

#### Notes:

J = Estimated value

ND (0.066) = Not Detected (method detection limit is shown in parentheses)

Field Duplicate = QA/QC sample used as an indicator of the precision relative to the sample matrix

Immunoassay Duplicate = QA/QC sample used as an indicator of the precision relative to the analysis procedure

- 1. Laboratory Samples were analyzed by Recra Environmental, Inc. (Recra Amherst, New York).
- 2. Data Validation was performed by Blasland, Bouck & Lee, Inc. of Syracuse, NY using USEPA Region II Guidelines.

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### PRE- AND POST-REMEDIATION PCB SAMPLING ANALYSIS RESULTS - DRAINAGE DITCH B REMEDIATION AREA

#### Notes (cont.):

- 3. Pre- and post-remediation analytical data shown on the tables or figures (i.e., samples labeled as "Utilized as a final verification sample") were collected during the implementation of the IRM Work Plan (4/26/95 to 9/26/95). Results represent total PCBs in milligrams/kilogram (mg/kg) or parts per million (ppm). Please note the following regarding sample information displayed on figures and this table:
  - Sample ID utilized by Tennessee Gas Pipeline Company for their database and internal tracking purposes;
  - Location is used to position samples based on a surveyed grid or a previous Ecology & Environment, Inc. sample location

    (as surveyed by Blasland, Bouck & Lee, Inc.). See Figure 2 Sample Location Key for further clarification regarding the method used to locate a discrete sample;
  - Sample depth refers to the distance below the original ground surface;
  - Sample date refers to the date that the sample was collected in the field;
  - Immunoassay Results obtained by Blasland, Bouck & Lee, Inc. using Ensys® PCB RISc Immunoassay Test Kits;
  - Laboratory Screening Results obtained by Recra Environmental, Inc. using the Recra Total PCB Screening Method;
  - Laboratory Method 8081 Results obtained by Recra Environmental, Inc. using USEPA SW-846 Method 8081; and
  - Laboratory Method 8081 samples that were used as final verification samples were validated.

## 3.4 Air Monitoring Results

During the performance of remedial activities, personal and/or community air monitoring was conducted in accordance with the IRM Design Plan. The air monitoring program consisted of monitoring for PCBs, particulates, volatile organic compounds (VOCs), and lower explosive limit (LEL).

Beginning on July 27, 1995, perimeter air monitoring for PCBs was conducted on a daily basis at one upwind and two downwind locations. PCB air sample collection commenced approximately one hour prior to the start of excavation and continued until one hour after excavation activities ceased. The samples were collected according to the National Institute for Occupational Safety and Health (NIOSH) analytical method #5503 Polychlorobiphenyls. All PCB air monitoring results indicated airborne levels of PCBs below the detection limit of the NIOSH analytical method (0.08 to 0.3 ug/m³). As a result, and as agreed to by the NYSDEC, on August 18, 1995, the perimeter air monitoring program for PCBs was discontinued.

Air monitoring for total particulates was conducted at one upwind location and in the exclusion zone during remedial excavation utilizing two MIE Inc. Model PDL-10 (RAM-1) real-time aerosol monitors. The RAM-1 monitors were operated continuously during excavation activities and 15-minute time-weighted averages were recorded. Additionally, a MIE Inc., Model PDM-3 (Miniram) was available to provide additional real-time data as necessary. Data collected indicated that airborne levels of total dust were below the site action level (0.150 mg/m³ above background), with two exceptions. The first exception occurred on August 3, 1995 in the Pipe Rack area. It was determined that this was due to adjacent lawn mowing activities which caused the RAM-1 monitor to malfunction. The Miniram monitor was used to provide supplemental information during this time period and these readings were below the site action level. In addition, station personnel were asked to discontinue any further upwind lawn mowing activities. The second exception occurred on August 19, 1995 in the ART area. It was determined that this was due to backfilling of "clean" materials in adjacent excavations. The backfilling activities were discontinued and subsequent readings were below the site action level.

Air monitoring for VOCs was conducted in the exclusion zone once per hour during remedial excavation. Readings were collected in the worker breathing zone over a 5-minute period using a Century Organic Vapor Analyzer (OVA) flame ionization detector. The site action level (5 ppm above background) was not exceeded in the exclusion zone during excavation activities; therefore, downwind perimeter monitoring was not required as provided in the IRM Design Plan.

Air monitoring for LEL was conducted periodically in the exclusion zone. Readings were collected in the work area using a Gastech 201 LEL meter. The data collected demonstrated that the site action level (10 percent of the LEL) was not exceeded in the exclusion zone during excavation activities.

### 3.5 Backfill and Restoration of Excavated Areas

Following verification that a given excavation area had been successfully remediated, "clean" materials were obtained from an off-site source and utilized to backfill the area. Representative samples of all soil backfill materials were subject to laboratory analysis for PCBs, metals, total petroleum hydrocarbons (TPH), VOCs,

and semi-VOCs to demonstrate that these constituents were not present at levels of concern in the backfill materials. Copies of analytical results for backfill materials are provided as Attachment 2. It should be noted that the IRM Design Plan was modified via an August 15, 1995 letter to the NYSDEC to eliminate TPH testing of backfill soils.

In general, common backfill was placed and compacted to within approximately 6 inches of the original grade. In areas which were previously vegetated, the final 6 inches were backfilled with topsoil, fertilized, seeded, and mulched to re-establish a vegetative cover. In areas which previously contained a gravel cover, the final 6 inches were backfilled with gravel to re-establish original conditions. Areas that were previously paved with asphalt or had sidewalks were restored to original conditions. The drainage channel portion of the excavation area in Drainage Ditch D was backfilled with rip-rap to limit potential erosion. The remainder of the excavation area was backfilled with common backfill and seeded.

### 3.6 Summary

In total, soil remediation activities were performed in seven areas of the site: the ART area, Pipe Rack area, Scrap Yard area, Compressor Building area, Shop Building area, Auxiliary Building area, and Drainage Ditch B area. Within these areas, approximately 414 in-place cy of soil were excavated and disposed of off-site disposal at the CWM disposal facility as "TSCA-Regulated" materials. A summary of the disposal manifests and associated disposal weights is provided in Table 8. It should be noted that disposal weights provided on the summary table include not only materials generated as part of soil remediation, but also debris removed as part of drainline cleaning, temporary erosion control materials, and other miscellaneous solid waste materials generated in conjunction with remediation activities.

#### TABLE 8

## TENNESSEE GAS PIPELINE COMPANY HOUSTON, TEXAS

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

### **DISPOSAL SUMMARY**

Solid Materials								
Maninfest Number	Date of Shipment	Container Type	Weight (kg)					
NYB <b>82</b> 18 <b>85</b> 4 95007	08/02/95	Roll-off Dumpster	12,537					
NYB <b>82</b> 18 <b>91</b> 7 95008	08/04/95	Roll-off Dumpster	8,165					
NYB <b>82</b> 19142 95009	08/04/95	Roll-off Dumpster	11,267					
NYB <b>82</b> 18 <b>92</b> 6 95010	08/07/95	Roll-off Dumpster .	16,974					
NYB <b>82</b> 18 <b>93</b> 5 95011	08/07/95	Roll-off Dumpster	11,966					
NYB <b>82</b> 18944 95012	08/08/95	Roll-off Dumpster	15,450					
NYB <b>82</b> 18953 95013	08/08/95	Roll-off Dumpster	9,934					
NYB 8 <b>2</b> 189 <b>6</b> 2 95013A	08/08/95	Roll-off Dumpster	15,132					
NYB <b>82</b> 18 <b>97</b> 1 95014	08/09/95	Roll-off Dumpster	8,591					
NYB <b>82</b> 18989 95015	08/11/95	Roll-off Dumpster	11,676					
NYB <b>82</b> 18 <b>99</b> 8 95016	08/11/95	Roll-off Dumpster	5,579					
NYB 8219007 95017	08/11/95	Roll-off Dumpster	10,660					
NYB <b>82</b> 19016 95018	08/21/95	Roll-off Dumpster	13,082					
NYB <b>82</b> 19 <b>02</b> 5 95019	08/22/95	Roll-off Dumpster	16,175					
NYB <b>82</b> 19 <b>03</b> 4 95020	08/22/95	Roll-off Dumpster	12,864					
NYB <b>82</b> 19043 95022	08/25/95	Roll-off Dumpster	12,002					
NYB <b>82</b> 19052 95023	08/25/95	Roll-off Dumpster	10,070					
NYB 8 <b>21</b> 90 <b>6</b> 1 95023A	08/29/95	Roll-off Dumpster	12,719					
NYB <b>82</b> 19 <b>07</b> 9 95024	08/29/95	Roll-off Dumpster	12,710					
NYB <b>82</b> 19088 95025	08/30/95	Roll-off Dumpster	10,777					
NYB <b>82</b> 19 <b>09</b> 7 95026	08/30/95	Roll-off Dumpster	10,324					
NYB <b>82</b> 19 <b>10</b> 6 95027	08/31/95	Roll-off Dumpster	12,565					
NYB <b>82</b> 19115 95028	08/31/95	Roll-off Dumpster	12,202					
NYB <b>82</b> 19124 95029	08/31/95	Roll-off Dumpster	13,862					
NYB <b>82</b> 19 <b>13</b> 3 95030	08/31/95	Roll-off Dumpster	8,925					
NYB <b>79</b> 376 <b>8</b> 5 95031	08/31/95	Roll-off Dumpster	11,757					
NYB <b>79</b> 37676 95032	08/31/95	Roll-off Dumpster	8,655					
NYB 8293662 95033	09/01/95	Roll-off Dumpster	14,760					
NYB <b>82</b> 93 <b>64</b> 4 95034	09/07/95	Roll-off Dumpster	10,705					
NYB 8 <b>2</b> 93635 95035	09/07/95	Roll-off Dumpster	9,580					
NYB 8293626 95036	09/07/95	Roll-off Dumpster	14,570					
NYB 8 <b>29</b> 36 <b>53</b> 95034A	09/01/95	Roll-off Dumpster	15,849					
NYB <b>82</b> 93617 95037	09/08/95	Roll-off Dumpster	11,712					
NYB 7 <b>9</b> 37622 95038	09/08/95	Roll-off Dumpster	16,965					
NYB 7 <b>9</b> 37 <b>63</b> 1 95039	09/08/95	Roll-off Dumpster	14,352					
NYB <b>82</b> 936 <b>0</b> 8 95040	09/08/95	Roll-off Dumpster	8,782					
NYB <b>82</b> 93599 95041	09/11/95	Roll-off Dumpster	15,023					
NYB 8 <b>2</b> 93 <b>58</b> 1 95042	09/11/95	Roll-off Dumpster	13,517					
NYB <b>82</b> 93 <b>57</b> 2 95043	09/19/95	Roll-off Dumpster	5,108					
NYB 7 <b>9</b> 37649 95044	09/19/95	Roll-off Dumpster	11,050					
NYB 7 <b>9</b> 37 <b>65</b> 8 95045	09/19/95	Roll-off Dumpster	6,341					
NYB 7 <b>9</b> 37 <b>66</b> 7 95046	09/19/95	Roll-off Dumpster	12,274					

#### TABLE 8

## TENNESSEE GAS PIPELINE COMPANY HOUSTON, TEXAS

## COMPRESSOR STATION 229 IRM REPORT EDEN, NEW YORK

#### **DISPOSAL SUMMARY**

Solid Materials				
Mani <b>nf</b> est Number	Date of Shipment	Container Type	Weight (kg)	
NYB <b>79</b> 37 <b>45</b> 1 95047	09/28/95	Roll-off Dumpster	8,355	
NYB 7 <b>9</b> 37 <b>47</b> 8 95048	09/28/95	Roll-off Dumpster	9,544	
NYB <b>79</b> 37487 95049	09/29/95	Roll-off Dumpster	9,607	
NYB <b>79</b> 37 <b>49</b> 6 95050	09/29/95	Roll-off Dumpster	8,927	
NYB 7 <b>9</b> 37 <b>50</b> 5 95051	09/29/95	Roll-off Dumpster	8,981	
NYB 7 <b>9</b> 37514 95052	09/29/95	Roll-off Dumpster	6,359	
NYB 7 <b>9</b> 37523 95053	09/29/95	Roll-off Dumpster	8,455	
NYB 7 <b>9</b> 37 <b>53</b> 2 95054	09/29/95	Roll-off Dumpster	5,906	
NYB 7 <b>9</b> 37 <b>54</b> 1 95055	09/29/95	Roll-off Dumpster	7,856	
NYB 7 <b>9</b> 37586 95056	10/02/95	Roll-off Dumpster	12,129	
NYB 7 <b>9</b> 37 <b>57</b> 7 95057	10/02/95	Roll-off Dumpster	3,992	
NYB 7 <b>9</b> 37 <b>59</b> 5 95058	10/02/95	Roll-off Dumpster	4,581	
	Liquid (Non-F	lazardous)		
Manin <b>f</b> es <b>t</b> Number	Date of Shipment	Container.Type	Volume (gal)	
<b>9</b> 5N002	09/07/95	Tank Truck	4.040	
<b>9</b> 5N <b>0</b> 03	09/11/95	Tank Truck	3,509	
<b>9</b> 5N <b>00</b> 5	09/18/95	Tank Truck	3,241	
<b>9</b> 5N006	09/29/95	Tank Truck	1,117	
		Total Solid Material (kg):	591,900	
		Pounds:	1,305,140	
		Tons:	652.6	
		Total Liquid (gallons):	11,907	

#### Notes:

- Disposal quantities include materials excavated as part of soit remediation, debris removed as part of drainline cleaning, and other materials generated in conjunction with remediation activities.
- 2. All solid and liquid materials were disposed at the Chemical Waste Management Facility in Model City New York.

Section 4

BLASLAND, BOUCK & LEE, INC. engineers & scientists

### SECTION 4 - DRAINLINE REMEDIATION

#### 4.1 General

This section provides a summary of the drainline activities performed at Station 229. The goal of drainline remediation was to prevent potential future migration of PCBs via drainlines. To this end, remediation activities primarily included cleaning, plugging, and/or grouting of the appropriate drainline segments and related appurtenances. In addition, other activities were performed to address specific considerations associated with each drainline. The specific remediation activities undertaken for each drainline system are identified below.

#### 4.2 Drainline C

Drainline C (Figure 11) extends from the Compressor Building area to Outfail 003. Components of this drainline, as identified in the IRM Work Plan, include the Compressor Building roof and floor drains, drainage piping, a 100-gallon concrete sump tank adjacent to the northeast corner of the Compressor Building, and a 100-gallon concrete oil/water separator located at the outfail. This drainline was selected for remediation activities based on the presence of PCBs in Manhole 2 and the 100-gallon concrete sump tank adjacent to the Compressor Building. However, subsequent to the preparation of the IRM Work Plan and Design Plan, information was obtained relative to Drainline C indicating that remediation of the drainline was not necessary. Specifically, it was noted that the Compressor Building floor drains are connected to Manholes 1 and 2 which discharge through the Drainline D system, whereas the Compressor Building roof drains are not connected to Manholes 1 and 2 and discharge through the Drainline C system. As shown on Figure 12, the roof drain from the east side of the Compressor Building passes through Manhole 2 but does not discharge into it, and the roof drain from the west side of the building bypasses around Manhole 1. Additionally, an observation of the 100-gallon concrete sump tank adjacent to the Compressor Building indicated that it was not connected to the drainlines and there was no indication that it was previously connected to the roof or floor drains.

As a result of the above information, the activities identified in the IRM Work Plan were modified in consultation with the NYSDEC and included the following (see also Figure 12):

- The roof drainage piping from the Compressor Building roof drains were re-routed around Manhole 2 to Drainline C, rather than through Manhole 2. The locations where the pipe passed through Manhole 2 were grouted to seal the openings;
- The 100-gallon concrete sump tank adjacent to the Compressor building was cleaned (i.e., sediment and water removed) and filled with grout. The water and sediment were separately handled, sediments were disposed as "Regulated" materials and water was disposed as "Non-Hazardous" material at the CWM disposal facility in Model City, New York. The water was removed utilizing a vacuum truck and the sediments were removed manually;

- The oil/water separator and the short section of pipe from the separator to the outfall were removed from service, and the oil/water separator was filled with grout during previous station maintenance activities. As a result, remediation activities were not performed for these components; and
- The roof drain lines and the remaining drainage piping of Drainline C were left open to be evaluated by TGP's water management group for potential future use. [Note: The water management group's evaluation of Drainline C included a hydraulic evaluation and the collection of a water sample from the Drainline C outfall. The water sample was analyzed for PCBs and the results of the analytical testing indicated non-detect at a concentration of 0.65 ppb, which is consistent with the previously collected water samples. These results supported the determination that Drainline C could be re-used. However, the hydraulic evaluation indicated that the hydraulic capacity of Drainline C was insufficient. As a result, the portions of Drainline C that run along the east and west sides of the Compressor Building were re-used for the roof drains but the portion from the south east corner of the Compressor Building to the outfall, was abandoned in-place and will not be re-used (See Figure 12). A new 18-inch diameter drainline was installed to provide sufficient capacity for the roof drainage water.

#### 4.3 Drainline D

Drainline D (Figure 12) extends from the Auxiliary Building area, the Jacket Water Cooler area, and the Compressor Building area to Outfall 004. Components of this drainline include the Auxiliary Building floor, roof and foundation drains; the Auxiliary Cooler drains; the Jacket Water Cooler drains; the heliport hangar floor drains; the Compressor Building Floor drains (as noted above); drainage piping; 10 manholes; a 100-gallon concrete sump tank (adjacent to the Auxiliary Building); and a 1,000-gallon oil/water separator adjacent to the separator pond. This drainline system was identified for remediation based on the presence of PCBs greater than 25 ppm in the manhole and oil/water separator sediments. A sample of the sediment from Manhole 10 was collected and submitted to RECRA for waste characterization analysis for disposal purposes. The results of this testing are presented in Attachment 3.

Similar to Drainline System C, the remediation activities identified in the IRM Design Plan were modified in consultation with the NYSDEC and included the following (see also Figure 12):

- The drainline appurtenances including the manholes, 100-gallon sump tank, and 1,000-gallon oil/water separator were cleaned (i.e., water and sediment removed). The water and sediment were separately handled, sediments were disposed as "Regulated" materials and water was disposed as "Non-Hazardous" material at the CWM disposal facility in Model City, NY. The water was removed using a vacuum truck and the sediments were removed manually; and
- The roof, floor and foundation drainlines for the Auxiliary Building; the floor drainlines for the Compressor Building; and Manholes 1, 2, 4, and 5 were left open to be evaluated by TGP's water management group for potential future use. Mechanical compression plugs were installed in the inlet and outlet pipes in Manholes 1, 2, 4, and 5 to temporarily limit use. The remainder of

Drainline System D, including the appurtenances, was grouted in accordance with the IRM Design Plan to prevent potential future PCB migration. [Note: the water management group determined that the remaining portions of Drainline D will not be re-used. As a result, the drainlines and manholes that were not remediated will be subject to closure in accordance with the procedures outlined in the October 13, 1995 letter from BBL to the NYSDEC. This remaining portions of this drainline and the appurtenances are scheduled to be closed during 1996.]

The specific procedures that were followed for drainline remediation are described in further detail below.

Following the removal of sediment and water from drainline appurtenances, the drainline pipes were grouted by attaching a length of discharge hose to one end of the pipe and using a concrete pump to pump the grout into the pipe until it was observed flowing out of the other end. Both ends of the pipe (if accessible) were then sealed with a compression plug. After this procedure was repeated for all pipes entering or exiting a drainline appurtenance, the appurtenance was filled to within 6 inches of the ground surface. Once the grout had set, the top 6 inches were restored to match surrounding surface conditions using soil backfill and vegetation or gravel.

To the extent possible, the drainline pipes were filled in one continuous effort. This was generally accomplished for the drainlines larger than 8 inches in diameter. For smaller diameter drainlines, it was found that due to the materials of construction of the pipes (vitreous clay) the grout mixture could only be pumped into short lengths of the pipe. As a result, excavations were performed at periodic intervals (as frequent as 20-foot intervals) to expose the drainline at the locations where it was believed that the grout had been pumped to. The exposed pipe was opened and the grout was pumped into the pipe (in both directions, if necessary). This procedure was repeated until it was determined that the pipe had been filled.

The effectiveness of the above drainline remediation procedures was determined based on field observations by the NYSDEC, the TGP Chief Inspector, and the Engineer's On-Site Representative.

Section 5

BLASLAND, BOUCK & LEE, INC. engineers & scientists

## SECTION 5 - QUALITY ASSURANCE/QUALITY CONTROL

#### 5.1 General

The Quality Assurance/Quality Control (QA/QC) procedures associated with soil and drainline remediation were used to ensure that the analytical data were sufficient to meet the data quality objectives (DQOs) specified in the Quality Assurance Project Plan (QAPP) for New York State Compressor Stations (BBL, May 1995). The DQOs were established to provide: (1) a framework for the control and evaluation of field and laboratory data; and (2) the definitions of acceptable data quality for the various analyses in terms of precision and accuracy. To achieve the designated DQOs, specific procedures for field sampling activities, analytical procedures, data reporting, and data validation were established in the QAPP. The QAPP also outlined procedures to evaluate overall data quality through the analysis of the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters. The remainder of this section presents a summary of the QA/QC-related requirements of the IRM Design Plan.

### 5.2 Sample Collection

The IRM Design Plan and the QAPP outlined specific procedures for the collection of samples. These procedures were established to ensure that sample results were representative of the environment from which they were collected.

In compliance with the IRM Design Plan and the QAPP, the laboratory analytical samples for this investigation were collected and sent to the laboratory with chain-of-custody (COC) forms. The COC forms provided a record of sample collection and custody from the time of collection until laboratory receipt. These forms were completed prior to the transport of each sample and represent one form of communication between the sampling team and the analytical laboratory. The COC forms provide important information for the laboratory, including project name, sample identification number, sampling date, and required analyses. The original COC forms accompanied the samples shipped to the laboratory, and copies were retained by the sampling team.

Field notebooks were also utilized to document field sampling activities. These notebooks were utilized by the sampling team to record activities performed at the site related to both sampling events and the overall remedial activities. This form of documentation provides a source of information to assist in the reconstruction of field events, and aid in the data review and interpretation process.

Sample collection activities were also monitored through the collection and analysis of field duplicate and field blank samples. The field duplicate samples consisted of two environmental samples collected from the same location, but were analyzed as two discrete samples. Sample identification for one of the two samples occurred in a manner consistent with the sample numbering system presented in the QAPP. However, the second sample (the "duplicate" sample) was given a non-descriptive sample identification. Analysis of each sample by the laboratory, and comparison of the results by personnel not affiliated with the laboratory provided a "blind" audit of the performance of the sample collection and analysis procedures. A total of 30 field duplicate samples were collected, representing a collection frequency of 5.3 percent.

Rinse blank samples were collected to ensure that the sample containers and sampling equipment were not impacting the environmental sample. Rinse blank samples were prepared by pouring de-ionized/distilled water over or through the decontaminated sampling device and collecting the water. The rinse blank water was collected and transferred to sample containers using procedures consistent with the handling of the environmental samples. A total of 25 field blank samples were collected representing a frequency of 4.4 percent. An evaluation of the compliance of the field QA/QC sample results with the QAPP-specified DQOs is presented in a separate Data Validation Report for Station 229 (Blasland, Bouck & Lee, Inc., February 1996). In summary, the data were within specified QA/QC limits and are sufficient for their intended use. Any necessary qualifiers are noted on the tables and figures of this IRM Report.

### 5.3 Immunoassay Screening Analysis

Field screening of soil was conducted for 277 samples using immunoassay analysis. The field screening analysis program also included nine duplicate immunoassay analyses (3.2 percent frequency). The duplicate immunoassay analyses were conducted by preparing two aliquots for analysis from the same sample. The duplicate immunoassay analyses were in agreement in all cases.

Of the 277 immunoassay analyses, 120 were subject to laboratory verification analysis. This represents an overall verification rate of 43.3 percent. For the final verification samples only, the laboratory verification rate was 97 out of 192 samples, or 50.5 percent. This exceeded the targeted laboratory verification rate of 50 percent, as specified in the IRM Work Plan.

It should be noted that in instances where immunoassay results did not agree with fixed laboratory analytical results, the laboratory result was considered to be the accurate measure of the soil PCB levels.

### 5.4 Laboratory Screening Analysis

Laboratory screening of soil samples also was conducted for 70 samples by RECRA. The laboratory screening analysis program also collected three field duplicate samples (4.3 percent frequency).

Of the 70 field screening analyses, 55 were subject to laboratory verification analysis. This represents an overall verification rate of 78.6 percent. For the final verification samples, the laboratory verification rate was 37 out of 40 samples, or 92.5 percent.

### 5.5 Confirmation Sample Analysis

Laboratory analyses were conducted for 295 samples by RECRA utilizing analytical procedures consistent with the requirements presented in the IRM Design Plan and the QAPP. Of these 295 samples, 252 verification samples were subject to data validation following the procedures outlined in the QAPP. An evaluation of the compliance of these QA/QC sample results with the QAPP-specified DQOs is presented in a separate Data Validation Report for Station 229 (Blasland, Bouck & Lee, Inc., February 1996). In summary, the data were within specified QA/QC limits and are valid for their intended use.

24

Section 6

BLASLAND, BOUCK & LEE, INC. engineers & scientists

## SECTION 6 - POST-REMEDIATION ACTIVITIES

#### 6.1 General

TGP is currently developing a Feasibility Study (FS) that will address the remaining areas of potential concern at Station 229, including any additional on-site activities determined to be necessary. Upon review and approval of the FS and issuance of the Record of Decision (ROD) by NYSDEC, long-term site management activities such as operations, maintenance and monitoring will be established. Therefore, the only post-remediation activities that have been identified at this time are the long-term management of sampling and analysis data collected as part of IRM activities. Additional details regarding these activities are provided below.

### 6.2 Data Management

TGP maintains an electronic database of all sampling and analysis data generated as part of site remediation activities. This database includes sample IDs, media designations, locations, depths, analytical parameters, results, and other sample-specific information. TGP will maintain this information in accordance with the Order on Consent for the IRM, as documentation of the remediation of the site.

## REFERENCES

- Blasland, Bouck & Lee, Inc. (BBL), February 1996, Data Validation Report for Station 229.
- BBL, July 1995, Interim Remedial Measure Design Plan Tennessee Gas Pipeline Company Compressor Station 229 at Eden, New York.
- BBL, May 1995, Quality Assurance Project Plan Soil/Drainline Remediation New York State Compressor Stations.
- Environ Corporation (Environ), April 1995, Interim Remedial Measure Work Plan Tennessee Gas Pipeline Company Station 229, Eden, New York.
- Letter from BBL (Doody) to NYSDEC dated August 15, 1995, re: Modification to Remedial Design Work Plans for TGP Compressor Stations 229 and 237.
- Letter from New York State Department of Environmental Conservation (NYSDEC) (Moras) to TGP (Schaper) dated July 13, 1995, re: Approval of the Interim Remedial Measure Design Plan.
- Letter from BBL (Palmerton) to NYSDEC (Drumm) dated October 13, 1995, re: Modification to Drainline Grouting Procedures.

## **ATTACHMENTS**

Attachment 1

Attachment 2

### TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

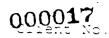
000016

229-BF01-5CS-001-01

ab Name: <u>Recra En<b>vi</b>ronmental</u> Contract: _			
ab Code: <u>RECNY</u>	: SDG N	o.: <u>229F1</u>	
atrix: (soil/water) <u>SOIL</u>	Lab Sample ID:	A5385802	-
ample wt/vol: 5.10 (g/mL) G	Lab File ID:	H7874.MSQ	<del></del>
evel: (low/med) <u>LOW</u>	Date Samp/Recv:	07/19/95	17/19/95
Moisture: not dec. 0.9 Heated Purge: Y	Date Analyzed:	07/20/95	
C Column: DB-624 ID: 0.53 (mm)	Dilution Factor:	1.00	
pil Extract Volume: (uL)	Soil Aliquot Vol	ume:	(uL)
	ONCENTRATION UNIT (ug/L or ug/Kg)		Q
74-87-3			$\frac{c}{c}$

11/1/95

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS



•					229-BF01+5CS-001-01
аb	Name:	Recra	<u>Environmental</u>	Contract:	 

ab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229F1

atrix: (soil/water) SOIL Lab Sample ID: A5385802

Eample wt/vol: 5.10 (g/mL) Lab File ID:  $\underline{\text{H7874.MSO}}$ 

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/19/95</u> <u>07/19/95</u>

Moisture: not dec. 0.9 Date Analyzed: 07/20/95

3C Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

oil Extract Volume: \_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_ (uL)

CONCENTRATION UNITS:

umber TICs fou**nd**: 4 (ug/L or ug/Kg) <u>UG/KG</u>

CAS NO.	Compound Name	RT	Est. Conc.	Q
2. 3.	UNKNOWN OXYGENATED COMPOUND CYCLOALKYL COMPOUND CYCLOALKYL COMPOUND ORGANOSILICON COMPOUND	3.85 10.18 12.68 21.98	8 5 6 . R <del>e</del>	J J BJ

## 11-28-45

# TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

## 0000**35**

Client No.

Lab Name: Recra Environmental Contract: \_\_\_\_\_\_\_

Lab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_\_ SDG No.: 229F1

Matrix: (soil/water) <u>SOIL</u> Lab Sample ID: <u>A5385802</u>

Sample wt/vol: 30.19 (g/mL) G Lab File ID: 23009X.MSQ

Level: (low/med) LOW Date Samp/Recv: 07/19/95 07/19/95

Moisture: 1.5 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/25/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup:  $(Y/N) \underline{Y} pH: \underline{7.4}$ 

	COMPOURIE	CONCENTRATION UN: (ug/L or ug/Kg)	•	0
CAS NO.	COMPOUND	(ug/L Of ug/kg/	<u>UG/ NG</u>	<del></del>
83-32-9	Acenaphthene		330	บ
	2,4-Dinitrophenol		810	A 0.7
100-02-7	4-Nitrophenol		810	U
	Dibenzofuran		46	J
	2,4-Dinitrotoluene		330	ľŪ
84-66-2	Diethylphthalate		330	[ប
	4-Chlorophenyl-phenyl ethe	r	330	U
86-73-7	Fluorene		130	J
	4-Nitroaniline		810	Ū
	4,6-Dinitro-2-methylphenol		810	Ŭ
86-30-6	N-Nitrosodiphenylamine		330	U
101-55-3	4-Bromophenyl-phenylether_		330	U
118-74-1	Hexachlorobenzene		330	U
87-86-5	Pentachlorophenol		810	ľŪ
85-01-8	Phenanthrene		590	
120-12-7	Anthracene		74	ŢŢ
86-74-8	Carbazole		3 5	J
84-74-2	Di-n-butylphthalate		330 <del>37</del>	[ <del>=</del> €
206-44-0	Fluoranthene		430	
1.00 00 0	D		320	J
85-68-7	Butylbenzylphthalate		330	[ Ü
91-94-1	3,3'-Dichlorobenzidine		330	U
	Benzo(a) anthracene		98	J
218-01-9	Chrysene		200	J
117-81-7	bis(2-Ethylhexyl)phthalate		330 <del>-57</del>	BJ U
	Di-n-octylphthalate		330	U
	Benzo(b) fluoranthene		330	បែ
	Benzo(k) fluoranthene		330	ĬÜ
	Benzo(a) pyrene		4 3	$\bar{z}$
	Indeno(1,2,3-cd)pyrene		330	Ü
	Dibenz(a,h)anthracene		330	Ü
	Benzo(q,h,i)perylene		330	tu
				1

#### TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

000<del>0</del>34%

229-BF01-5CS-001-01 Lab Name: Recra Environmental Contract: \_\_

Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

Matrix: (soil/water) <u>SOIL</u> Lab Sample ID: A5385802

Sample wt/vol: 30.19 (g/mL) G Lab File ID: 23009X.MSO

Level: (low/med) LOW Date Samp/Recv: 07/19/95 07/19/95

Moisture: 1.5 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/25/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
	Phenol		330	ŭ
111-44-4	bis(2-Chloroethyl) ether		330	Ū
95-57-8	2-Chlorophenol		330	U
1541-/3-1-	I, 3-Dichiloropenzene		330	U
106-46-7	1,4-Dichlorobenzene		330	U
95-50-1	1,2-Dichlorobenzene		330	ľŪ
95-48-7	2-Methylphenol		330	Ŭ
108-60-1	2,2'-oxybis(1-Chloropropane)	,	330	U
106-44-5	4-Methylphenol		330	U
621-64-7	N-Nitroso-di-n-propylamine		330	Ū
67-72-1	Hexachloroethane		330	Ū
98-95-3	Nitrobenzene		330	iti
	Isophorone		330	ប
88-75-5	2-Nitrophenol		330	ប
	2,4-Dimethylphenol		330	ាប
111-91-1	bis(2-Chloroethoxy)methane		330	10
120-83-2	2,4-Dichlorophenol		330	10
	1,2,4-Trichlorobenzene		330	บี
	Naphthalene	-	76	Ĵ
106-47-8	4-Chloroaniline		330	Ū
87-68-3	Hexachlorobutadiene		330	บ
:59-50-7	4-Chloro-3-methylphenol		330	Ū,
	2-Methylnaphthalene		330	Ū
177-47-4	Hexachlorocyclopentadiene		330	ti
	2,4,6-Trichlorophenol		330	Ü
	2,3,5-Trichlorophenol		810	155
91-58-7	2-Chloronaphthalene		330	1:
92-30-7	2-Nitroaniline		810	11
	Dimethylphthalate		330	17
	Acenaphthylene		330	111
205-96-8	<b>A</b> cenaphthylene <b>2</b> ,6 <b>-</b> Dinitrotoluene		330	1 - 7
	2,6-Dinitrotoldene			1
99-09-2	3-Nitroaniline		810	-

# TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

ე00036

229-BF01-5CS-001-01

ab Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

atrix: (soil/water) <u>SOIL</u> Lab Sample ID: <u>A5385802</u>

ample wt/vol: 30.19 (g/mL) G Lab File ID: 23009X.MSO

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/19/95</u> <u>07/19/95</u>

Moisture: 1.5 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/25/95

njection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

Number TICs found: 20 (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
	UNKNOWN ALKANE	6.40	670	J
2.	ETHYL METHYL BENZENE ISOMER	8.45	510	J
3.	UNKNOWN ALKANE	8.58	1400	J
J. 4.	CHLORINATED COMPOUND	9.30	<u> Я</u> - <del>3000-</del>	ਰਹ-
5.	DICHLOROCYCLOHEXANE ISOMER	10.12	R 970-	<del>  30</del>
5. 6.	UNKNOWN ALKANE	10.72	900	J
7.	UNKNOWN	12.73	990	J
, . 8 .	UNKNOWN	14.62	1300	J
9.	UNKNOWN	16.40	1800	J
10.	BENZENE DERIVATIVE	16.80	560	J
11.	UNKNOWN	17.23	290	J
12.	UNKNOWN	17.38	360	J
13.	UNKNOWN	18.07	1700	J
14.	UNKNOWN	19.65	1700	J
15.	UNKNOWN	21.15	1900	J
16.	UNKNOWN	22.07	410	J
17.	UNKNOWN	23.92	1000	J
18.	UNKNOWN	25.22	920	J
19.	UNKNOWN	26.08	170	J
20.	UNKNOWN	26.45	960	J



NYSDEC SAMPLE NO.

12/91

#### I INORGANIC ANALYSES DATA SHEET

Lab Name: RECRA_ENVI	RONMENTAL_INC	Contract: NY94-393	<del>101</del> 229-8F01-5CS-001-0
Lab Code: RECNY_	Case No.: 151SR	SAS No.:	SDG No.: 229F1
Matrix (soil/water):	SOIL_	Lab Sampl	e ID: 0581
Level (low/med):	LOW	Date Rece	eived: 07/ <b>19/9</b> 5
% Solids:	_98 <del>.5</del>		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

	Before:	BROWNYELLOW	Clarity Before: Clarity After:	CLEAR_	Texture: Artifacts:	
CL	B SAMPLE	ID:_A5385802- LE ID: 229-B	-CG000755 F01-5CS-001-01			-5" 9 5"
			FORM I - IN			

## 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SA 000055

L	0			00101
Lab Name: RECRA ENVIRON	Contract: N	194-393	1 = = -	NACT 33C
Lab Code: RECNY Case No.: 151SR	SAS No.: _	SDG	No.:	229F1
Matrix: (soil/water) <u>SOIL</u>	Lal	o Sample ID:	<u>A538</u>	5802
Sample wt/vol: $30.1$ (g/mL) G	Lal	File ID:		
% Moisture: <u>2</u> decanted: (Y/N	I) <u>N</u> Dat	te Received:	07/1	9/95
Extraction: (SepF/Cont/Sonc) S	ONC Dat	te Extracted	07/2	1/95
Concentrated Extract Volume:50	-			
Injection Volume: <u>1.00</u> (uL)	Dil	lution Factor	c:	1.00
GPC Cleanup: (Y/N) Y pH:	7.4 Su	lfur Cleanup	: (Y/N	I) <u>N</u>
CAS NO. COMPOUND	CONCENTRA (ug/L or	ATION UNITS: ug/Kg) <u>UG/K</u> (	3	Q
319-84-6alpha-BHC 319-85-7beta-BHC 319-86-8delta-BHC 58-89-9qamma-BHC (Li 76-44-8Aldrin 1024-57-3Heptachlor ep 959-98-8Bndosulfan I 60-57-1Dieldrin 72-55-94,4'-DDE 72-20-8	ndane)		1.77 1.77 1.77 1.77 1.77 1.77 1.77 1.77	מממממממממממממ ממ

12-5-15

### TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

229-BF01-5CS-002-01

Jab Name: <u>Recra Environmental</u> Contract: _			
ab Code: <u>RECNY</u>	: SDG	No.: 229F1	
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID:	A5385805	_
ample wt/vol: <u>5.04</u> (g/mL) <u>G</u>	Lab File ID:	<u>H7875.MSO</u>	
Level: (low/med) <u>LOW</u>	Date Samp/Recv	: 07/19/95	07/19/95
Moisture: not dec. 12.9 Heated Purge: Y	Date Analyzed:	07/20/95	
C Column: DB-624 ID: 0.53 (mm)			
soil Extract Volume: (uL)	Soil Aliquot V	olume:	(uL)
, · · · · · · · · · · · · · · · · · · ·	ONCENTRATION UN (ug/L or ug/Kg)		Q
74-87-3			מממממממממממממממממממממממממממממממממממממ

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

000019

Client No.

1.	ORGANOSILICON COMP	OUND-	-21-97	R -	<del>}_</del>   <del>3</del> -
CAS NO.	Compound N	ame	RT	Est. Conc.	Q
umber TICs fou <b>n</b> d:	1		NTRATION UN L or ug/Kg)	NITS: <u>UG/KG</u>	
oil Extract Volum	ne: (uL)	Soil	Aliquot V	/olume:	(uL)
GC Column: <u>DB-6<b>2</b>4</u>	ID: 0.53 (mm)	Dilt	ition Facto	or: <u>1.00</u>	
Moisture: not de	ec. <u>12.9</u>	Date	Analyzed:	07/20/95	
Level: (low/med)	LOW	Date	e Samp/Recv	7: <u>07/19/95</u>	07/19/95
pample wt/vol:	<u>5.04</u> (g/mL) <u>G</u>	Lab	File ID:	H7875.MS	2
katrix: (soil/w <b>a</b> te	er) <u>SOIL</u>	Lab	Sample ID:	A5385805	
Lab Code: RECNY	Case No.: <u>151SR</u>	SAS No.:	SDC	No.: 229F1	-
ab Name: <u>Recra E</u> r	vironmental Con	tract:		229-BF01-5CS-	-002-01
_				ומת מכוני	~ ~ ~ ~ -

#### TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

Client No.

229-BF01-5CS-002-01

ab Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229F1

Lab Sample ID: A5385805 atrix: (soil/water) <u>SOIL</u>

ample wt/vol: 30.38 (g/mL) G Lab File ID: 23013X.MSO

Date Samp/Recv: 07/19/95 07/19/95 Level: (low/med) LOW

Moisture: 11.9 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/26/95

injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNIT	S: <u>UG/KG</u>	Q
	Disnol		370	Ü
111-44-4	bis(2-Chloroethyl) ether		370	1 5
0 0	2-Chlorophenol	· · · · · · · · · · · · · · · · · · ·	370	Ü
55-57-0- 541-73-1	1,3-Dichloropenzene		370	1 0
200 46 7	1 4-Dichlorobenzene		370	Ü
100-40-7	1,2-Dichlorobenzene		370	u u
95-30-1-	2-Methylphenol		370	1 77
300 60-1	a alloyubis(1-Chioropropane)		370	บี
108-60-1	4-Methylphenol		370	Ü
TOO - 44 - 5	4-MethylphenolNontroso-di-n-propylamine		370	U
621-64-7	Hexachloroethane		370	_
5/-/2-1	Nitrobenzene		370	Ū
98-95-3	Isophorone		370	U
78-59-1	2-Nitrophenol		370	l U
	a A Dimothylphenol		370	10
105-6/-9	bis(2-Chloroethoxy) methane		370	U
111-91-1	2,4-Dichlorophenol		370	Ŭ
120-83-2	1,2,4-Trichlorobenzene		370	U
120-82-1	N-hthalane		370	Ū
91-20-3	Naphthalene		370	Ū
	4-Chloroaniline Hexachlorobutadiene		370	U
87-68-3	4-Chloro-3-methylphenol		370	Ü
59-50-7	4-CNIOIO-3-Methyrphenor		370	U
91-57-6	2-Methylnaphthalene Hexachlorocyclopentadiene		370	U
77-47-4	Hexachiolocyclopencadiche		370	U
88-06-2	2,4,6-Trichlorophenol		900	U
95-95-4	2,3,5-Trichlorophenol		370	U
91-58-7	2-Chloronaphthalene_		900	U
88-74-4	2-Nitroaniline		370	U
131-11-3	Dimethylphthalate		370	†ਹ
208-96-8	Acenaphthylene		370	tu
606-20-2	2,6-Dinitrotoluene		900	U
99-09-2	3-Nitroaniline			

# TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

### 000038

Client No.

229-BF01-5CS-002-C1

				229-BF01-5C5-002-C1
Lab	Name:	Recra Environmental	Contract:	

Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

Matrix: (soil/water) SOIL Lab Sample ID: A5385805

Sample wt/vol: 30.38 (g/mL) G Lab File ID: 23013X.MSO

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/19/95</u> <u>07/19/95</u>

Moisture: 11.9 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/26/95

injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.4

	CONCENTRATION UNITS:					
CAS NO.	COMPOUND	(ug/L or ug/Kg	(a) UG/KG	Q		
83-32-9	<b>A</b> ce <b>n</b> aphthene		370	U		
51-28-5	2,4-Dinitrophenol		900	.80J		
100-02-7	4-Nitrophenol		900	U		
132-64-9	Dibenzofuran		370	[ U		
	2,4-Dinitrotoluene		370	U		
84-66-2	Diethylphthalate		370	Ū		
7005-72-3	4-Chlorophenyl-phenyl eth	er	370	U		
86-73-7	Fluorene		370	Ū		
	4-Nitroaniline		900	Ū		
534-52-1	4,6-Dinitro-2-methylpheno	1	900	Ü		
	N-Nitrosodiphenylamine		370	įU		
101-55-3	4-Bromophenyl-phenylether		370	Ū		
118-74-1			370	Ū		
	Pentachlorophenol		900	Ü		
85-01-8	Phenanthrene		12	j		
	Anthracene		370	ប		
86-74-8	Carbazole		370	t		
	Di-n-butylphthalate		3704 <del>3</del> -	<u> </u>		
	Fluoranthene		370	įt		
129-00-0	<b>P</b> vrene		370	Ū		
85-68-7	Butylbenzylphthalate		13	j		
91-94-1	3,31-Dichlorobenzidine		370	ប		
56-55-3	Benzo(a) anthracene		370	Ū		
218-01-9	Chrvsene		370	İΰ		
117-81-7	bis(2-Ethylhexyl)phthalat	e	370 -60	اججا		
117-84-0	Di-n-octylphthalate		370	† U		
205-99-2	Benzo(b) fluoranthene		370	12		
	Benzo(k) fluoranthene		370	ប		
	<b>B</b> en <b>z</b> o(a) pyrene		370	tu		
	Indeno(1,2,3-cd)pyrene		370	tu		
53-70-3	Dibenz(a,h)anthracene		370	1::		
	Benzo(q,h,i)perylene		370	tu		
:						

#### TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

ഫ00039

Client No.

229-BF01-5CS-002-01

ab Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

Matrix: (soil/water) SOIL

Lab Sample ID: A5385805

Tample wt/vol: 30.38 (g/mL) G Lab File ID: 23013X.MSO

Level: (low/med) LOW

Date Samp/Recv: 07/19/95 07/19/95

Moisture: 11.9 decanted: (Y/N) N Date Extracted: 07/21/95

Soncentrated Extract Volume: 500 (uL) Date Analyzed: 07/26/95

injection Volume: 2.00 (uL)

Number TICs found: <u>19</u>

Dilution Factor: \_\_\_\_1.00

PC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/KG</u>

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND PRODUCT	6.77	R 660	<del>ADJ</del>
2.	UNKNOWN	7.42	R <del>680</del>	<del>DJ</del>
3.	CHLOROCYCLOHEXANOL ISOMER	9.27	R . <del>3400</del>	<del> ₽J-</del>
4.	DICHLOROCYCLOHEXANE ISOMER	10.12	R <del>1400-</del>	<del>-BJ</del>
5.	UNKNOWN	24.57	350	J
6.	UNKNOWN	24.75	960	J
7.	UNKNOWN	26.90	470	J
8.	UNKNOWN	27.17	180	J
9.	UNKNOWN PAH DERIVATIVE	27.43	360	J
10.	POLYCHLORINATED COMPOUND	28.48	260	J
11.	UNKNOWN	28.73	270	J
12.	POLYCHLORINATED COMPOUND	29.40	400	J
13.	UNKNOWN	29.78	960	J
14.	UNKNOWN ALCOHOL	30.83	1200	J
	UNKNOWN	32.88	560	J
15.	UNKNOWN ALKANE	36.88	240	J
16.	UNKNOWN ADICALLE	38.77	130	J
17.	1	39.33	200	J
18.	UNKNOWN	40.18	440	J
19.	UNKNOWN	40.10	440	13

000064 NYSDEC SAMPLE NO.

Date Received: 07/19/95

## 1 INORGANIC ANALYSES DATA SHEET

	<del>-20-</del>
ab Name: RECRA_ENVIRONMENTAL_INC Con	itract: NY94-393 229-BF01-565-662-6
ab Code: RECNY_	
atrix (soil/wa <b>ter):</b> SOIL_	Lab Sample ID: 0585

Concentration Units (ug/L or mg/kg dry weight): MG/KG

			1 1		
CAS No.	Analyte	Concentration	С	Q	M
<b>74</b> 29-90-5	Aluminum	11200	-	<del></del>	P ·
7440-36-0	Antimony		اخ	TUK	P-
<b>7440-</b> 38-2	Arsenic -	8.8			P-
<b>74</b> 40-39-3	Barium —	46.6	-		P-
7440-41-7	Beryllium	0.67	ו ט		P-
<b>7440-4</b> 3-9	Cadmium	1.1	<u>י</u>		P -
<b>74</b> 40-70-2	Calcium	1590		7 7	P
<b>74</b> 40-47-3	Chromium	11.2	-		P-
7440-48-4	Cobalt	6.8	B		P_
<b>74</b> 4 <b>0-</b> 50-8	Copper	35.9			P
<b>74</b> 39-89-6	Iron	20400			P_
<b>74</b> 3 <b>9-</b> 92-1	Lead	16.7			P_
<b>74</b> 3 <b>9-</b> 95-4	Magnesium	2120	_		P_
<b>74</b> 39-96-5	Manganese	729	_		P_
<b>74</b> 39-97-6	Mercury	0.06	_	7	CV
<b>74</b> 4 <b>0-</b> 02-0	Nickel	13.3			P_
<b>74</b> 4 <b>0-</b> 09-7	Potassium	964	B	J	P
<b>77</b> 82-49-2	Selenium_	0.90	υı	<del></del> ,	F_
<b>74</b> 4 <b>0-</b> 22-4	Silver	2.2	४	<u> </u>	P_
<b>74</b> 4 <b>0-</b> 23-5	Sodium	225	U	<del></del>	P_
<b>74</b> 40-28-0	Thallium_	0.90	IJ.	<u></u> \	F_
<b>74</b> 40-62-2	Vanadium_	18.1	_		P
<b>74</b> 4 <b>0-</b> 66-6	Zinc	97.2	_		P_
	Cyanide	1.0	Ü		
	Hexchrom_	0.22	است	<u> </u>	A_
	ļ ———.	· <del></del>	-		
			-		—
			-		<del></del>
	<del></del>	<del></del>	-		
	<del></del>	<del></del>	-	<del></del>	
		· <del></del> ;	-		
	l				

	Before: After:	BROWN YELLOW	Clarity Before: Clarity After:	CLEAR	Texture: Artifacts:	MEDIUM
bmmer LAE		ID: A5385805-	-CG000755			
			F0Z-5CS-002-01			
-			2010	·		
			DODM T TAT			

#### 1D PES**T**IC**I**DE ORGANICS **ANALYSIS** DATA SHEET

5CS00201 Lab Name: RECRA ENVIRON Contract: NY94-393 229-8701-565-01 Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1 Lab Sample ID: A5385805 Matrix: (soil/water) SOIL Sample wt/vol: 30.3 (g/mL) G Lab File ID: % Moisture: 12 decanted: (Y/N) N Date Received: 07/19/95 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 07/21/95 Concentrated Extract Volume: \_\_\_\_5000 (uL) Date Analyzed: 07/31/95 Dilution Factor: \_\_\_5.00 Injection Volume: <u>1.00</u> (uL) GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q COMPOUND CAS NO. 9.6 U 319-84-**6**-----alpha-BHC 9.6 U 319-85-**7----**-beta-BHC 9.6 U 319-86-**8**------delta-BHC 9.6 U 58-89-9-----gamma-BHC (Lindane) 9.6 U 76-44-8------Heptachlor\_\_\_\_\_ 9.6 U 309-00-2-----Aldrin 9.6 U 1024-57-3-----Heptachlor epoxide 9.6 U 959-98-8-----Endosulfan I 15 J 60-57-1------Dieldrin 260 72-55-9-----4,4'-DDE İυ 72-20-8-----Endrin 19 33213-65-9-----Endosulfan II 19 U R -84 <del>-P</del>-72-54-8------4,4'-DDD 19 ľŪ 1031-07-8-----Endosulfan sulfate 580 PJ 50-29-3-----4,4'-DDT 96 72-43-5-----Methoxychlor U 19 U 53494-70-5----Endrin ketone 19 U 7421-93-4-----Endrin aldehyde 9.6 U 5103-71-9-----alpha-Chlordane 9.6 U 5103-74-2-----gamma-Chlordane\_\_\_ 960 8001-35-2----Toxaphene U U 12674-11-2----Aroclor-1016 190 U 11104-28-2----Aroclor-1221 380 11141-16-5----Aroclor-1232 190 U U 53469-21-9-----Aroclor-1242 190 12672-2**9**-6-----Aroclor-1248 190 U 190 U 11097-69-1-----Aroclor-1254 11096-8**2**-5-----Aroclor-1260

12-5-15

Client No.

min Namo. Boara En	vironmental Contract: _		9-BF02-5CS-0	003-01
			N:- 0005	
Tab Code: RECNY	Case No.: <u>151SR</u> SAS No.	: SDG	NO.: <u>229Fl</u>	
atrix: (soil/water	r) <u>SOIL</u>	Lab Sample ID:	A5393301	-
Bample wt/vol:	<u>5.06</u> (g/mL) <u>G</u>	Lab File ID:	H7892 MSQ	<del></del>
evel: (low/med)	LOW	Date Samp/Recv:	07/24/95	7/24/95
Moisture: not de	c. <u>0.2</u> Heated Purge: <u>Y</u>	Date Analyzed:	07/25/95	
C Column: DB-6 <b>24</b>	ID: <u>0.53</u> (mm)	Dilution Factor	: 1.00	
	e: (uL)			(uL)
		ONCENTRATION UNI		
CAS NO. COM		(ug/L or ug/Kg)		Q
74-87-3 <b>C</b> hl	oromethane		10 10	ט
74-83-9 <b>Br</b> oi	momethane yl Chloride		10	Ü
75 00 3 <b>C</b> hl	oroethane		10	Ū
75-09-2 <b>M</b> et	oroethane hylene Chloride		10	บี
67-64-1 <b>Ac</b> e	tone		10	Ū
75-15-0 <b>C</b> ar	tone bon Disulfide -Dichloroethene		10	ับ
75-35-41,1	-Dichloroethene		10	ַ ט
75-34-3 <b>1</b> ,1	-Dichloroethane		10	U
540-59-01,2	-Dichloroethene (total)		10	Ŭ
67-66-3- <b>C</b> hl	oroform		10	U .
107-06 <b>-21</b> ,2	-Dichloroethane		10	# 07
78-93-3 <b>2</b> -B	utanone		10	1
71-55-6 <b>1</b> ,1	,1-Trichloroethane		10	Ū
56-23-5 <b>C</b> ar	bon Tetrachloride		10 10	ת ת
75-27-4 <b>B</b> ro	modichloromethane		10	ט
	-Dichloropropane		10	Ü
10061-01-5 <b>c</b> is	-1,3-Dichloropropene		10	บี
/9-01-6TY1	chloroetheneromochloromethane		10	บี
124-48-1 <b>D</b> 1D	romochioromethane	<del></del>	10	ט
[79-00-5 <b>1</b> ,1 71-43-2- <b>-B</b> en			. 10	Ü
=/1-43-2 <b>B</b> en	ns-1,3-Dichloropropene		10	Ū
10061-02-6 <b>-</b> 11a <b>]</b> 75-25-2 <b>-B</b> ro	moform		10	Ū
108-10-1 <b>B</b> IO	ethyl-2-pentanone		10	Ū
591-78-6 <b>2</b> -H	exanone		10	Ū
1127-18-4 <b>T</b> et	rachloroethene		10	U
108-88-3 <b>-</b>	uene		1	J
79-34-51,1	,2,2-Tetrachloroethane		10	Ŭ
	orobenzene		10	U
100-41-4 <b>E</b> th	yl Benzene		10	U
100-42-5 <b>-</b> 5ty	rene		10	U
[1330-20-7 <b>X</b> vl			10	Ū

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

				229-B	F02-5CS-0	03-01
ab Name: <u>Recra <b>E</b>nv</u> i	ironmental Con	tract:				
Jab Code: <u>RECNY</u>	Case No.: <u>151SR</u>	SAS No.:	S	DG No.	: <u>229F1</u>	
atrix: (soil/water)	SOIL	Lab	Sample I	D: <u>A</u>	5393301	-
ample wt/vol:	5.06 (g/mL) <u>G</u>	Lab	File ID:	<u>H</u>	7892.MSO	
evel: (low/med)	LOW	Dat	e Samp/Re	cv: <u>0</u>	7/24/95 C	7/24/95
Moisture: not dec.	0.2	Dat	e Analyze	d: <u>0</u>	7/25/95	
C Column: DB-624	ID: 0.53 (mm)	Dil	ution Fac	tor: _	1.00	
pil Extract Volume:	:(uL)	Soi	l Aliquot	Volum	e:	(uL)
umber TICs fou <b>nd</b> : _	_1		NTRATION L or ug/K			
CAS NO.	Compound N	ame	RT	Est	. Conc.	Q

ORGANOSILICON COMPOUND

21.98

# TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

DOUGLE 229-BF02-5CS-003-01

Ab Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

atrix: (soil/water) <u>SOIL</u> Lab Sample ID: <u>A5393301</u>

ample wt/vol: 30.22 (g/mL) G Lab File ID: Z23927.RR

evel: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/24/95</u> <u>07/24/95</u>

Moisture: 0.1 decanted: (Y/N) N Date Extracted: 07/27/95

oncentrated Extract Volume: 500(uL) Date Analyzed: 08/01/95

ijection Volume: 2.00(uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 11.2

		CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>UG/KG</u>	.Q	
08-95-2	Phenol		330	U	
111-44-4	bis(2-Chloroethyl) ether_		330	ַ	
	2-Chlorophenol		330	U	
	1,3-Dichlorobenzene		330	Ū	
106-46-7	1,4-Dichlorobenzene		330	Ū	
_95~ <b>50-</b> 1	1,2-Dichlorobenzene		330	Ŭ	
5-48-7	2-Methylphenol		330	Įυ	
108-60-1	2,2'-oxybis(1-Chloropropan	e)	330	Ū	
106-44-5	4-Methylphenol		330	Ū	
<b>3</b> 21-64-7	N-Nitroso-di-n-propylamine		330	Ū	
7-72-1	Hexachloroethane		330	Ū	
98-95-3	Nitrobenzene	·	330	U	
	Isophorone		330	שוֹ	
	2-Nitrophenol	***************************************	330	ប	
	2,4-Dimethylphenol		330	שו	
111-91-1	bis(2-Chloroethoxy) methane		330	U	
■ 20-83-2	2,4-Dichlorophenol		330	Ū	
	1,2,4-Trichlorobenzene		330	Ū	
	Naphthalene		330	Ū	
	4-Chloroaniline		330	Ū	
	Hexachlorobutadiene	· · · · · · · · · · · · · · · · · · ·	330	Ū	
9-50-7	4-Chloro-3-methylphenol		330	Ū	
	2-Methylnaphthalene		330	Ū	
	Hexachlorocyclopentadiene		330	tū	
	2,4,6-Trichlorophenol		330	Ü	
	2,3,5-Trichlorophenol		800	Ū	
	2-Chloronaphthalene		330	Ū	
	2-Nitroaniline		800	Ü	
	Dimethylphthalate		330	U	
121-11-3	Dimethylphthatate		330	17	
	Acenaphthylene		330	1 7	
06-20-2	2,6-Dinitrotoluene		800	77	
<b>■</b> 9-0 <b>9</b> -2	3-Nitroaniline		000	ļ U	

#### TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

0000470

229-BF02-5CS-003-01

ab Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

tatrix: (soil/water) SOIL Lab Sample ID: A5393301

ample wt/vol: 30.22 (g/mL) G Lab File ID: Z23927.RR

Level: (low/med) LOW Date Samp/Recv: 07/24/95 07/24/95

Moisture: 0.1 decanted: (Y/N) N Date Extracted: 07/27/95

loncentrated Extract Volume: 500(uL) Date Analyzed: 08/01/95

hjection Volume: 2.00(uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 11.2

CAS NO. COMPOUND		CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q	
CAS NO.	COMPOGND	(ug/I of ug/kg/	<u> </u>	<del></del>	
83- <b>32</b> -9	<b>A</b> ce <b>na</b> phthene	<u> </u>	330	U	
51-28-5	2,4-Dinitrophenol		800	U	
100-02-7	4-Nitrophenol		800	Ţ	
132-64-9	Dibenzofuran		330	ū	
	2,4-Dinitrotoluene		330	ļū	
84- <b>66-2</b>	Diethylphthalate		110	·J	
700 <b>5-72-</b> 3	Diethylphthalate 4-Chlorophenyl-phenyl eth Fluorene	er	330	<u>ַ</u> ע	
			330	U	
100-01-6	<b>4</b> -Nitroaniline		800	Ū	
534 <b>-</b> 52-1	4,6-Dinitro-2-methylpheno	1	800	U	
B6-30-6	N-Nitrosodiphenylamine		330	ļŪ	
101 <b>-</b> 55-3	4-Bromophenyl-phenylether		330	ľ	
118-74-1	Hexachlorobenzene		330	Ū	
87-86-5	Pentachlorophenol		800	Ū	
85-01-8	Phenanthrene		330	Ü	
	Anthracene		330	U	
	Carbazole		330	U	
84- <b>74</b> -2	Di-n-butylphthalate		330	U	
206-44-0	Fluoranthene		330	Ū	
129-00-0	Pvrene		330	U	
R5-68-7	Pyrene		330	U	
91-94-1	3,3'-Dichlorobenzidine		330	ַ	
	Benzo(a) anthracene		330	ט	
			330	Ū	
210-01-7 117- <b>9</b> 1-7	Chrysene bis(2-Ethylhexyl)phthalat	e	440	₽U	
117 PA 0 .	Di-n-octylphthalate		330	U	
TT/-04-0	Benzo(b) fluoranthene		330	U	
603-33-4	Benzo(k) fluoranthene		330	U	
KU/-U0-3	Ponzo (a) nyrene		330	של	
30-32-8- <del>-</del> -	Benzo(a)pyrene Indeno(1,2,3-cd)pyrene		330	Ū	
			330	FF UJ	
D3-70-3	Dibenz(a,h)anthracene		330	いいり	
191-24-2	Benzo(g,h,i)perylene				

111 \$ 495

# TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

000048

Client No.

b Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229F1

atrix: (soil/water) SOIL Lab Sample ID: A5393301

mple wt/vol: 30.22 (g/mL) G Lab File ID: Z23927.RR

evel: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/24/95</u> <u>07/24/95</u>

Moisture: 0.1 decanted: (Y/N) N Date Extracted: 07/27/95

encentrated Extract Volume: 500 (uL) Date Analyzed: 08/01/95

Ajection Volume: 2.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 11.2

CONCENTRATION UNITS:

umber TICs foun**d: <u>17</u> (ug/L or ug/Kg) <u>UG/KG</u>** 

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND. PROD.	4.10	R - <del>170</del>	ABJ
2.	UNKNOWN	4.35	R - <del>150-</del>	BJ_
3	UNKNOWN ALKANE	7.73	79	3
4.	UNKNOWN ALKANE	9.50	100	J
5.	UNKNOWN ALKANE	10.38	160	3
6.	UNKNOWN ALKANE	12.10	120	J
7.	UNKNOWN ALKANE	12.90	110	J
7. 8.	UNKNOWN ALKANE	13.68	110	J
9.	UNKNOWN ALKANE	15.17	200	J
10.	UNKNOWN ALKANE	15.85	180	J
11.	UNKNOWN ALKANE	16.52	190	J
12.	UNKNOWN ALKANE	17.17	170	] ]
13.	UNKNOWN ALKANE	17.80	200	J
14.	UNKNOWN ALKANE	18.40	200	J
15.	UNKNOWN ALKANE	18.98	140	J
16.	UNKNOWN ALKANE	19.55	97	J
17.	UNKNOWN ALKANE	20.12	76	J

N-24-45

NYSDEC SAMPLE NO.

#### INORGANIC ANALYSES DATA SHEET

		301
Lab Name: RECRA_ENVIRONMENTAL_INC	Contract: NY94-393	239-BF03-565-C03-C
Lab Code: RECNY Case No.: 151S	R SAS No.:	SDG No.: 229F1
Matrix (soil/water): SOIL	Lab Samp	le ID: 0586
Level (low/med): LOW	Date Rece	eived: 07/24/95

Level (low/med): LOW\_ \_99.9 ုံး Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

,	1				
CAS No.	Analyte	Concentration	С	Q	M
7429-90-5	Aluminum	193	-		<del>P</del>
7440-36-0	Antimony	1.9	<u>-</u> نن	_ N U.J	P-
7440-38-2	Arsenic Arsenic	0.97	U	<sup>1</sup> \- <u>-</u>	P-
1	Barium	3.9	U		P-
7440-39-3		0.58	1 - 1		P-
7440-41-7	Beryllium		U U	<del></del>	P-
7440-43-9	Cadmium	0.97	U	<del></del>	
7440-70-2	Calcium	220000	-	<u>_</u>	5_
7440-47-3	Chromium_	1.9	Ū	·	P
7440-48-4	Cobalt	1.9	U		P_
7440-50-8	Copper	0.97	U		P_
7439-89-6	Iron	818	_		P_
<b>7439-</b> 92-1	Lead	1.0	_		P_
<b>7439-</b> 95-4	Magnesium		_		P_
<b>7</b> 439-96 <b>-</b> 5	Manganese	55.0		E*_ <u>\</u>	P_
<b>7439</b> -97-6	Mercury	0.27	<u> </u>	<del></del>	CV
<b>7440</b> -02-0	Nickel	1.9	ับ		P_
7440-09-7	Potassium	460	В		P_
<b>7</b> 782-49-2	Selenium	0.79	U		F_
7440-22-4	Silver	1.9	U	工口社	5
744023-5	Sodium	325	В	-27	2
7440-28-0	Thallium	0.79	بنا		F
7440-62-2	Vanadium_	1.9	U		P_
7440-66-6	Zinc	24.2		N* (-)	P_
	Cyanide	0.99	-	-5-	C_
	Hexchrom	0.19	_ س	05	A <sup>-</sup>
<del></del>					-
			-		
			-		
			-		
			<b>-</b>	<del></del>	<del> </del> —
<del></del>			-		<del> </del> —
			<b>—</b> .		<del> </del> —
l			_		

	Before: After:	BROWN YELLOW	Clarity Clarity		CLEAR_	Texture: Artifacts:	
Comme: LA:		ID:_A5393301-	<b>CG0</b> 00755			1.7 49	
CL	IENT_SAME	LE_ID:_229-BF	02-5CS-003-	01			
			FORM	T - IN			<del></del>

#### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

PESTICIDE ORGANICS ANALIS	IC DAIR OILL			2 -565-003-kil
Lab Name: RECRA ENVIRON	Contract:	NY94-393		
Lab Code: RECNY Case No.: 151SR	SAS No.:	SDG	No.:	229F1
Matrix: (soil/water) SOIL	. I	Lab Sample ID:	<u>A539</u>	3301
Sample wt/vol: $30.0 \text{ (g/mL)}$		Lab File ID:	<u>·</u>	····
% Moisture: 0 decanted: (Y/N)	<u>N</u> I	Date Received:	07/2	4/95
Extraction: (SepF/Cont/Sonc) §0	ONC I	Date Extracted:	07/2	7/95
Concentrated Extract Volume: 500	00 (uL) I	Date Analyzed:	08/0	1/95
Injection Volume: 1.00 (uL)	I	Dilution Factor	:	1.00
GPC Cleanup: (Y/N) Y pH:.11	<u>L.2</u> S	Sulfur Cleanup:	(Y/N	i) <u>N</u>
CAS NO. COMPOUND		TRATION UNITS: or ug/kg) <u>UG/kC</u>		Q
319-84-6	oxide		3.3 3.3 1.7 1.7 70 33 67 33 33 33 33	ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם

# TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

## 000020

Client No.

ab Name: <u>Recra <b>E</b>n<b>vi</b>ronmental</u> Contract: _		9-BF01-5CS-0	004-01
		N- 00051	
ab Code: RECNY Case No.: 151SR SAS No.			
atrix: (soil/water) <u>SOIL</u>	Lab Sample ID:	A5385804	-
ample wt/vol: 5.08 (g/mL) G	Lab File ID:	H7876.MSO	
evel: (low/med) <u>LOW</u>	Date Samp/Recv:	07/19/95	7/19/93
Moisture: not dec. <u>5.7</u> Heated Purge: Y	Date Analyzed:	07/20/95	
C Column: DB-624 ID: 0.53 (mm)	Dilution Factor	1.00	
oil Extract Volume: (uL)	Soil Aliquot Vo	olume:	(uL)
	ONCENTRATION UNI		Q
74-87-3			

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

000021

1.		ORGANOSILICON COMP	OUND .	21.98	R	<u> </u>
CA	S NO.	Compound N	lame	RT E	st. Conc.	Q
jumber TI	Cs fou <b>nd</b> :			ATION UNITS	-	
bil Extra	act Vo <b>lu</b> me	e: (uL)	Soil A	liquot Volu	ume:	(uL)
Column	: DB-6 <b>24</b>	ID: 0.53 (mm)	Diluti	on Factor:	1.00	
Moisture	e: not <b>d</b> ec	5. <u>5.7</u>	Date A	malyzed:	07/20/95	
evel:	(low/med)	LOW	Date S	amp/Recv:	07/19/95 0	7/19/95
ample wt,	/vol:	$_{5.08}$ (g/mL) $_{G}$	Lab Fi	le ID:	H7876.MSQ	
atrix: (	soil/w <b>at</b> er	c) <u>SOIL</u>	Lab Sa	mple ID:	A5385804	
ab Code:	RECNY	Case No.: <u>151SR</u>	SAS No.:	_ SDG No	o.: <u>229F1</u>	
ab Name:	Recra En	vironmental Con	tract:			

## TEMNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

#### 000040

Client No.

Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

Matrix: (soil/water) <u>SOIL</u> Lab Sample ID: <u>A5385804</u>

Sample wt/vol: 30.36 (g/mL) G Lab File ID: 23010X.MSQ

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/19/95</u> <u>07/19/95</u>

Moisture: 6.4 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/25/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

		CONCENTRATION UNIT	`S:	
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG_	Q
108-95-2	Phenol		350	Ū
	-bis(2-Chloroethyl) ether		350	[U
	-2-Chlorophenol		350	ן טן
	-1,3-Dichlorobenzene		350	] U
106-46-7	-1,4-Dichlorobenzene		350	U
95-50-1	-1,2-Dichlorobenzene		350	] บ
95-48-7	-2-Methylphenol		350	[ U
108-60-1	-2,2'-oxybis(1-Chloropropane)		350	ַ ע
106-44-5	-4-Methylphenol		350	U
621-64-7	-4-Metnyiphenoi -N-Nitroso-di-n-propylamine		350	ן ט
67-72-1	-Hexachloroethane		350	U !
98-95-3	-Nitrobenzene		350	Ŭ :
78-59-1	-Isophorone		350	Ū
	-2-Nitrophenol		350	U
	-2,4-Dimethylphenol		350	Ū
111-91-1	-bis(2-Chloroethoxy) methane		350	U
120-83-2	-2,4-Dichlorophenol		350	U
120-82-1	-1,2,4-Trichlorobenzene		350	U
91-20-3			350	ן ט י
	-4-Chloroaniline		350	l U
	-Hexachlorobutadiene		350	ט
	-4-Chloro-3-methylphenol		350	ַ ט
	2-Methylnaphthalene		350	שו
	-Hexachlorocyclopentadiene		350	İυ
88-06-2	-2,4,6-Trichlorophenol		350	บับ
95-95-4	-2,3,5-Trichlorophenol		840	ŤŪ
191-58-7	-2-Chloronaphthalene		350	lū
88-74-4	2-Nitroaniline		840	ΙŪ
( = = = = =	Dimethylphthalate		350	ΙŪ
	Acenaphthylene		350	ΙŪ
	2,6-Dinitrotoluene		350	Ü
	-3-Nitroaniline		840	U
	J 112 02 04112 2 110			

## TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

### 000041

Client No.

ab Name: Recra Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

atrix: (soil/water) <u>SOIL</u> Lab Sample ID: <u>A5385804</u>

ample wt/vol: 30.36 (g/mL) G Lab File ID: 23010X.MSO

evel: (low/med) LOW Date Samp/Recv: 07/19/95 07/19/95

Moisture: 6.4 decanted: (Y/N) N Date Extracted: 07/21/95

oncentrated Extract Volume: 500(uL) Date Analyzed: 07/25/95

njection Volume: 2.00(uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 7.8

	CONCENTRATION UNI		
COMPOUND	(ug/L or ug/Kg)	<u>UG/KG</u>	Q
Acenaphthene		350	U _
2,4-Dinitrophenol			もいて
4-Nitrophenol			Ū
Dibenzofuran			U
2,4-Dinitrotoluene			U
Diethylphthalate	·		Į Ū
4-Chlorophenyl-phenyl	ether		Į U
Fluorene			Į <u>U</u>
4-Nitroaniline			<u>U</u>
4,6-Dinitro-2-methylp	phenol		U
N-Nitrosodiphenylamin	ie		Ü
4-Bromophenyl-phenyle	ther		U
Hexachlorobenzene			Ü
Pentachlorophenol			Ŭ
			[ U
			[ប
Carbazole		· ·	įŪ,
Di-n-butylphthalate			∖∋ಕ∪
Fluoranthene			IJ
<b>P</b> yrene			Ŭ
Butylbenzylphthalate	·		Ŭ
3,3'-Dichlorobenzidir	ne		Ŭ
			U
Chrysene			\U\
bis(2-Ethylhexyl)phth	nalate		1 <del>-20-</del> 0
<b>D</b> i-n-octylphthalate_			Ü
<b>B</b> enzo(b)fluoranthene			<u>U</u>
Benzo(k)fluoranthene			U 
Benzo(a)pyrene			Ū
<b>I</b> ndeno(1,2,3-cd)pyrer	ne		ļŭ
Dibenz(a,h)anthracene	=		jU
<b>B</b> en <b>z</b> o(g,h,i)perylene		350	[ U
	Acenaphthene2,4-Dinitrophenol4-NitrophenolDibenzofuran2,4-DinitrotolueneDiethylphthalate4-Chlorophenyl-phenylFluorene4,6-Dinitro-2-methylpN-Nitrosodiphenylamin4-Bromophenyl-phenyleHexachlorobenzenePentachlorophenolPhenanthreneCarbazoleDi-n-butylphthalateFluoranthenePyreneButylbenzylphthalateBenzo(a) anthraceneChrysenebis(2-Ethylhexyl) phthalateBenzo(b) fluorantheneBenzo(b) fluorantheneBenzo(a) pyrene	COMPOUND (ug/L or ug/Kg) Acenaphthene2,4-Dinitrophenol4-NitrophenolDibenzofuran2,4-DinitrotolueneDiethylphthalate4-Chlorophenyl-phenyl etherFluorene4-Nitrosaniline4,6-Dinitro-2-methylphenolN-Nitrosodiphenylamine4-Bromophenyl-phenyletherHexachlorobenzenePentachlorophenolPhenanthreneAnthraceneCarbazoleDi-n-butylphthalateFluorantheneButylbenzylphthalateButylbenzylphthalateBenzo(a) anthraceneChrysenebis(2-Ethylhexyl)phthalateBenzo(b) fluorantheneBenzo(a) pyreneIndeno(1,2,3-cd) pyrene	COMPOUND         (ug/L or ug/Kg)         UG/KG          Acenaphthene         350          2,4-Dinitrophenol         840

### TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

229-BF01-5CS-004-01

ab Name: Recra Environmental Contract:

Lab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229F1

Matrix: (soil/water) <u>SOIL</u>

Lab Sample ID: A5385804

Sample wt/vol: 30.36 (g/mL) G Lab File ID: 23010X.MSO

Level: (low/m**e**d) <u>LOW</u>

umber TICs fou**n**d: 20

Date Samp/Recv: 07/19/95 07/19/95

Moisture: 6.4 decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 07/25/95

injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/KG</u>

CAS NO.	Compound Name	RT	Est. Conc. Q
1.	CYCLOHEXENOL ISOMER	6.22	R 430 23
2.	CHLOROCYCLOHEXENE ISOMER	6.57	R 640-13J
3.	UNKNOWN	6.77	R 479-133
4.	UNKNOWN	7.42	R 780 BJ
5.	UNKNOWN	7.67	R 320 BJ
6.	CHLORINATED COMPOUND	9.35	R7800-13J
7.	UNKNOWN	9.87	R 240 BJ
8.	DICHLOROCYCLOHEXANE ISOMER	10.15	R4000-3J
9.	UNKNOWN	18.03	160 3
10.	UNKNOWN	19.62	210 1
11.	UNKNOWN ALKANE	21.12	330 J
12.	UNKNOWN	22.53	220 J
13.	UNKNOWN	23.88	260 J
14.	UNKNOWN	25.18	260 J
15.	UNKNOWN	26.42	270 J
16.	UNKNOWN	28.73	250 J
17.	UNKNOWN ACID	29.68	160 J
18.	UNKNOWN	29.83	250 J
19.	UNKNOWN HYDROCARBON	30.87	490 J
20.	UNKNOWN	31.88	210 J

and the second of the second o

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

229 - BFO 1 -5CS CCH-C1

12/91

ab Name: RECRA\_ENVIRONMENTAL\_INC.\_ Contract: NY94-393\_ b Code: RECNY\_ Case No.: 151SR SAS No.:

SDG No.: 229F1\_

trix (soil/water): SOIL\_ evel (low/med): LOW\_

Lab Sample ID: 0582

93.6

Date Received: 07/19/95

Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7429-90-5	Aluminum	7580	-		<u> </u>
7 <b>4</b> 4 <b>0-</b> 36-0	Antimony	2.1	.6	- X-U-Z	P_
7 <b>4</b> 4 <b>0-</b> 38-2	Arsenic	10.1			P
7 <b>4</b> 40-39-3	Barium —	42.2	₿	7	P_
7440-41-7	Beryllium	0.63	U		P_
<b>7440-</b> 43-9	Cadmium	1.1	U		P_
<b>74</b> 40-70-2	Calcium	26700	_	1 3	P
<b>74</b> 40-47-3	Chromium	9.3	[		P_
7 <b>4</b> 4 <b>0-</b> 48-4	Cobalt	7.4	B		P_
<b>7440-</b> 50-8	Copper	36.9	_		P_
<b>74</b> 39-89-6	Iron	22100	_	Ī	P_
<b>74</b> 3 <b>9-</b> 92-1	Lead	10.9	_		P_
<b>74</b> 3 <b>9-</b> 95-4	Magnesium		_		P_
<b>74</b> 39-96-5	Manganese	792	==		P_
<b>74</b> 39-97-6	Mercury	0.03	Ū		Č∆
<b>7440-</b> 02-0	Nickel	22.9	_		P-
<b>74</b> 4 <b>0-</b> 09-7	Potassium		-		F-
<b>7</b> 782-49-2	Selenium_	0.85	1	1— <del>14</del> —1	↓ <u>°</u> −
<b>74</b> 4 <b>0-</b> 22-4	Silver	2.1	¥		P
<b>7440-</b> 23-5	Sodium	218	B	- <del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</del>	
7440-28-0	Thallium_	0.85	1 -	7 — *** <u>~~</u>	P-
7440-62-2	Vanadium_	13.0	-	NET	P-
<b>7440-</b> 66-6	Zinc	1.1	Ū	— <del>**</del> = =	
	Cyanide	0.21	1 -	·	A-
	Hexchrom_		10	1	~-
	.		-		<del> </del>
	-		-		-
	-		<b>\-</b>		<b> </b>
	-	·	·		·
	-	.	· <del> </del>	ļ ———	1
	-		·	ļ <del></del>	· <del> </del>
	_	.	.	.	.

olor Before: Color After:	BROWNYELLOW	Clarity Before: Clarity After: C	LEAR_	Texture: Artifacts:	MEDIUM
omments:	 _I <b>D</b> :_ <b>A5</b> 385804-	CG000755		12-5-95	
CLIENT_SAM		02-5CS-004-01			
		FORM I - IN			

#### PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

	50000100
Lab Name: RECRA ENVIRON Contr	-5C800401 ract: NY94-393   229-6F01-5
Lab Code: RECNY Case No.: 151SR SAS	No.: SDG No.: 229F1
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: A5385804
Sample wt/vol: 30.3 (g/mL) G	Lab File ID:
% Moisture: 6 decanted: (Y/N) N	Date Received: 07/19/95
Extraction: (SepF/Cont/Sonc) <u>SONC</u>	Date Extracted: 07/21/95
Concentrated Extract Volume: 5000 (ul	) Date Analyzed: <u>07/29/95</u>
Injection Volume: <u>1.00</u> (uL)	Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.8	Sulfur Cleanup: (Y/N) N
	ONCENTRATION UNITS:  1g/L or ug/Kg) <u>UG/KG</u> Q
319-84-6	1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 3.5 U 3.5 U 3.5 U 3.5 U

12-5-9

# TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

	i i	773-5107-552-	000-01-6
ab Name: <u>Recra En<b>v</b>ironmental</u> Contract:			
ab Code: RECNY Case No.: 151SR SAS No.	.: SI	OG No.: 229F1	
atrix: (soil/water) <u>WATER</u>	Lab Sample II	): <u>A5385801</u>	
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	<u> H7872.MSQ</u>	
evel: (low/m <b>e</b> d) <u>LOW</u>	Date Samp/Red	v: <u>07/19/95</u>	07/19/95
Moisture: not dec Heated Purge: Y	Date Analyzed	i: <u>07/20/95</u>	
C Column: DB-624 ID: 0.53 (mm)	Dilution Fact	or:1.00	
oil Extract Volume: (uL)	Soil Aliquot	Volume:	(uL)
	CONCENTRATION U	INITS:	
	(ug/L or ug/Kg		Q
74-87-3Chloromethane 74-83-9Bromomethane 75-01-4Vinyl Chloride 75-00-3Methylene Chloride 75-09-2Methylene Chloride 67-64-1			מפטפסטטסטסטסססססססטסטטטטטטטטטטטטטטטטטטט

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

ah Nama: Dacra Fri	<u>vironmental</u> Contract:		229-BF01-5DB-0	05-01-
	Case No.: <u>151SR</u> SAS No		DG No.: 229F1	
atrix: (soil/w <b>a</b> te:	r) <u>WATER</u>	Lab Sample I	D: <u>A5385801</u>	-
ample wt/vol:	<u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	H7872.MSQ	
evel: (low/med)	LOW	Date Samp/Re	cv: <u>07/19/95</u> 0	7/19/95
Moisture: not de	c	Date Analyze	d: <u>07/20/95</u>	
C Column: DB-624	ID: <u>0.53</u> (mm)	Dilution Fac	tor: 1.00	
oil Extract Volume	e: (uL)	Soil Aliquot	Volume:	(uL)
umber TICs fou <b>n</b> d:		CONCENTRATION (ug/L or ug/K		
CAS NO.	Compound Name	RT	Est. Conc.	Q
1	INKNOWN	9 03	a	+

## TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

Client No.

229-BF01-5DB-005-01-RS

ab	Name:	Recra	Environmental	Contract:				7
ab	Code:	RECNY	Case No.: <u>151</u> 5	SR SAS No.:	SD	G No.:	229F1	

atrix: (soil/water) <u>WATER</u> Lab Sample ID: <u>A5385801</u>

ample wt/vol: 890.00 (g/mL) ML Lab File ID: Z23884.RR

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/19/95</u> <u>07/19/95</u>

Moisture: \_\_\_\_ decanted: (Y/N) N Date Extracted: 07/21/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/25/95

njection Volume: 2.00(uL) Dilution Factor: 1.00

EPC Cleanup: (Y/N) N pH: 7.0

		CONCENTRATION UNIT		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
108-95-2	Phenol		11	U
111-44-4	bis(2-Chloroethyl) ether		11	U
≟95-5 <b>7-</b> 8	2-Chlorophenol		11	Ŭ ·
541-73-1	1,3-Dichlorobenzene		11	[U
T106-46-7	1,4-Dichlorobenzene		11	Ŭ ,
95-50-1	1,2-Dichlorobenzene		11	U
	2-Methylphenol		11	U
108-60-1	2,2'-oxybis(1-Chloropropane)		11	U
106-44-5	4-Methylphenol		11	U
<u> </u>	N-Nitroso-di-n-propylamine		11	U
67-72-1	Hexachloroethane		11	U
	Nitrobenzene		11	] U
78-59-1	Isophorone		11	បែ
	2-Nitrophenol		11	ו יי
	2,4-Dimethylphenol		11	iu l
	bis(2-Chloroethoxy)methane		11	เบิ
	2,4-Dichlorophenol		11	บ
	1,2,4-Trichlorobenzene		11	י ט
	Naphthalene		11	ו ט
	4-Chloroaniline		11	Ŭ
	Hexachlorobutadiene		11	ן טן
59-50-7	4-Chloro-3-methylphenol		11	ן מן
	2-Methylnaphthalene		11	ן מן
	Hexachlorocyclopentadiene		11	U
	2,4,6-Trichlorophenol		11	ปั
	2,3,5-Trichlorophenol		28	<u>.</u>
	2-Chloronaphthalene		II	Ü
	2-Nitroaniline		28	Ū
	Dimethylphthalate		11	U
	Acenaphthylene		7 7	17
	2,6-Dinitrotoluene	-	11	17
	3-Nitroaniline		28	17
	J HILLOUILLIANC			ļ

### TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

#### 000044

Client No.

		•			229-BF01-5DB-005-01-	RS
ab 1	Name:	Recra	<u>Environmental</u>	Contract:		٠

Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

Matrix: (soil/water) WATER Lab Sample ID: A5385801

Sample wt/vol: <u>890.00</u> (g/mL) <u>ML</u> Lab File ID: <u>Z23884.RR</u>

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/19/95</u> <u>07/19/95</u>

Moisture: \_\_\_\_ decanted: (Y/N) N Date Extracted: 0.7/21/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/25/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

SPC Cleanup: (Y/N) N pH: 7.0

<del></del>		CONCENTRATION UNIT	S:	
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
83-32-9	Acenaphthene		11	Ü
	2,4-Dinitrophenol		28	TŪ
100-02-7	4-Nitrophenol		28	U
	Dibenzofuran		11	[ប
121-14-2	2,4-Dinitrotoluene		11	ប
<b>84-66-2</b>	Diethylphthalate		11	Ū
7005-72-3	4-Chlorophenyl-phenyl ether		11	U
<b>86-73-7</b>			11	U
100-01-6	4-Nitroaniline		28.	Ū
<b>5</b> 34- <b>5</b> 2-1	4,6-Dinitro-2-methylphenol_		28	U
	N-Nitrosodiphenylamine		11	U
〗101-55-3	4-Bromophenyl-phenylether		11	U
	Hexachlorobenzene		11	U
87-86-5	Pentachlorophenol		28	Ü
🗬 85-01-8	Phenanthrene		11	Ū
120-12-7	Anthracene		11	U
📕 86-74-8			11	U
	Di-n-butylphthalate		11	Ū
	Fluoranthene		11	U
129-00-0	Pyrene		11	U
85-68-7	Butylbenzylphthalate		11	U
	3,3'-Dichlorobenzidine		11	Ū
	Benzo(a)anthracene		11	U
218-01-9			11	Ū
	bis(2-Ethylhexyl)phthalate_		11	U
	Di-n-octylphthalate		11	[U ]
	Benzo(b) fluoranthene		11	[ U
207-08-9	Benzo(k)fluoranthene		11	U
	Benzo(a)pyrene		11	ļij
193-39-5	Indeno(1,2,3-cd)pyrene		11	IJ
	Dibenz(a,h)anthracene		11	[U
📕 191 <b>- 2</b> 4 - 2	Benzo(g,h,i)perylene		11	[ U
				<u> </u>

## TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

### 000045

R 3 BJ

6.17

Client No.

CAS NO.	Compound Name	RT	Est. Conc. Q
Number TICs fou <b>n</b> d:	<u>1</u>	ONCENTRATION UN (ug/L or ug/Kg)	NITS: UG/L
EPC Cleanup: (Y/N)	<u>N</u> pH: <u>7.0</u>		
injection Volum <b>e</b> :	2.00 (uL)	Dilution Facto	or: <u>1.00</u>
Concentrated Extract	Volume: <u>1000</u> (uL)	Date Analyzed	: 07/25/95
Moisture:	decanted: (Y/N) N	Date Extracted	d: <u>07/21/95</u>
Level: (low/med)	LOW	Date Samp/Recv	v: <u>07/19/95</u> <u>07/19/95</u>
Sample wt/vol:	890.00 (g/mL) ML	Lab File ID:	Z23884.RR
Matrix: (soil/water)	WATER	Lab Sample ID	: <u>A5385801</u>
Lab Code: <u>RECNY</u> Ca	ase No.: <u>151SR</u> SAS No.	: SDC	3 No.: 229F1
ab Name: <u>Recra Envi</u>	ronmental Contract: _		573-BL01-2DB-002-01-

1.

UNKNOWN

11-29-95

#### NYSDEC-ASP

INORGANIC	ANALYSES	DATA	SHEET

NYSDE	C SAMPLE	7.10

<b>-</b>			1
			501
Lab Name: RECRA_ENVI	RONMENTAL_INC	Contract: NY94-393	229-BFO1-50B-005-01-8
_Lab Code: RECNY_	Case No.: 151SR	SAS No.:	SDG No.: 229F1
Matrix (soil/water):	WATER	Lab Sampl	e ID: 0611
Level (low/med):	LOW	Date Rece	ived: 07/19/95
	<u>,</u>		, , , , ,

Concentration Units (ug/L or mg/kg dry weight):  $UG/L_{\perp}$ 

CAS No.	Analyte	Concentration	С	o	М
7782-49-2 7440-22-4 7440-23-5 7440-28-0 7440-62-2	Analyte  Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium	Concentration  200 10.0 5.0 20.0 3.0 5.0 1000 10.0 10.0 5.0 40.0 3.0 0.20 10.0 10.0 10.0 10.0 10.0 10.0 10	ם מנו נו מו מו מו מו מו מו מו מו מו מו מו מו מו		
7440-28-0	Thallium_	5.0	U U		P_

			Clarity Clarity			Texture:	
Commen	• • •	D: <b>A</b> 5385801-CG0					
		E ID: 229-BF01-		01-RS			
RED!	IGESTION_	NUMBER: 0863	D 8/10/95		······································		_
			رکیہ	0			
•	-	<del></del>	FORM	1 T - TN			_

229-BFG1-50B-00561-R

### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

5¢B00501-Lab Name: RECRA ENVIRON Contract: NY94-393 D 8/10/95 ima Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1 Lab Sample ID: A5385801 Matrix: (soil/water) WATER Sample wt/vol: 1000 (g/mL) ML Lab File ID: % Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_ Date Received: 07/19/95 Date Extracted: 07/21/95 SEPF Extraction: (SepF/Cont/Sonc) Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/28/95 Dilution Factor: \_\_\_1.00 Injection Volume: 1.00 (uL) GPC Cleanup: (Y/N) N : pH: \_7.0 Sulfur Cleanup: (Y/N) Y CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L COMPOUND CAS NO. 0.050 U 319-84-6-----alpha-BHC 0.050 U 319-85-7-----beta-BHC 319-86-**8**-----delta-BHC 0.050 U 0.050 U 58-89-9------qamma-BHC (Lindane) 0.050 U 76-44-8------Heptachlor\_\_\_\_ 0.05010 309-00-2-----Aldrin 1024-57-3-----Heptachlor epoxide 0.050 U 0.050 T 959-98-**8----**-Endosulfan I\_\_\_\_\_ 0.10 U 60-57-1------Dieldrin 0.10 U 72-55-9------4,4'-DDE 0.10[U 72-20-8-----Endrin 0.10 U 33213-65-9----Endosulfan II 0.10 0 72-54-8-----4,4'-DDD 0.10 U 1031-07-8-----Endosulfan sulfate 0.10 0 50-29-3------4,4'-DDT 0.5010 72-43-5------Methoxychlor 0.10 0 53494-70-5---- Endrin ketone 0.10 U 7421-93-4-----Endrin aldehyde\_\_\_\_\_ 0.050 ] U 5103-71-9-----alpha-Chlordane 0.05010 5103-74-2----gamma-Chlordane\_\_\_\_\_\_ 5.0 U 8001-35-2----Toxaphene 1.0 U 12674-11-2----Aroclor-1016 2.0 U 11104-28-2----Aroclor-1221 1.0 U 11141-16-5-----Aroclor-1232 1.0 0 53469-21-9----Aroclor-1242 1.0 0 12672-29-6-----Aroclor-1248 1.010 11097-69-1----Aroclor-1254 1.0 U 11096-82-5----Aroclor-1260

101/10/15

## TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

### 000028

ab Name: <u>Recra En<b>v</b>ironmental</u> Contract: _		9-BF02-5DB	-006-01-
ab Code: <u>RECNY</u>	: SDG	No.: 229F1	-
Matrix: (soil/water) WATER	Lab Sample ID:	A5393302	<del></del> .
Sample wt/vol: 5.00 (g/mL) ML	Lab File ID:	H7891.MS	0
Level: (low/med) <u>LOW</u>	Date Samp/Recv:	07/24/95	07/24/95
Moisture: not de <b>c</b> Heated Purge: Y	Date Analyzed:	07/25/95	
GC Column: DB-624 ID: 0.53 (mm)	Dilution Factor	: 1.00	
oil Extract Volume: (uL)	Soil Aliquot Vo	olume:	(uL)
	ONCENTRATION UNI		Q
74-87-3			: a a a a a a a a a a a a a a a a a a a

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

Tah Name Decra Fra	vironmental Contract		229	9-BF02-5DB-0	006-01-
	Case No.: <u>151SR</u> SAS		SDG N	lo.: <u>229F1</u>	
Matrix: (soil/wate	c) <u>WATER</u>	Lab Sample	ID:	A5393302	_
Sample wt/vol:		Lab File II	):	H7891.MSQ	
Level: (low/med)	LOW	Date Samp/F	Recv:	07/24/95	7/24/95
Moisture: not de	·	Date Analyz	ed:	07/25/95	
GC Column: <u>DB-6<b>2</b>4</u>	ID: 0.53 (mm)	Dilution Fa	ictor:	1.00	
Soil Extract Volume	e: (uL)	Soil Alique	t Vol	.ume:	(uL)
Number TICs fou <b>n</b> d:	1	CONCENTRATION (ug/L or ug/		<del>-</del> ·	
CAS NO.	Compound Name	RT	E	Sst. Conc.	Q
	ORGANOSILICON COMPOUND	21.95	;	0 9	1

## TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

Client No.

ab Name: <u>Recra Envi</u>	ronmental Contract:		-BF02-5DB-006-01-
ab Code: RECNY Ca	ase No.: <u>151SR</u> SAS No.:	: SDG No	o.: <u>229F1</u>
<pre>!atrix: (soil/water)</pre>	WATER	Lab Sample ID:	A5393302
ample wt/vol:	1000.0 (g/mL) ML	Lab File ID:	Z23921.RR
evel: (low/med)	LOW	Date Samp/Recv:	07/24/95 07/24/95
Moisture:	decanted: (Y/N) N	Date Extracted:	07/27/95
oncentrated Extract	Volume: 1000(uL)	Date Analyzed:	07/28/95
njection Volum <b>e:</b>	_2.00(uL)	Dilution Factor:	1.00

PC Cleanup: (Y/N) N pH: 7.0

	CONCENTRATION UNITS:				
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q	
108-95-2			10	U	
<u>.</u> 111-44-4	bis(2-Chloroethyl) ether		10	ប	
95 <b>-57-</b> 8	2-Chlorophenol		10	טל	
■541 <b>-7</b> 3-1	1,3-Dichlorobenzene		10	ט	
106-46-7	1.4-Dichlorobenzene		10	ט	
95-50-1	1,2-Dichlorobenzene		10	បៃ	
95-48-7	2-Methylphenol		10	ט	
~108-60-1	2,2'-oxybis(1-Chloroprop	pane)	10	ľυ	
_106-44-5	4-Methylphenol		10	បែ	
621-64-7	N-Nitroso-di-n-propylami	ne	10	U	
<del>-</del> 67 <b>-72-1</b> -	Hexachloroethane		10	Ū	
_98 <b>-95-</b> 3	Nitrobenzene		10	Ū	
78 <b>-59-1</b>	Isophorone		10	ប	
88-75-5	2-Nitrophenol		10	U	
<b>~</b> 105 <b>~6</b> 7 <b>~</b> 9 <b>~~~</b>	2,4-Dimethylphenol		10	ט	
<b>-</b> 111-91-1	bis(2-Chloroethoxy) metha	ine	10	Ü	
120-83-2	2,4-Dichlorophenol		10	បៃ	
120-82-1	1,2,4-Trichlorobenzene_		10	ט	
91-20-3	Nanhthalana		10	Ü	
106-47-8	4-Chloroaniline		10	ប	
	Hexachlorobutadiene		10	Ū	
59 <b>-50-7</b>	4-Chloro-3-methylphenol_		10	បែ	
<b>-</b> 91 <b>-57-</b> 6	2-Methylnaphthalene		10	ប	
77-47-4	Hexachlorocyclopentadien	ie	10	1. B (1.7	
~88 <b>-06-</b> 2	2,4,6-Trichlorophenol		10	U	
_95 <b>-95-4</b> -	2,3,5-Trichlorophenol		25	ט	
91-58-7	2-Chloronaphthalene	Ì	10	Ū	
<b>3</b> 8-74-4	2-Nitroaniline	1	<b>2</b> 5	ט	
131-11-3	Dimethylphthalate		10	ט	
208 <b>-9</b> 6-8	lconaphthulono		10	ប៉	
606 <b>-2</b> 0-2	2,6-Dinitrotoluene		10	Ū	
99 <b>-09-2</b>	3-Nitroaniline		25	Ū	

Mit 10-95

## TENNECO GAS -ASP91-2 - SEMIVOLATILES -ANALYSIS DATA SHEET

#### 000053

•	229	-BF02-5DB-006-01- 85
ab Name: Recra Environmental Contract: _		
ab Code: RECNY Case No.: 151SR SAS No.	: SDG N	o.: <u>229F1</u>
atrix: (soil/water) <u>WATER</u>	Lab Sample ID:	A5393302
ample wt/vol: 1000.0 (g/mL) ML	Lab File ID:	Z23921.RR
evel: (low/med) <u>LOW</u>	Date Samp/Recv:	07/24/95 07/24/95
Moisture: decanted: (Y/N) N	Date Extracted:	07/27/95
oncentrated Extract Volume: 1000(uL)	Date Analyzed:	07/28/95
njection Volume: 2.00(uL)	Dilution Factor:	1.00
PC Cleanup: (Y/N) N pH: 7.0		

		CONCENTRATION UN		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
B3-32-9	Acenaphthene	:	10	U
	2,4-Dinitrophenol		25	せいゴ
	4-Nitrophenol		25	U
	Dibenzofuran		10	U
	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		10	Įυ
	4-Chlorophenyl-phenyl ether		10	Ŭ
<b>86-73-</b> 7			10	U
	4-Nitroaniline		25	U
	4,6-Dinitro-2-methylphenol_		25	A02
36-30 <b>-</b> 6	N-Nitrosodiphenylamine		10	Ŭ
101-55-3	4-Bromophenyl-phenylether		10	Ŭ
	Hexachlorobenzene		10	ַ ע רַ
87-86-5	Pentachlorophenol		25	U
-35-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	ַ ט
86-74-8			10	U
B4-74-2	Di-n-butylphthalate		10	ַ ט
206-44-0	Fluoranthene		10	U
-129-00-0	Pvrene		10	U
35 <b>-68-7</b> -	Butylbenzylphthalate		10	[U _
91-94-1	3,3'-Dichlorobenzidine		10	A 02
56-55-3	Benzo(a) anthracene		10	Ŭ
218-01-9	Chrysene	ļ	10	U
117-81-7	bis(2-Ethylhexyl)phthalate		10	U
117-84-0	Di-n-octylphthalate		10	Ŭ
205-99-2	Benzo(b) fluoranthene		10	Ū
	Benzo(k) fluoranthene		10	U
50-32-8			10	U
193-39-5	Indeno(1,2,3-cd)pyrene	•	10	U
53-70-3	Dibenz(a,h)anthracene		10	U
191-24-2	Benzo(g,h,i)perylene		10	Ū

## TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

000054

Client No.

ab Name: <u>Recra Envi</u>	ronmental Contract: _		9-BF02-5DB-006-01-
ab Code: <u>RECNY</u> C	case No.: <u>151SR</u> SAS No.	: SDG	No.: 229F1
atrix: (soil/water)	WATER	Lab Sample ID:	A5393302
ample wt/vol:	1000.0 (g/mL) ML	Lab File ID:	Z23921.RR
evel: (low/med)	TOM	Date Samp/Recv:	07/24/95 07/24/95
Moisture:	decanted: (Y/N) N	Date Extracted:	07/27/95
oncentrated Extract	: Volume: 1000 (uL)	Date Analyzed:	07/28/95
njection Volume:	2.00 (uL)	Dilution Factor	:1.00
PC Cleanup: (Y/N)	<u>N</u> pH:7.0		
umber TICs found: _		ONCENTRATION UNI (ug/L or ug/Kg)	
CAS NO.	Compound Name	RT	Est. Conc. Q

11-29-95

#### NYSDEC-ASP

### INORGANIC ANALYSES DATA SHEET

AARDEC	SAMPLE	NTO
74 TODEC	SETTE	$-1$ N $\odot$

					<del>601</del>
ab	Name:	RECRA	ENVIRONMENTAL_INC	Contract: NY94-393_	1229 -BF02 -5DB-006-01-BS
ab	Code:	RECNY			SDG No.: 229F1

Lab Sample ID: 0612 Date Received: 07/24/95

LOW\_\_\_0.0 Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

CAS No.	Analyte	Concentration	c.	Q	M
7429-90-5	Aluminum	200	Ū	<del></del>	P
7440-36-0	Antimony	10.0			P-
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	20.0	1		P
7440-41-7	Beryllium	3.0	U.		P_ P
7440-43-9	Cadmium	5.0	Ü		P-
<b>7440</b> -70-2	Calcium	3060	В		P_
<b>7</b> 440-47-3	Chromium	10.0	U.		P
7440-48-4	Cobalt -	10.0	U		P P
<b>7440</b> -50 <b>-</b> 8	Copper	5.0	ប		P
<b>7</b> 439-89-6	Iron	40.0	U		P_
<b>7</b> 439-92-1	Lead	3.0	U		P_
<b>7</b> 4 <b>39</b> -95-4	Magnesium	300			P_
<b>7439</b> -96 <b>-</b> 5	Manganese	5.0			P_
<b>7</b> 439-97-6	Mercury	0.20	沙	<u> </u>	C∇
7440-02-0	Nickel	10.0	U		P_
<b>7440</b> -09 <b>-</b> 7	Potassium	2000			P_
<b>7</b> 78 <b>2-</b> 49-2	Selenium_	4.0	U	M ( )	F_
<b>7</b> 440-22-4	Silver	10.0			P_
<b>7440</b> -23-5	Sodium	1000	1 1		P_
<b>7440</b> -28-0	Thallium_	5.0	Ŭ		P_
<b>7</b> 440 <b>-</b> 62-2	Vanadium_	10.0	U.		P_
7440-66-6	Zinc	54.4	_		P
	Cyanide		:		NR
	Hexchrom_	10.0	6		A_
			_		ļ ļ
			_		l
	·	ļ ————	_		
			<u> </u>	<del></del>	
			_	<del></del>	<del>   </del>
			_		
			_	l	l l

		COLORLESS COLORLESS	Clarity Clarity			Texture: Artifacts: _	
emmer זאז		ID: <b>A</b> 53 <b>933</b> 02-	<b>SG</b> 000756				
		LE ID: 229-BF		-01-RS			
, REI	DIGESTION	_ <b>N</b> UMBER:_0862			-		
<del></del>			EODA	M T TAT			

### PESTICIDE ORGANICS ANALYSIS DATA SHEET

229 - BFOZ - 5D BECCONE.

ab Name: <u>RECRA_ENVIRON</u>	NY94-393	
ab Code: RECNY Case No.: 151SR SAS No.:	: SDG No.:	229F1_
atrix: (soil/water) WATER	Lab Sample ID: A53	93302
Sample wt/vol: 1000 (g/mL) ML	Lab File ID:	
Moisture: decanted: (Y/N)	Date Received: 07/	24/95
xtraction: (SepF/Cont/Sonc) SEPF	Date Extracted: 07/	28/95
oncentrated Extract Volume: 10000 (uL)	Date Analyzed: 07/	29/95
njection Volum <b>e</b> : <u>1.00</u> (uL)	Dilution Factor:	1.00
PC Cleanup: (Y/N) N pH: 7.0	Sulfur Cleanup: (Y/	N) <u>Y</u>
CONCERCAS NO. COMPOUND (ug/L	NTRATION UNITS: or ug/Kg) UG/L	Q
319-84-6	0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	तित्तत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत्वत

-11-5-47 12-5-47

## TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

### 000026

Client No.

229-BF02-5CS-007-01 ab Name: Recra Environmental Contract: Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1 (atrix: (soil/water) SOIL Lab Sample ID: A5393303 Sample wt/vol: 5.03 (g/mL) G Lab File ID: H7893.MSOlevel: (low/med) LOW Date Samp/Recv: 07/24/95 07/24/95 Moisture: not dec. <u>6.8</u> Heated Purge: Y Date Analyzed: <u>07/25/95</u> GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: \_\_\_\_1.00 Soil Aliquot Volume: \_\_\_\_\_ (uL) oil Extract Volume: \_\_\_\_ (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q 74-87-3----**C**hloromethane 11 . 11 74-83-9----**B**romomethane\_\_\_\_\_\_ 75-01-4-----Vinyl Chloride\_\_\_\_\_ 11 75-00-3-----Chloroethane 11 75-09-2----Methylene Chloride 11 Ü 11 67-64-1-----**A**ce**to**ne 75-15-0-----Carbon Disulfide 11 75-35-4-----**1**,1-Dichloroethene\_\_\_\_\_\_ IJ 11 11 75-34-3-----**1**,1-Dichloroethane\_\_ 540-59-0-----1,2-Dichloroethene (total)\_\_\_\_ 11. U 11 U 67-66-3----**C**hloroform 107-06-2----1, 2-Dichloroethane 11 でいま 78-93-3---**--2**-B**u**tanone 11 71-55-6----**1**,1,1-Trichloroethane\_\_\_\_\_ 11 56-23-5-----Bromodichloromethane U 11 11 78-87-5----**1**,2-Dichloropropane\_\_\_\_\_ 11 10061-01-5----cis-1,3-Dichloropropene\_\_\_\_\_ 11 11 79-01-6----**T**richloroethene 11 124-48-1----Dibromochloromethane 79-00-5-----**1**,1,2-Trichloroethane 11 71-43-2----**B**enzene 10061-02-6---**t**rans-1,3-Dichloropropene 11 U 11 11 U 75-25-2----**B**ro**m**oform 11 108-10-1----**4**-Methyl-2-pentanone 11 U 591-78-6---**2**-Hexanone 127-18-4----Tetrachloroethene 11 U 108-88-3----**T**oluene 79-34-5-----**1**,1,2,2-Tetrachloroethane\_\_\_\_\_ 108-90-7----**C**hlorobenzene 100-41-4----Ethyl Benzene 11 100-42-5----**S**tyrene\_\_\_\_ 11 1330-20-7----**X**ylenes (total)

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

### 000027

umber TICs fou <b>n</b> d:	0		RATION UNITS or ug/Kg) -		
oil Extract Vo <b>l</b> ume	e: (uL)		Aliquot Volu		(uL)
C Column: <u>DB-6<b>2</b>4</u>	ID: <u>0.53</u> (mm)	Diluti	on Factor:	1.00	
Moisture: not de <b>c</b>	6.8	Date A	Analyzed:	07/25/95	
level: (low/med)	LOW	Date S	Samp/Recv:	07/24/95	07/24/95
ample wt/vol:	5.03 (g/mL) <u>G</u>	Lab Fi	le ID:	H7893.MSC	)
atrix: (soil/water	SOIL	Lab Sa	ample ID:	A5393303	
ab Code: RECNY	Case No.: <u>151SR</u>	SAS No.:	_ SDG No	o.: <u>229F1</u>	
ab Name: <u>Recra Env</u>	rironmental Con	tract:		·BF02-5CS-	

#### TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

000049

Client No.

229-BF02-5CS-007-01 Lab Name: Recra Environmental Contract: Lab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1 Lab Sample ID: A5393303 fatrix: (soil/water) SOIL Fample wt/vol: 30.27 (g/mL) G Lab File ID: Z23928.RR Date Samp/Recv: 07/24/95 07/24/95 Level: (low/med) LOW Moisture: 7.1 decanted: (Y/N) N Date Extracted: 07/27/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 08/01/95

injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

TO THE STATE OF TH	1 /- / /**		
CAS NO. COMPOUND	(ug/L or ug/Kg)	UG/KG_	Q
108-95-2 <b>P</b> he <b>n</b> ol		350	U
111-44-4bis(2-Chloroethyl) ether		350	U
95-57-8 <b>2</b> -Chlorophenol		350	Ū
541-73-1 <b>1</b> ,3-Dichlorobenzene		350	Ū
106-46-7 <b>1</b> ,4-Dichlorobenzene		350	U
95-50-1 <b>1</b> ,2-Dichlorobenzene		350	U
95-48-7 <b>2</b> -Methylphenol		350	U
108-60-12, 2'-oxybis(1-Chloropropane)		350	U
106-44-5 <b>4</b> -Methylphenol		350	U
621-64-7N-Nitroso-di-n-propylamine		350	U
67-72-1 <b>H</b> ex <b>a</b> chloroethane		350	U
98-95-3Nitrobenzene		350	U
78-59-1Isophorone		350	U
88-75-5 <b>2-Ni</b> trophenol		350	U
105-67-9 <b>2</b> ,4-Dimethylphenol		350	U
111-91-1bis (2-Chloroethoxy) methane		350	Ū
120-83-2 <b>2</b> ,4-Dichlorophenol		350	Ū
120-82-1 <b>1</b> ,2,4-Trichlorobenzene		350	U
91-20-3Naphthalene		350	U
106-47-84-Chloroaniline		350	Ŭ
87-68-3Hexachlorobutadiene		350	U
59-50-74-Chloro-3-methylphenol		350	U
91-57-62-Methylnaphthalene		350	U
77-47-4Hexachlorocyclopentadiene_		350	Ū
88-06-22,4,6-Trichlorophenol		350	U
95-95-42,3,5-Trichlorophenol		850	Ü
91-58-72-Chloronaphthalene		350	Ū
88-74-42-Nitroaniline		850	U
131-11-3Dimethylphthalate		<b>3</b> 50	· [U
208-96-8 <b>A</b> cenaphthylene		350	Ū
606-20-2 <b>2</b> ,6-Dinitrotoluene		350	ับ
99-09-2 <b>3-Ni</b> troaniline		850	U

## TENNECO GAS ASP91-2 - SEMIVOLATILES ANALYSIS DATA SHEET

#### 000050

Client No.

ab Name: Recra\_Environmental Contract:

ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229F1

atrix: (soil/water) SOIL Lab Sample ID: A5393303

atrix: (soil/water) SOIL Lab Sample ID: A5393303

ample wt/vol: 30.27 (g/mL) G Lab File ID: Z23928.RR

evel: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/24/95</u> <u>07/24/95</u>

Moisture: 7.1 decanted: (Y/N) N Date Extracted: 07/27/95

oncentrated Extract Volume: 500(uL) Date Analyzed: 08/01/95

njection Volume: 2.00(uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.7

CAS NO.       COMPOUND       (ug/L or ug/Kg)       UG/KG         83-32-9Acenaphthene       350       U         51-28-52,4-Dinitrophenol       850       U         100-02-74-Nitrophenol       850       U         132-64-9Dibenzofuran       350       U         121-14-22,4-Dinitrotoluene       350       U         84-66-2Diethylphthalate       350       U         7005-72-34-Chlorophenyl-phenyl ether       350       U         36-73-7Fluorene       350       U	Q
51-28-52,4-Dinitrophenol       850       U         100-02-74-Nitrophenol       850       U         132-64-9Dibenzofuran       350       U         121-14-22,4-Dinitrotoluene       350       U         84-66-2Diethylphthalate       350       U         7005-72-34-Chlorophenyl-phenyl ether       350       U	
100-02-74-Nitrophenol       850       U         132-64-9Dibenzofuran       350       U         121-14-22,4-Dinitrotoluene       350       U         84-66-2Diethylphthalate       350       U         7005-72-34-Chlorophenyl-phenyl ether       350       U	
132-64-9Dibenzofuran       350       U         121-14-22,4-Dinitrotoluene       350       U         84-66-2Diethylphthalate       350       U         7005-72-34-Chlorophenyl-phenyl ether       350       U	
121-14-22,4-Dinitrotoluene       350       U         84-66-2Diethylphthalate       350       U         7005-72-34-Chlorophenyl-phenyl ether       350       U	
84-66-2Diethylphthalate       350         7005-72-34-Chlorophenyl-phenyl ether       350	
7005-72-34-Chlorophenyl-phenyl ether 350 U	
B6-73-7	
100-01-64-Nitroaniline 850 U	I
534-52-14,6-Dinitro-2-methylphenol 850 U	
B6-30-6 N-Nitrosodiphenylamine 350 U	
U 350 U	
118-74-1Hexachlorobenzene 350 U	
B7-86-5Pentachlorophenol 850 U	1
35-01-8Phenanthrene 350	
120-12-7 <b>An</b> thracene 350 U	
86-74-8Carbazole 350 U	
350 U	
206-44-0Fluoranthene 350 U	
129-00-0 <b>Py</b> rene	
B5-68-7Butylbenzylphthalate 350 U	
91-94-13,3'-Dichlorobenzidine 350 U	
56-55-3Benzo(a)anthracene 350 U	
218-01-9Chrysene 350 U	
17-81-7bis(2-Ethylhexyl)phthalate	<del>,</del> U
117-84-0Di-n-octylphthalate 350 U	
205-99-2Benzo(b) fluoranthene 350 U	ļ
07-08-9Benzo(k) fluoranthene 350 U	
0-32-8Benzo(a)pyrene	}
193-39-5Indeno(1,2,3-cd)pyrene .   350   U	
53-70-3Dibenz(a,h)anthracene 350	U5
91-24-2Benzo(g,h,i)perylene	いエ

11 1-95

## TENNECO GAS ASP91-2 - SEMIVOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

### 000051

Client No.

ab Name: Recra Environmental Contract: \_\_\_\_\_\_\_ 229-BF02-5CS-007-01

Lab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229F1

Matrix: (soil/water) SOIL Lab Sample ID: A5393303

Dample wt/vol: 30.27 (g/mL) G Lab File ID: Z23928.RR

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>07/24/95</u> <u>07/24/95</u>

Moisture: 7.1 decanted: (Y/N) N Date Extracted: 07/27/95

Ioncentrated Extract Volume: <u>500</u> (uL) Date Analyzed: <u>08/01/95</u>

njection Volume: 2.00 (uL) Dilution Factor: 1.00

3PC Cleanup: **(**Y/N) <u>Y</u> pH: <u>8.7</u>

CONCENTRATION UNITS:

Number TICs found: 20 (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND. PROD.	4.10	R <del>180</del>	ABJ
2.	UNKNOWN	4.37	R -189	BJ
3.	UNKNOWN ALKANE	6.92	94	J
4.	UNKNOWN ALKANE	7.73	120	J
5.	UNKNOWN ACID	9.42	110	J
6.	UNKNOWN ALKANE	9.50	160	J
7.	UNKNOWN ALKANE	9.92	9 <b>9</b>	J
8.	UNKNOWN ALKANE	10.40	260	J
9.	UNKNOWN ALKANE	12.10	150	J
10.	UNKNOWN ALKANE	12.92	140	J
11.	UNKNOWN ALKANE	13.68	130	J
12.	UNKNOWN ALKANE	15.17	230	J
13.	UNKNOWN ALKANE	15.87	200	J
14.	UNKNOWN ALKANE	16.53	230	<b>J</b>
15.	UNKNOWN	16.60	110	J
16.	UNKNOWN ALKANE	17.17	160	J
17.	UNKNOWN ALKANE	17.80	180	J
18.	UNKNOWN ALKANE	18.40	150	J
19.	UNKNOWN ALKANE	18.98	130	J
20.	UNKNOWN ALKANE	19.55	84	J

11-29-95

### INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

						<del>701</del>	İ
me: RECRA_ENVIRONM	ENTAL_INC	Contract: N	Y94	-393	22	<u>9-BFG2-5CS-</u>	-d-
de: RECNY C	ase No.: 15	1SR SAS No.	:	<del></del>		G No.: 229F1	- 4-
(soil/water): SOI	L		La	b Samp	le II	D: 0587	-
(low/med): LOW	. <del>-</del>					d: 07/24/95	
ds: 92	<del>. 9</del>					u. 0//21/95	
_							
Concentratio	n Units (ua	/L or mg/kg dr	σw	eight)	· MG	/KC	
	,	, so or mg, ng ar	, ,,	019110/	. 140	/ NG	
-				<del></del>		•	
CAS No.	Analyte	Concentration	C	Q	M		
7429-90-5		6580	1-1		P		
7440-36-0		2.1	3		P		
7440-38-2	Arsenic -	7.8			P_		
7440-39-3		40.7	3		P		
7440-41-7	Beryllium				P		
7440-43-9		1.1			<del>-</del> -		
<b>7</b> 44 <b>0</b> -70-2		27700		<del></del>	† <u>-</u> -		
7440-47-3		7.9	-		5-		
7440-48-4		5.3	B	<del></del>	P-		
<b>7</b> 44 <b>0</b> -50-8		25.6			P-	•	
7439-89-6		18600			P		
<b>7</b> 439-92-1		9.2			P-		
<b>7</b> 43 <b>9</b> -95-4				+5	P-		
<b>7</b> 43 <b>9</b> -96-5				-EXT	P		
<b>7</b> 439-97-6		0.04		——————————————————————————————————————	c⊽		
7440-02-0	Nickel	13.2			P		
<b>7</b> 44 <b>0</b> -09-7		1270	-	<del></del>	P-		
<b>7</b> 782-49-2		0.87		- <del>W</del>	<u>-</u>		
7440-22-4		2.1			p-		
7440-23-5		249			p-		
7440-28-0		0.87		CU KIMI	F_		
7440-62-2		9.6		— <u>———</u>	P_		
7440-66-6		95.2	B		[P		
7440 00-0	Cyanide	0.93	77		<u>_</u> _		
	Hexchrom	0.20			7-1		
	-	U.20	كمك	<u> </u>	A_		
		ļ	-	<del></del>	<del>   </del>		
	_	· · · · · · · · · · · · · · · · · · ·		<del></del>			
-	_		<b>-</b>				
	_		<u> </u>	<del></del>			
<del></del>			<b> </b>	<del></del>			
	_		-		<b></b>		
		1					

Comments:	Texture: Artifacts:	MEDIU.
EAD_SAMPDE ID. ASSESSON COOK (75)	1/12-5-15	
CLIENT_SAMPLE_ID:_229-BF02-5CS-007-01FORM_I - IN		

### 000059 EPA SAMPLE NO.

#### 1D PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: RECRA ENVIRON	Contract: NY94-393 229-8F62-52
Lab Code: RECNY Case No.: 151SR	SAS No.: SDG No.: 229F1_
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: A5393303
Sample wt/vol: $30.1$ (g/mL) G	Lab File ID:
% Moisture: 7 decanted: (Y/N)	N Date Received: 07/24/95
Extraction: (SepF/Cont/Sonc) SON	NC Date Extracted: 07/27/95
Concentrated Extract Volume: 500	0 (uL) Date Analyzed: 08/01/95
Injection Volume: <u>1.00</u> (uL)	Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8	.7 Sulfur Cleanup: (Y/N) N
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
319-86-8delta-BHC	1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 1.8 U 3.5 U

	_		
	2	29 TRIP BLA	NK-
lab Name: <u>Recra En<b>v</b>ironmental</u> Contract:		20 8501 6	DE COST
			DR-003-1
Lab Code: RECNY Case No.: 151SR SAS No.	.: SDG	No.: <u>229Fl</u>	_
Matrix: (soil/w <b>a</b> ter) <u>WATER</u>	Lab Sample ID:	A5385803	
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	tah Pila ID.	117073 MC	$\sim$
Sample wt/vol:(g/nd/ ME	man rile in:	<u>n / 0 / 5 . M.S</u>	<u> </u>
Level: (low/m <b>e</b> d) <u>LOW</u>	Date Samp/Recv	: 07/19/95	07/19/95
Moisture: not de $oldsymbol{c}$ . Heated Purge: $\underline{Y}$	Date Analyzed:	07/20/95	
3C Column: <u>DB-6<b>2</b>4</u> ID: <u>0.<b>5</b>3</u> (mm)	Dilution Facto	r: <u>1.00</u>	
oil Extract Volume: (uL)	POIT WIIGHOU A	olume:	(uL)
	CONCENTRATION UN		
CAS NO. COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74 07 3 Chlavenathana		10	U
74-87-3Chloromethane		10	# U.5
74-83-9Bromomethane	<del></del>	10	U U
75-01-4Vinyl Chloride		10	U U
75-09-2Methylene Chloride		10	U
67-64-1Acetone		10	母のゴ
ar ar o	<del></del>	10	U -
75-35-4 <b>1</b> ,1-Dichloroethene		10	Ū
75-34-3 <b>1</b> ,1-Dichloroethane		10	Ū
540-59-01,2-Dichloroethene (total)		10	Ŭ
(cz cc z Chloroform	t t	10	Ū
107-06-2 <b>1</b> ,2-Dichloroethane		10	U
78-93-3 <b>2</b> -Butanone		10	<b>ט</b>
71-55-6 <b>1</b> ,1,1-Trichloroethane		10	U
56-23-5Carbon Tetrachloride		10	ָּט l
75-27-4Bromodichloromethane		10	Ū
78-87-51,2-Dichloropropane		10	Ū
10061-01-5cis-1,3-Dichloropropene		10	Ū
79-01-6Trichloroethene		10	U
124-48-1 <b>D</b> ib <b>r</b> omochloromethane		10	. Ū
79-00-5 <b>1</b> ,1 <b>,2-</b> Trichloroethane		10	U
71-43-2 <b>B</b> enzene		10	U
10061-02-6trans-1,3-Dichloropropene		10	U
75-25-2Bromoform		10	U
108-10-14-Methyl-2-pentanone		10	Ü
		10	Ü
127-18-4Tetrachloroethene		10	Ü
108-88-3Toluene		10	Ü
79-34-51,1,2,2-Tetrachloroethane		10	Ü
108-90-7Chlorobenzene		10	U
100-41-4Ethyl Benzene		10	Ü
100-42-5 <b>S</b> tyrene		10	U
1330-20-7 <b>X</b> ylenes (total)		10	Ü

# TEMNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

lab Name: <u>Recra En</u>	vironmental Conti	ract:	- 229	TRIP BLAN	<del></del>
Lab Code: RECNY	Case No.: <u>151SR</u> 5	BAS No.:	SDG N	o.: <u>229F1</u>	,-CC = 7 €
atrix: (soil/w <b>a</b> te	r) <u>WATER</u>	Lab Sampl	e ID:	A5385803	_
Sample wt/vol:	5.00 (g/mL) <u>ML</u>	Lab File	ID:	H7873.MSQ	
evel: (low/med)	<u>LOW</u>	Date Samp	/Recv:	07/19/95 (	07/19/95
Moisture: not de	c	Date Anal	yzed:	07/20/95	
C Column: <u>DB-6<b>2</b>4</u>	ID: <u>0.53</u> (mm)	Dilution	Factor:	1.00	
oil Extract Volume	e: (uL)	Soil Aliq	uot Vol	ume:	( uL)
Number TICs fou <b>nd</b> :	3	CONCENTRATI (ug/L or u			
CAS NO.	Compound Nam	e RT	E	st. Conc.	Q
1. 2. 3.	UNKNOWN UNKNOWN ORGANOSILICON COMPOU	5. 9. ND 31	10	11 8 Q <del>7</del>	J J

# TENNECO GAS ASP91-1 - VOLATILES ANALYSIS DATA SHEET

Tab Name: Books Environmental Contract:	7	rip Blank	
ab Name: <u>Recra En<b>v</b>ironmental</u> Contract: _	23	29-BF02-5	0B-009-TE
ab Code: RECNY Case No.: 151SR SAS No.			
atrix: (soil/water) <u>WATER</u>	Lab Sample ID:	A5393304	<del></del> -
Sample wt/vol: <u>5.00</u> (g/mL) <u>ML</u>	Lab File ID:	<u> H7890.MS</u>	Q
evel: (low/med) <u>LOW</u>	Date Samp/Recv	07/24/95	<u>07/24/95</u>
Moisture: not dec Heated Purge: Y	Date Analyzed:	07/25/95	
C Column: DB-624 ID: 0,53 (mm)	Dilution Factor	c: <u>1.00</u>	
oil Extract Volume:(uL)	Soil Aliquot Vo	olume:	(uL)
	ONCENTRATION UN	ITS:	
	(ug/L or ug/Kg)		Q
		1.0	
74-87-3Chloromethane		10	- U
74-83-9 <b>B</b> romomethane		10	ñ
75-01-4Vinyl Chloride		10	U
75-00-3Chloroethane		10	jñ
75-09-2Methylene Chloride		10	10
67-64-1Acetone		10	7.
75-15-0Carbon Disulfide		. 10 10	U U
75-35-4 <b>1</b> ,1-Dichloroethene		10	Ü
75-34-3 <b>1</b> ,1-Dichloroethane		10	Ü
		10	U
107-06-21,2-Dichloroethane		10	U
.78-93-3 <b>2</b> -Butanone	<del></del>	10	き しコ
71-55-6 <b>1</b> ,1,1-Trichloroethane		10	Ü
56-23-5Carbon Tetrachloride		10	Ü
75-27-4Bromodichloromethane		10	† ; ;
78-87-51,2-Dichloropropane		10	ij
10061-01-5cis-1,3-Dichloropropene		10	Ü
79-01-6Trichloroethene		10	T U
124-48-1Dibromochloromethane		10	t
79-00-5 <b>1</b> ,1,2-Trichloroethane		10	_ †ਹ <sup>†</sup>
71-43-2 <b>B</b> en <b>z</b> ene		10	U
10061-02-6trans-1,3-Dichloropropene		10	U
75-25-2Bromoform		10	[U
108-10-1 <b>4</b> -M <b>e</b> thyl-2-pentanone		10	U
591+78-6 <b>2</b> -Hexanone		10	Ü
127-18-4 <b>T</b> etrachloroethene		10	U
108-88-3 <b>T</b> ol <b>ue</b> ne		10	Ü
79-34-5 <b>1</b> ,1,2,2-Tetrachloroethane		10	ŲŪ į
108-90-7 <b>C</b> hlorobenzene		10	[U
100-41-4Eth <b>y</b> l Benzene		10	1 U
100-42-5 <b>S</b> ty <b>re</b> ne		10	10
1330-20-7 <b>X</b> ylenes (total)		10	↓Ŭ   :

# TENNECO GAS ASP91-1 - VOLATILES TENTATIVELY IDENTIFIED COMPOUNDS

000033

ah Nama Bagwa En	·iwonmontal Contract.		rip-Blank	
•	<u>zironmental</u> Contract: Case No.: <u>151SR</u> SAS No	<u> </u>	29-BF02-5 No.: <u>229F1</u>	0B-009-TB
atrix: (soil/water	) <u>WATER</u>	Lab Sample ID:	A5393304	
ample wt/vol:	5.00 (g/mL) ML	Lab File ID:	H7890.MSQ	<del></del>
Level: {low/med}	<u>L.OW</u>	Date Samp/Recv	07/24/95	27/24/95
Moisture: not de	·	Date Analyzed:	07/25/95	
GC Column: DB-6 <b>2</b> 4	ID: 0.53 (mm)	Dilution Factor	: <u>1.00</u>	
oil Extract Volume	e: (uL)	Soil Aliquot Vo	olume:	(uL)
Tumber TICs fou <b>n</b> d:	0	CONCENTRATION UNI (ug/L or ug/Kg)		
CAS NO.	Compound Name	RT	Est. Conc.	Q

Attachment 3

#### TENNECO GAS METHOD 8240 - TOLP HSL LIST VOLATILE ORGANICS 000006 ANALYSIS DATA SHEET

Client No.

229-MH01-5DD-056-01 : b Name: Recra Environmental Contract: ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229 Lab Sample ID: <u>A5451001</u> etrix: (soil/wa**t**er**)** <u>SOIL</u> ample wt/vol: 5.00 (g/mL) ML Lab File ID: K9406.MSO Date Samp/Recv: <u>08/23/95</u> <u>08/23/95</u> evel: (low/med) LOW Moisture: not dec. 100.0 Heated Purge: N Date Analyzed: 08/31/95 Dilution Factor: \_\_\_10.00 +C Column: DB-624 ID: 0.53 (mm) Soil Aliquot Volume: \_\_\_\_ (ul) oil Extract Volume: \_\_\_\_\_ (uL) CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> CAS NO. COMPOUND 50 67-64-1--**---Ac**etone\_\_\_\_ 71-43-2-----**Be**nz**e**ne 75-27-4----Bromodichloromethane\_\_\_\_\_ 8 75-25-2----**Br**omoform\_\_\_\_ 10 74-83-9-----**Br**omomethane 78-93-3----2-Butanone 75-15-0-----Carbon Disulfide 8 56-23-5-----Carbon Tetrachloride\_\_\_\_\_ 108-90-7----Chlorobenzene 10 75-00-3-----Chloroethane 8 67-66-3-----Chloroform\_\_\_\_ 10 74-87-3----Chloromethane 124-48-1----Dib**ro**mochloromethane\_\_\_\_\_ 75-34-3-----**1**,1**-**Dichloroethane\_\_\_\_\_\_ 107-06-2----1,2-Dichloroethane\_\_\_\_\_\_ 75-35-4-----**1**,1-Dichloroethene 540-59-0-----1,2-Dichloroethene (total)\_\_\_\_\_ 8-37-5-----1, 2-Dichloropropane\_\_\_\_\_ 0061-01-5---cis-1,3-Dichloropropene 10061-02-6---trans-1,3-Dichloropropene 100-41-4----Ethyl Benzene\_\_\_\_ 50 |591-78-6----2-Hexanone 75-09-2-----Methylene Chloride\_\_\_ 40 108-10-1----**4**-M**et**hyl-2-pentanone\_\_\_\_\_ 8 100-42-5----**S**tyrene 79-34-5----1,1,2,2-Tetrachloroethane\_\_\_\_\_ 8 127-18-4----**T**et**ra**chloroethene 108-88-3-+---**T**oluene | 71 - 55 - 6 - - - - - - 1, 1, 1 - Trichloroethane 79-00-5--**---1**,1**,**2-Trichloroethane\_\_\_\_\_ 8 79-01-6----Trichloroethene \_\_ \_\_\_\_ 10 108-05-4-----**V**inyl acetate\_ 10

75-01-4-----**v**inyl Chlorid $\overline{\mathsf{e}}_{\_}$ 

.330-20-7----**X**yl**e**nes (total)\_\_\_\_\_

#### TENNECO GAS METHOD 8270 - TCLP HSL LIST SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

000007

Client No.

229-MH01-5DD-056-01 ab Name: Recra\_Environmental Contract: \_\_\_\_ ab Code: RECNY Case No.: 151SR SAS No.: SDG No.: 229 Matrix: (soil/water) SOIL Lab Sample ID: A5451001 ample wt/vol: 250.00 (g/mL) ML Lab File ID: 22041Y.MSC evel: (low/med) <u>LOW</u> Date Samp/Recv: <u>08/23/95</u> <u>08/23/95</u> Moisture: 100.0 decanted: (Y/N) N Date Extracted: 08/28/95 oncentrated Extract Volume: 1000(uL) Date Analyzed: 08/30/95 njection Volume: 1.00(uL) Dilution Factor: 1.00 PC Cleanup: (Y/N) N pH: 4.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/L</u> Q 83-32-9-----**Ac**enaphthene\_\_ R === 208-96-8----**Ac**enaphthylene\_\_\_\_\_ R == R 10 R 10 R 10 120-12-7----**A**nt**hr**acene 120-12-7-----**A**nthracene 56-55-3-----**B**en**zo**(a)anthracene\_\_\_\_\_ 205-99-2----**Be**nzo(b) fluoranthene\_\_\_\_\_ 207-08-9----**Benzo**(k)fluoranthene\_\_\_\_\_ 191-24-2----Ben**zo**(ĝ,h,i)perylene 50-32-8----**Be**nzo(a)pyrene\_\_\_\_\_ 65-85-0-----Benzoic acid 50 100-51-6----**Benzy**l alcoh<mark>ol\_</mark> 111-91-1----bis(2-Chloroethoxy) methane 16 111-44-4----bis(2-Chloroethyl) ether R ==0 108-60-1----**2,**2'-oxybis(1-Chloropropane)\_\_\_\_\_ R -10 117-81-7----bis(2-Ethylhexyl)phthalate\_\_\_\_ 101-55-3----4-Bromophenyl-phenylether 85-68-7----Butylbenzylphthalate\_\_\_\_\_ 106-47-8-----**4-**Ch**l**oroaniline\_\_\_\_ 59-50-7----4-Chloro-3-methylphenol\_\_\_\_ 91-58-7----**2-**Chloronaphthalene\_\_\_\_\_ 85-57-8-----**2-**Chlorophenol\_\_\_\_ 95-57-8------**2-**Chlorophenol 7005-72-3----**4-**Chlorophenyl-phenyl ether\_\_\_\_ 16 R -16 R 20 Ř <del>10</del> 132-64-9----**Di**b**en**zofuran 132-64-9-----Dibenzordina 64-74-2-----Di-n-butylphthalate 95-50-1----1,2-Dichlorobenzene 641-73-1----1,3-Dichlorobenzene 10 106-46-7-----1,4-Dichlorobenzene\_\_ 91-94-1----3,3'-Dichlorobenzidine 20-83-2----2,4-Dichlorophenol 84-66-2----**Di**et**h**ylphthalate \_\_\_\_\_

05-67-9----**2,4-D**imethylphenol\_\_\_\_\_

## TENNECO GAS METHOD 8270 - TCLP HSL LIST SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

229-MH01-5DD-056-01 ab Name: Recra Environmental Contract: Lab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229 atrix: (soil/water) SOIL Lab Sample ID: A5451001 ample wt/vol: 250.00 (g/mL) ML Lab File ID: 22041Y.MSO evel: (low/med) LOW Date Samp/Recv: 08/23/95 08/23/95 Moisture: 100.0 decanted: (Y/N) N Date Extracted: 08/28/95Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/30/95 njection Volume: 1.00(uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: 4.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/L</u> R <del>10</del> 131-11-3----Dimethylphthalate 534-52-1----4,6-Dinitro-2-methylphenol\_\_\_\_ 50 U 50 51-28-5----2,4-Dinitrophenol\_\_\_\_\_ 121-14-2----2,4-Dinitrotoluene\_\_\_\_\_ R 10 R 10 606-20-2----2,6-Dinitrotoluene R <del>10</del> R <del>10</del> 117-84-0----Di-n-octylphthalate 206-44-0----Fluoranthene R <del>10</del> 86-73-7----Fluorene 118-74-1----Hexachlorobenzene 87-68-3-----Hexachlorobutadiene 86-73-7-----Flu**ore**ne R 10-R <del>10</del> 77-47-4-----Hexachlorocyclopentadiene\_\_\_\_\_ 67-72-1-----Hexachloroethane R 10 193-39-5----Indeno(1,2,3-cd)pyrene\_\_\_\_\_ R 10 R <del>10</del> |78-59-1-----Isophorone R 20 91-57-6----**2-Met**hylnaphthalene 95-48-7----2-Methylphenol\_\_\_\_\_ U 16 JN 106-44-5----4-Methylphenol\_\_\_\_\_ 8 R -10 91-20-3-----Naphthalene 88-74-4----2-Nitroaniline\_\_\_\_\_ R .50 R 50 |99-09-2----3-Nitroaniline\_\_\_\_\_ 100-01-6----4-Nitroaniline R <del>50</del> R 10 98-95-3-----Nitrobenzene 88-75-5-----2-Nitrophenol 16 U 50 R <del>10</del> U 100-02-7-----4-Nitrophenol\_\_\_\_\_\_\_ 86-30-6----N-Nitrosodiphenylamine\_\_\_\_\_\_ 621-64-7----N-Nitroso-di-n-propylamine R 10 50 U 87-86-5----Pentachlorophenol R 10 85-01-8-----Phe**n**anthrene\_\_\_\_ <del>U</del> 108-95-2----**P**he**no**l 10 Ü 1129-00-0----**P**yrene K 10 120-82-1----1,2,4-Trichlorobenzene\_\_\_\_\_ 95-95-4----2,4,5-Trichlorophenol\_\_\_\_

#### TENNECO GAS METHOD 8270 - TCLP HSL LIST SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

000009

16

Client No.

229-MH01-5DD-056-01 Lab Name: Recra Environmental Contract: Lab Code: RECNY Case No.: 151SR SAS No.: \_\_\_\_ SDG No.: 229 Matrix: (soil/water) <u>SOIL</u> Lab Sample ID: A5451001 Sample wt/vol: 250.00 (g/mL) MLLab File ID: 22041Y.MSO Level: (low/med) <u>LOW</u> Date Samp/Recv: 08/23/95 08/23/95 Moisture: 100.0 decanted: (Y/N) N Date Extracted: 08/28/95 Foncentrated Extract Volume: 1000 (uL) Date Analyzed: 08/30/95 Injection Volume: 1.00(uL) Dilution Factor: \_\_\_\_1.00 GPC Cleanup: (Y/N) N pH: 4.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/L</u> Q

88-06-2-----**2**,4,6-Trichlorophenol\_

### INORGANIC ANALYSES DAMA SHEET.

<	ΑM	$\supset$	7 =	370
_	· · · ·	-		240

		INORGANIC .	ANALYSES DATA	SHE:	ET	. —	<del></del>
uab Name: RECF	RA_ENVIRONME	ENTAL_INC	Contract: N	Y94	-393	229	<del>0:</del> - Мно1 -500 тоб
ab Code: RECN	IY_ Ca	se No.: 50	17_ SAS No.	: _		SDG	No.: 229
atrix (soil/w	water): WATE	IR		Lal	b Samp	le ID	: 2214
evel (low/med	i): LOW_	_ <del></del>		Da	te Rec	eived	: 08/23/95
Solids:	0.	0					
Co	oncentration	Units (ug	/L or mg/kg dr	y w	eight)	: UG/I	<u>.</u>
	CAS No.	Analyte	Concentration	c	Q	M	
	<del>74<b>29</b>-90-5</del>	Aluminum			- , -	NR	
		Antimony -		- -		NR	
	7440-38-2		4.0	ט			
	<b>7440-</b> 39-3		865	•		F_	
•	7440-41-7	Beryllium		- -		NR	
	7440-43-9		21.0	1-1-	7	P_	
	<b>7440-</b> 70-2	Calcium		- -		NR	
	7440-47-3	Chromium_	257	_   _		P_	
	7440-48-4	Cobalt				$[N\overline{R}]$	
	7440-50-8	Copper		- -		NR	
	<b>7439-</b> 89-6	Iron				NR	
	7439-92-1	Lead	30.0	<u>[</u> [		P	
	7439-95-4	Magnesium				NR	
	<b>7439</b> -96-5	_				NR	
	<b>7439</b> -97-6	Mercury	0.20	ַ װ <u>ַ</u>		CV	
	7440-02-0					NR	
	<b>7440</b> -09-7	Potassium				NR	
		Selenium_	4.0	Ū		F_ NR	
	7440-22-4	·	0.50	[U]		[F_]	
	7440-23-5			_ _		NR	
		Thallium_		_   _		NR	
		Vanadium_		_   _		NR	
	7440-66-6			!_ .		NR [	
		Cyanide				NR	
				l_l_			
olor Before:	YELLOW	Clari	y Before: CLE	AR_		Textu	ire:
olor After:	COLORLESS	Clarit	y After: CLE	AR_		Artif	acts:
omments: LAB_SAMPLE_ CLIENT_SAMP TCLP_EXTRAC	LE ID: 229	01-CGA00180 -MH01-056-0	)1				

FORM I - IN

- M- 95



BLASLAND, BOUCK & LEE, INC.

engineers & scientists