Item 3
MF

Antech Ltd.

One Triangle Lane • Export, Pennsylvania 15632 • Phone: (724) 733-1161 • Fax: (724) 327-7793

July 13, 1999

Mr. Thomas J. Waligura
Wheeling-Pittsburgh Steel Corporation
1134 Market Street
Wheeling, WV 26003

**Waste Characterization; Purchase Order No. C 9810-02151**
**MF-LAR-99007; Martin's Ferry Plant**
**Antech Ltd. Project No. 99-3661**

Dear Mr. Waligura:

Enclosed are analytical results for the sample submitted by Wheeling-Pittsburgh Steel Corporation. The sample was received on June 25, 1999 and logged in for analysis on June 29, 1999, and entered into the report on July 9, 1999.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications. If you have any questions, please call me.

Sincerely,

Penelope J Morris

Penelope J. Morris
Project Coordinator

PJM:csh

Enclosures

c.c. Lisa Romito

Name of Sample?

**ANTECH LTD.**
**CASE NARRATIVE**

## I. PROJECT LOGIN INFORMATION:

### A: PROJECT NUMBERS:

ANTECH LTD.: 99-3661
CLIENT: Purchase Order Number: C 9810-02151

### B: SAMPLE IDENTIFICATIONS:

ANTECH LTD.: 9906-4136
CLIENT: MF Used Petroleum

### C: SHIPPING/RECEIVING COMMENTS:

None

## II. PREPARATION/ANALYSIS COMMENTS:

### A: METALS:

None

### B: ORGANICS:

**1. PESTICIDES/PCBS:**

None

**2. TOC/TOX:**

None

## III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.
Please refer to the enclosed TCLP Regulatory Levels table for appropriate regulatory levels and hazardous waste numbers.

**Table 1**
**General Data Table**
**Wheeling-Pittsburgh Steel Corporation**
**Antech Ltd. Project No. 99-3661**
**Waste Characterization; MF-LAR-99007**
**Purchase Order No. C 9810-02151; Martin's Ferry Plant**

| Parameter | Analytical Method | Units | Sample Identification: 9906-4136 MF Used Petroleum (6/25/99) | Sample Identification: 9906-4137 Method Blank (6/25/99) |
|---|---|---|---|---|
| Total Organic Halogens | 9020 (1) | mg/kg | 34 | <25 |
| TCLP (2) Metals: | | | | |
| Silver (TCLP) | 6010 (1) | mg/l | <0.050 | <0.050 |
| Arsenic (TCLP) | 6010 (1) | mg/l | <0.050 | <0.050 |
| Barium (TCLP) | 6010 (1) | mg/l | 2.5 | <1.0 |
| Cadmium (TCLP) | 6010 (1) | mg/l | 0.080 | <0.050 |
| Chromium (TCLP) | 6010 (1) | mg/l | 28 | <0.050 |
| Mercury (TCLP) | 7470 (1) | mg/l | <0.10 | <0.10 |
| Lead (TCLP) | 6010 (1) | mg/l | 6.5 | <0.050 |
| Selenium (TCLP) | 6010 (1) | mg/l | <0.10 | <0.10 |
| TCLP Extraction Fluid Data: | | | | |
| Extraction Fluid | 1311 (1) | - | NE (3) | No.1 |
| pH with Deionized Water | | pH units | NE | NAP (4) |
| pH After Addition of 1 Normal HCL | | pH units | NE | NAP |
| pH of TCLP Extract | | pH units | NE | 4.90 |

(1) U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2) TCLP = Toxicity Characteristic Leaching Procedure.
(3) NE = Not extractable. Sample contained less than 0.5 percent solids; therefore, the filtered sample is treated as the TCLP leachate and analyzed accordingly.
(4) NAP = Not applicable.

**Table 2**
**Polychlorinated Biphenyl Analysis**
**EPA Method 8082[1]**
**Wheeling-Pittsburgh Steel Corporation**
**Antech Ltd. Project No. 99-3661**
**Waste Characterization; MF-LAR-99007**
**Purchase Order No. C 9810-02151; Martin's Ferry Plant**

| | | Sample Identification | |
|---|---|---|---|
| Parameter | Units | 9906-4136 MF Used Petroleum (6/25/99) | 9906-4137 Method Blank (6/25/99) |
| Aroclor Source | | NONE | NONE |
| Polychlorinated Biphenyls | mg/kg | <1.0 | <1.0 |

[1] U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.

**Toxicity Characteristic Leaching Procedure (TCLP)**
**Regulatory Levels**

| Contaminant | Regulatory Level (mg/l) | USEPA Hazardous Waste Number |
|---|---|---|
| Arsenic | 5.0 | D004 |
| Barium | 100.0 | D005 |
| Cadmium | 1.0 | D006 |
| Chromium | 5.0 | D007 |
| Lead | 5.0 | D008 |
| Mercury | 0.2 | D009 |
| Selenium | 1.0 | D010 |
| Silver | 5.0 | D011 |

# ntech Ltd.
# Chain of Custody Record

Ship To:
Antech Ltd.
One Triangle Lane
Export, PA 15632
(724) 733-1161
FAX (724) 327-7793

Page___ of ___

**For Laboratory Use Only**
Laboratory Project No.: 713663

Project Name: Field Sampling  Project No.: ____  Sampler: SUSANNA Boyd (Printed Name)  Susanna Boyd (Signature)

Relinquished By: (Signature and Printed Name) SUSAN Boyd  Date 6/25/99  Time ____
Received By: (Signature and Printed Name) Eric Kubit  Date 6-25-99  Time 11 30 am

Relinquished By: (Signature and Printed Name) Eric Kubit  Date 6-25-99  Time 1:00 pm
Received By: (Signature and Printed Name) ____  Date 6-25-99  Time 1300

Antech Quote ID No.: ____
Antech Contact Name: ____
Client Purchase Order No.: ____
Method of Shipment: ____
Shipment ID: ____

Please Check when Monitoring Samples are Collected:
- ☐ Residual Chlorine Present
- ☐ Residual Chlorine Not Present

Please Check when VOA Vials are Collected:
- ☐ Free of Bubbles
- ☐ Bubbles Present

(Specify in Special Instructions/Comments)

Circle Bottle Size

| Sample ID Number | Sample Description: Date | Time | Description | Grab | Composite | Chemistry (500 ml, 1000 ml) | Nutrient (250 ml, 500 ml) | Total Metals (250 ml, 500 ml) | Dissolved Metals (250 ml, 500 ml) | Cyanide (1000 ml) | Phenolics (1000 ml) | TOC (125 ml) | TOX (250 ml) | Sulfide (500 ml) | Radiological (1000 ml) | Oil & Grease (1000 ml) | TPHC (1000 ml) | VOA (40 ml) | Organics (1000 ml, 2.5 liter) | Bacteriological (125 ml) | Widemouth Jar, Soil (250 ml, 500 ml, 1000 ml) | VOA Septa Jar, Soil (125 ml) | Other (Please Specify) | No. of Containers | For Lab Use Only Laboratory ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6/25 | 9:30 AP | Sludge Bed | | | | | | | | | | | | | | | 1 | | | | | | | 3510 |
| | ↓ | | Bed Sludge | | | | | | | | | | | | | | | 1 | | | | | | | 3511 |
| | | | Digester Foam | | | | | | | | | | | | | | | 1 | | | | | | | 3512 |
| | | | Digester 1 | | | | | | | | | | | | | | | | | 1 | | | | | 3513 |
| | ↓ | 10:10 | Digester 2 | | | | | | | | | | | | | | | | | | | | | | 3514 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6/25 | 11:00 MF | Used Petroleum | | | | | | | | | | | | | | | | | | | | | | 3515 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions/Comments: Contact P. Morris for Analytical Information
Note: Mine City Waste Treatment Plant Sampling
Contact Mr. Mark Pfeil Regarding

Sample Return/Disposal:
- ☐ Return to Client
- ☐ Disposal by Antech

Results To: Client Name: ____
Company: ____
Address: ____
Phone No: ____
Fax No: ____

Invoice To: Client Name: ____
Company: ____
Address: ____

**For Laboratory Use Only:**
Sample Condition Upon Receipt:
Was Temperature Vial Sent With Cooler? YES NO Cooler Temperature:
WHITE - Original COC File YELLOW - Return with Report PINK - Project File GOLD - Client Receipt

MAC.Antech-Admin.Antech-Chain of Custody
Rev.: 8/18/98

UNP-97037