

July 1996

**Phase II Environmental Site Assessment**

**Runnels Industries  
3590 Enterprise Avenue  
Hayward, California**



510-783-4171

FAX 510-783-3016

**RUNNELS INDUSTRIES, INC.**  
Industrial Coatings

A.B. "AL" GANT

3590 Enterprise Ave.  
Hayward, CA 94545-3282

July 11, 1996  
BEI Job No. 96004

Mr. Al Gant  
Runnels Industries  
3590 Enterprise Avenue  
Hayward, CA 94545

**Subject: Phase II Environmental Site Assessment  
Runnels Industries  
3590 Enterprise Avenue  
Hayward, California**

Dear Mr. Gant:

Blymyer Engineers, Inc. has completed the scope of work outlined in our May 22, 1996, proposal for the subject site. This letter presents a report, including tables, figures, and discussions of analytical results, of the subsurface investigation. The investigation was performed to address the recommendation in the Phase I environmental site assessment (ESA), for a shallow soil and groundwater investigation, as discussed below.

## 1.0 Introduction

### 1.1 Background

Blymyer Engineers performed a Phase I ESA of the property in April 1996 (*Phase I Environmental Site Assessment*, dated April 26, 1996). Two major findings and two minor findings were identified in the assessment:

#### Major Findings

1. Case closure has been requested, but not yet obtained, from the City of Hayward Fire Department (HFD) for an underground storage tank (UST) release discovered at the property during the removal of three USTs in May 1993. Blymyer Engineers recommended no action at this time regarding the UST release, pending closure of the case by the HFD.
2. Overspray from outside painting, spills of solvents documented in HFD inspection reports, filling in of low spots of the property with used blasting sand, historic use of lead-based paints, and diesel staining adjacent to a former aboveground storage tank (AST) were identified as conditions of concern at the property. Blymyer Engineers recommended a shallow soil and groundwater investigation to assess



property. These areas have been identified as containing the highest potential for impacts to soil or groundwater.

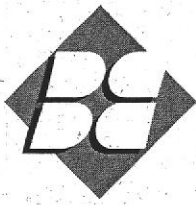
- Collect one soil sample from each soil bore at a depth of approximately 2 feet bgs.
- Install a temporary PVC well casing in each soil bore and collect a grab groundwater sample.
- Backfill soil bores with concrete grout upon completion.
- Place excess soil samples and decontamination liquids in Department of Transportation-approved containers for later disposal by the client.
- Analyze all soil and grab groundwater samples on a standard 10-day turnaround time for Total Extractable Petroleum Hydrocarbons (TEPH) as diesel, stoddard solvent, and motor oil by modified EPA Method 8015; the total concentrations of the following metals using approved EPA methods: antimony, arsenic, cadmium, chromium, cobalt, lead, mercury, molybdenum, nickel, and zinc; and volatile organic compounds (VOCs) by EPA Method 8240. Grab groundwater samples will be filtered by the laboratory prior to analysis for metals.
- Prepare a letter report of findings.

## 2.0 Environmental Setting

### 2.1 Regional Geology and Hydrogeology

The San Francisco Bay Area is a region dominated by northwest trending topography, enclosed in the Coast Range Province of California. The topography of the region reflects activity of a major fault system that includes the San Andreas Fault Zone on the west side of San Francisco Bay and the Hayward Fault on the east side of the Bay, which defines the base of the Berkeley Hills. Rock types in the region range from Jurassic age sedimentary, metamorphic, and plutonic basement to Quaternary alluvium (Norris and Webb, *Geology of California*, 1990).

The site is located on the gently sloping Quaternary age East Bay Plain of the San Francisco Bay Area, at an approximate elevation of 7 feet, National Geodetic Vertical Datum. The East Bay Plain consists of sediments derived from Franciscan Formation rocks of the nearby hills to the east. The sediments that largely comprise the East Bay Plain are considered alluvial fan deposits that include unconsolidated to poorly consolidated clay, silt, sand, and gravel. These sediments are divided into older and younger alluvium units (Hickenbottom and Muir, *Geohydrology of the*



*East Bay Plain*, 1988). Along the western edge of the East Bay Plain of San Francisco Bay, additional sedimentary deposits characterized as interfluvial basin and fluvial sediments were deposited at approximately the same time as the alluvial sediments. The interfluvial basin sediments were deposited from standing floodwaters in poorly drained areas between active and abandoned stream channels. The deposits are characterized as unconsolidated, plastic, moderately to poorly sorted, silt and clay rich in organic material. The fluvial sediments were deposited along streams and flood plains. The fluvial deposits are characterized as unconsolidated, moderately sorted fine sand, silt, and clayey silt, with coarse sand lenses. The subject site is mapped to overlie surficial sediments characterized as interfluvial basin deposits. Approximately 1,000 feet east of the site the interfluvial basin deposits are mapped in contact with fluvial sediments. The younger alluvium is mapped in contact with the fluvial sediments approximately ½ miles east of the site.

The regional groundwater flow direction generally ranges from west to southwest, toward the San Francisco Bay, and depth to groundwater ranges from shallow depths to 60 feet bgs, depending on proximity to the San Francisco Bay and seasonal influences. The older alluvium unit comprises the major aquifer in the area (Hickenbottom and Muir, *Geohydrology of the East Bay Plain*, 1988).

## 2.2 Climate

The East Bay Plain exhibits a Mediterranean-type climate with cool, wet winters and warmer, dry summers. Mean annual precipitation in Oakland is 25.42 inches. Mean monthly rainfall is 4.03 inches in January and 0.05 inches in August. Mean maximum temperatures are 54.5 degrees Fahrenheit (°F) in January and 70.6°F in July; mean minimum temperatures are 43.4°F in January and 56.8°F in July; average temperatures are 49°F in January and 63.7°F in July (National Oceanic and Atmospheric Administration, *Monthly Station Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1961-1990*, 1990).

## 3.0 Data Collection

### 3.1 Soil and Grab Groundwater Sample Collection

On June 7, 1996, five 1.5-inch-diameter soil bores, B1 through B4, and B6, (Figure 2) were advanced under the supervision of a Blymyer Engineers geologist by Gregg Drilling using Geoprobe sampling equipment. A copy of the Zone 7 Water Agency Drilling Permit is enclosed as Attachment A. Soil samples were collected continuously, in 4-foot lengths, for field observation, and one sample of surface fill materials from each bore was collected for laboratory analysis. The soil bores were advanced to 16 feet bgs, instead of the proposed 12 feet bgs, after field observations indicated that the depth to groundwater was greater than originally anticipated.



A hand-auger was used to install soil bore B5 due to restricted access. Soil samples were field-screened for organic vapors using a photoionization detector (PID) and lithologically described using the Unified Soil Classification System. The soil descriptions and PID results are shown in the soil bore logs, which are included as Attachment B.

A temporary PVC well screen was placed initially in the first soil bore in order to collect grab groundwater samples for laboratory analysis; however, groundwater recharge into the bore was slow. Consequently all groundwater samples were collected without the aid of temporary PVC well screens. The grab groundwater samples were noted as turbid. After collection of the groundwater samples all soil bores were grouted to grade surface with cement grout. The soil cuttings from the advancement of the soil bores were contained in a labeled, DOT-approved, 5-gallon pail. The pail was stored on-site behind the northwest corner of the office building for later disposal. Decontamination water was also contained in a labeled, DOT-approved, 5-gallon pail for later disposal.

All samples were collected in accordance with the enclosed Blymyer Engineers Standard Operating Procedure (SOP) No. 4, entitled *Soil and Grab Groundwater Sampling Using Hydraulically-Driven Sampling Equipment, Revision No. 1*, dated September 1, 1994 (Attachment C).

### **3.2 Soil and Grab Groundwater Sample Analytical Methods and Results**

The soil and grab groundwater samples were analyzed by National Environmental Testing, Inc. (NET), a California-certified laboratory, on a standard 10-day turnaround time.

The soil and grab groundwater samples were analyzed for TEPH as bunker C, creosote, diesel, hydraulic oil, kerosene, motor oil, stoddard solvent, and transmission fluid by modified EPA Method 8015; soluble concentrations of the metals antimony, cadmium, chromium, cobalt, molybdenum, nickel, and zinc by EPA Method 6010; arsenic by EPA Method 7060; lead by EPA Method 7421; and mercury by EPA Method 7471. Soil samples with a metal concentration above 10 times (10X) the Soluble Threshold Limit Concentration (STLC) were further analyzed for the specific metal exceeding the STLC value. Soil samples were analyzed for VOCs by EPA Method 8240. A computer malfunction at the laboratory resulted in the selection of EPA Method 8260 for analysis of groundwater for VOCs. Grab groundwater samples were filtered by the laboratory prior to analysis for metals.

Analytical results for the soil and grab groundwater samples are summarized in Tables I through IV, and the laboratory report is included as Attachment D.



No concentrations of VOCs were detectable in the soil samples (Table I). This would be consistent with the diffuse, low concentration, low volume, former usage of VOCs at the site to thin spray paint, and receipt of overspray by the ground surface over time.

Concentrations of all metals except cadmium and molybdenum were detected in soil samples. Concentrations of chromium, lead, and zinc exceed 10X the STLC in two samples; however, the respective Total Threshold Limit Concentration (TTLC) for these metals was not exceeded in any soil sample (Table II). Ten times the STLC is a general rule-of-thumb used to determine if additional analytical testing for STLC metals should be conducted. Based on the results of the rule-of-thumb evaluation, STLC analysis for lead was requested for soil sample B4-1, and STLC analysis for chromium, lead, and zinc was requested for soil sample B5-0.5. Results of these additional tests are also presented in Table II.

*MCL exceeded*

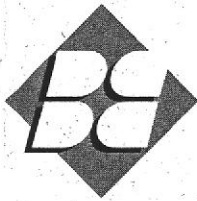
#### 4.3 Discussion of Grab Groundwater Sample Analytical Results

Relatively low detectable concentrations of TEPH as diesel and/or TEPH as transmission fluid were detected in each grab groundwater sample collected from the soil bores (Table III). TEPH as diesel was present at concentrations of 0.38 milligram per liter (mg/L) and 0.25 mg/L in grab groundwater samples from bores B1 and B4, respectively. TEPH as transmission fluid was present at detectable concentrations ranging from 0.56 mg/L to 10 mg/L in groundwater samples from all bores except bore B1, where it was not detected. The laboratory indicated that the TEPH analysis chromatograms did not match the standards for bunker C, creosote, hydraulic oil, kerosene, motor oil, or stoddard solvent. Blymyer Engineers again anticipates that the oil detected at the site may be a cutting oil used lubricate metal during the cutting process.

Detectable concentrations of seven VOCs were present in the grab groundwater samples from all soil bores except B6 (Table III). Concentrations of 1,1-Dichloroethane (1,1-DCA), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), Tetrachloroethene (PCE), 1,1,2-Trichloroethane (1,1,2-TCA), Trichloroethene (TCE), and Vinyl Chloride (VC) were detected. Maximum Contaminant Levels (MCLs) were exceeded for four of these compounds. Available data appears to indicate on-site, and potentially, off-site sources may be present (Figures 3 through 9).

Soluble concentrations of lead, nickel, and zinc were detected in the grab groundwater samples. The STLC for any of the analyzed metals was not exceeded in any of the groundwater samples (Table IV). MCLs for metals were not exceeded, however, the method detection limit for antimony and cadmium was greater than the respective MCL value.

*not*  
10



Mr. Al Gant  
July 11, 1996  
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## 6.0 Limitations

Services performed by Blymyer Engineers, Inc. have been provided in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. The scope of work for the project was conducted within the limitation prescribed by the client. This report is not meant to represent a legal opinion. No other warranty, expressed or implied, is made. This report was prepared for the sole use of the client.

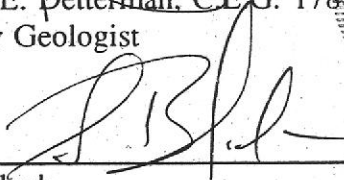
Blymyer Engineers appreciates this opportunity to provide you with environmental consulting services. Please call Mark Detterman at (510) 521-3773 with any questions or comments regarding this letter report.

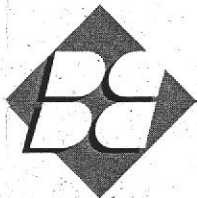
Sincerely,

Blymyer Engineers, Inc.

By:   
Mark E. Detterman, C.E.G. 1788  
Senior Geologist



And:   
Sue Black  
Vice President, Environmental Services



Enclosures:

|               |   |
|---------------|---|
| Table I:      | Summary of Petroleum and VOC Soil Sample Analytical Results   |
| Table II:     | Summary of Soil Sample Metal Analysis Results   |
| Table III:    | Summary of Petroleum and VOC Groundwater Sample Analytical Results  |
| Table IV:     | Summary of Soluble Groundwater Sample Metal Analysis Results  |
| Figure 1:     | Site Location Map   |
| Figure 2:     | Soil Bore Locations   |
| Figure 3:     | Grab Groundwater 1,1-DCA Concentration Map, June 7, 1996  |
| Figure 4:     | Grab Groundwater cis-1,2-DCE Concentration Map, June 7, 1996  |
| Figure 5:     | Grab Groundwater 1,1-DCE Concentration Map, June 7, 1996  |
| Figure 6:     | Grab Groundwater PCE Concentration Map, June 7, 1996  |
| Figure 7:     | Grab Groundwater 1,1,2-TCA Concentration Map, June 7, 1996  |
| Figure 8:     | Grab Groundwater TCE Concentration Map, June 7, 1996  |
| Figure 9:     | Grab Groundwater Vinyl Chloride Concentration Map, June 7, 1996   |
| Attachment A: | Zone 7 Water Agency Drilling Permit   |
| Attachment B: | Soil Bore Logs  |
| Attachment C: | Blymyer Engineers Standard Operating Procedure No. 4, <i>Soil and Grab Groundwater Sampling Using Hydraulically-Driven Sampling Equipment, Revision No. 1</i> , dated September 1, 1994 |
| Attachment D: | Analytical Report, National Environmental Testing, Inc., dated June 25, 1996, and July 5, 1996  |





**Table I, Summary of Petroleum and VOC Soil Sample Analytical Results**

**BEI Job No. 96004, Runnels Industries, Inc.  
3590 Enterprise Avenue, Hayward, California**

| Sample I.D. | Sample Date | Modified EPA Method 8015  |                                       | EPA Method 8240 |
|-------------|-------------|---------------------------|---------------------------------------|-----------------|
|             |             | TEPH as diesel<br>(mg/kg) | TEPH as transmission fluid<br>(mg/kg) | VOCs<br>(µg/kg) |
| B1-3        | 6/7/96      | 3.3                       | 3.3                                   | ND              |
| B2-2.5      | 6/7/96      | <1.0                      | 95                                    | 24*             |
| B3-2        | 6/7/96      | <1.0                      | 23                                    | ND              |
| B4-1.0      | 6/7/96      | <1.0                      | 84                                    | 12*             |
| B5-0.5      | 6/7/96      | <1.0                      | 610                                   | ND              |
| B6-2.5      | 6/7/96      | <1.0                      | 43                                    | 11*             |

*Handwritten:* ~~8240~~ or 8260?

Notes:

- EPA = Environmental Protection Agency
- TEPH = Total Extractable Petroleum Hydrocarbons
- VOCs = Volatile Organic Compounds
- mg/kg = milligrams per kilogram (parts per million)
- µg/kg = micrograms per kilogram (parts per billion)
- <x = Not detected above the listed detection limit
- ND = Not detected above the detection limit, see laboratory report for individual compound detection limit
- B1-3 = Soil sample from bore 1 at a depth of 3 feet
- \* = Acetone

**Table III, Summary of Petroleum and VOC Groundwater Sample Analytical Results**  
**BEI Job No. 96004, Runnels Industries, Inc.**  
**3590 Enterprise Avenue, Hayward, California**

| Sample I.D.      | Sample Date | Petroleum Hydrocarbons   |                                   | VOCs            |                    |                |            |                  |            |            |
|------------------|-------------|--------------------------|-----------------------------------|-----------------|--------------------|----------------|------------|------------------|------------|------------|
|                  |             | Modified EPA Method 8015 |                                   | EPA Method 8260 |                    |                |            |                  |            |            |
|                  |             | TEPH as diesel (mg/L)    | TEPH as transmission fluid (mg/L) | 1,1-DCA (µg/L)  | cis-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | PCE (µg/L) | 1,1,2-TCA (µg/L) | TCE (µg/L) | VC (µg/L)  |
| B1W              | 6/7/96      | <b>0.38</b>              | <0.050                            | <1.0            | <b>1.1</b>         | <b>3.8</b>     | <b>3.2</b> | <1.0             | <b>53</b>  | <1.0       |
| B2W              | 6/7/96      | <0.050                   | <b>0.56</b>                       | <b>25</b>       | <1.0               | <b>240</b>     | <1.0       | <b>1.1</b>       | <b>9.5</b> | <1.0       |
| B3W              | 6/7/96      | <0.050                   | <b>10</b>                         | <b>29</b>       | <1.0               | <b>130</b>     | <1.0       | <b>1.4</b>       | <b>4.8</b> | <b>1.4</b> |
| B4W              | 6/7/96      | <b>0.25</b>              | <b>0.24</b>                       | <b>1.3</b>      | <1.0               | <b>5.0</b>     | <b>1.2</b> | <1.0             | <b>22</b>  | <1.0       |
| B6W              | 6/7/96      | <0.050                   | <b>0.81</b>                       | <1.0            | <1.0               | <1.0           | <1.0       | <1.0             | <1.0       | <1.0       |
| MCL <sup>a</sup> | N/A         | N/A                      | N/A                               | 5               | 6                  | 6              | 5          | 5                | 5          | 0.5        |

|              |   |   |
|--------------|---|---|
| Notes: EPA   | = | Environmental Protection Agency   |
| TEPH         | = | Total Extractable Petroleum Hydrocarbons  |
| VOCs         | = | Volatile Organic Compounds  |
| mg/L         | = | milligrams per liter (parts per million)  |
| µg/L         | = | micrograms per liter (parts per billion)  |
| 1,1-DCA      | = | 1,1-Dichloroethane  |
| cis-1,2-DCE  | = | cis-1,2-Dichloroethene  |
| 1,1-DCE      | = | 1,1-Dichloroethene  |
| PCE          | = | Tetrachloroethene   |
| 1,1,2-TCA    | = | 1,1,2-Trichloroethane   |
| TCE          | = | Trichloroethene   |
| VC           | = | Vinyl Chloride  |
| MCL          | = | Maximum Contaminant Level   |
| <x           | = | Not detected above the listed detection limit   |
| <sup>a</sup> | = | Information obtained from <i>Compilation of Federal and State Drinking Water Standards and Criteria</i> , July 1995, Quality Assurance Technical Document No. 3, State of California Department of Water Resources. |
| N/A          | = | Not applicable  |

**Bold results indicate concentrations over the listed method detection limit.**

**Shaded results indicate concentrations over the respective MCL**

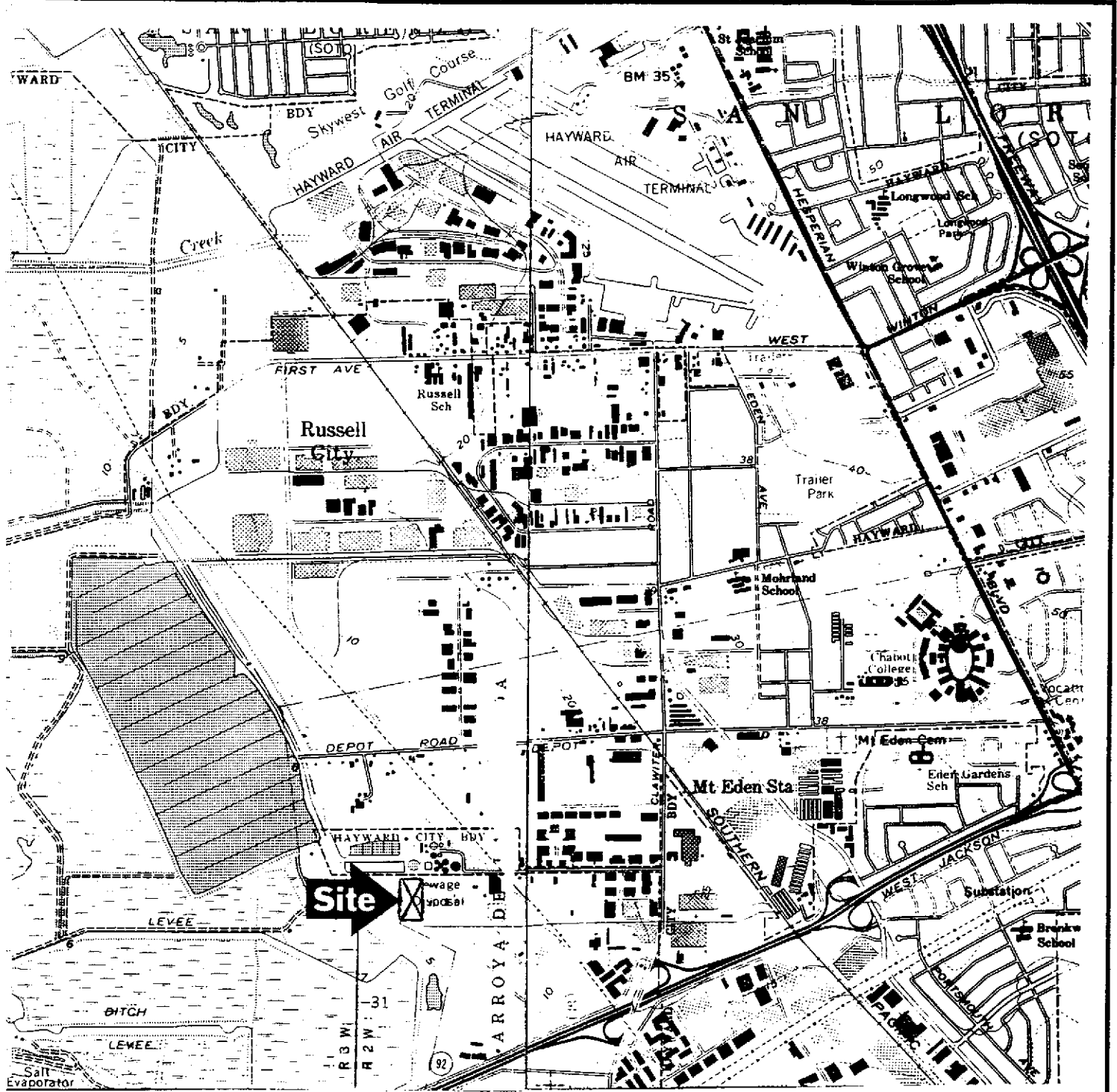
**Table IV, Summary of Soluble Groundwater Sample Metal Analysis Results**  
**BEI Job No. 96004, Runnels Industries, Inc.**  
**3590 Enterprise Avenue, Hayward, California**

| Sample I.D.  | Sample Date | EPA Method 6010 (mg/L) |         |        |        |        |        |             |            | EPA Method 7421 (mg/L) | EPA Method 7471 (mg/L) |
|--------------|-------------|------------------------|---------|--------|--------|--------|--------|-------------|------------|------------------------|------------------------|
|              |             | Sb                     | Ar      | Cd     | Cr     | Co     | Mo     | Ni          | Zn         | Pb                     | Hg                     |
| B1W          | 6/7/96      | <0.10                  | <0.0050 | <0.020 | <0.020 | <0.050 | <0.050 | <0.050      | <0.050     | <b>0.012</b>           | <0.00020               |
| B2W          | 6/7/96      | <0.10                  | <0.0050 | <0.020 | <0.020 | <0.050 | <0.050 | <b>0.30</b> | <b>3.1</b> | <b>0.006</b>           | <0.00020               |
| B3W          | 6/7/96      | <0.10                  | <0.0050 | <0.020 | <0.020 | <0.050 | <0.050 | <b>0.44</b> | <b>6.1</b> | <b>0.007</b>           | <0.00020               |
| B4W          | 6/7/96      | <0.10                  | <0.0050 | <0.020 | <0.020 | <0.050 | <0.050 | <0.050      | <b>1.7</b> | <0.0020                | <0.00020               |
| B6W          | 6/7/96      | <0.10                  | <0.0050 | <0.020 | <0.020 | <0.050 | <0.050 | <b>0.16</b> | <0.050     | <0.0020                | <0.00020               |
| PRG          |             |                        |         |        |        |        |        |             |            |                        |                        |
| STLC         | N/A         | 15                     | 5.0     | 1.0    | 5      | 80     | 350    | 20          | 250        | 5.0                    | 0.2                    |
| MCL          | N/A         | 0.006                  | 0.05    | 0.005  | 0.05   | N/A    | N/A    | 0.1         | 5*         | 0.015**                | 0.002                  |
| 1500<br>3400 |             |                        |         |        |        |        |        |             |            |                        |                        |

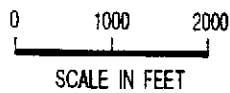
Notes: EPA = Environmental Protection Agency  
mg/L = milligrams per liter (parts per million)  
N/A = Not Applicable  
STLC = Soluble Threshold Limit Concentration  
N/A = Not Applicable  
MCL = Maximum Contaminant Level  
\*\* = Federal Treatment Technique triggered at an Action Level of 0.015 mg/L

Ar = Arsenic  
Cd = Cadmium  
Cr = Chromium  
Co = Cobalt  
Mo = Molybdenum  
\* = Secondary MCL  
Sb = Antimony  
Hg = Mercury  
Pb = Lead  
Zn = Zinc  
Ni = Nickel





UNITED STATES GEOLOGICAL SURVEY 7.5' QUAD. "SAN LEANDRO, CA" AND "HAYWARD, CA" BOTH PHOTOREVISED 1980.



**SITE LOCATION MAP**  
RUNNELS INDUSTRIES, INC.  
3590 ENTERPRISE AVE.  
HAYWARD, CA

FIGURE

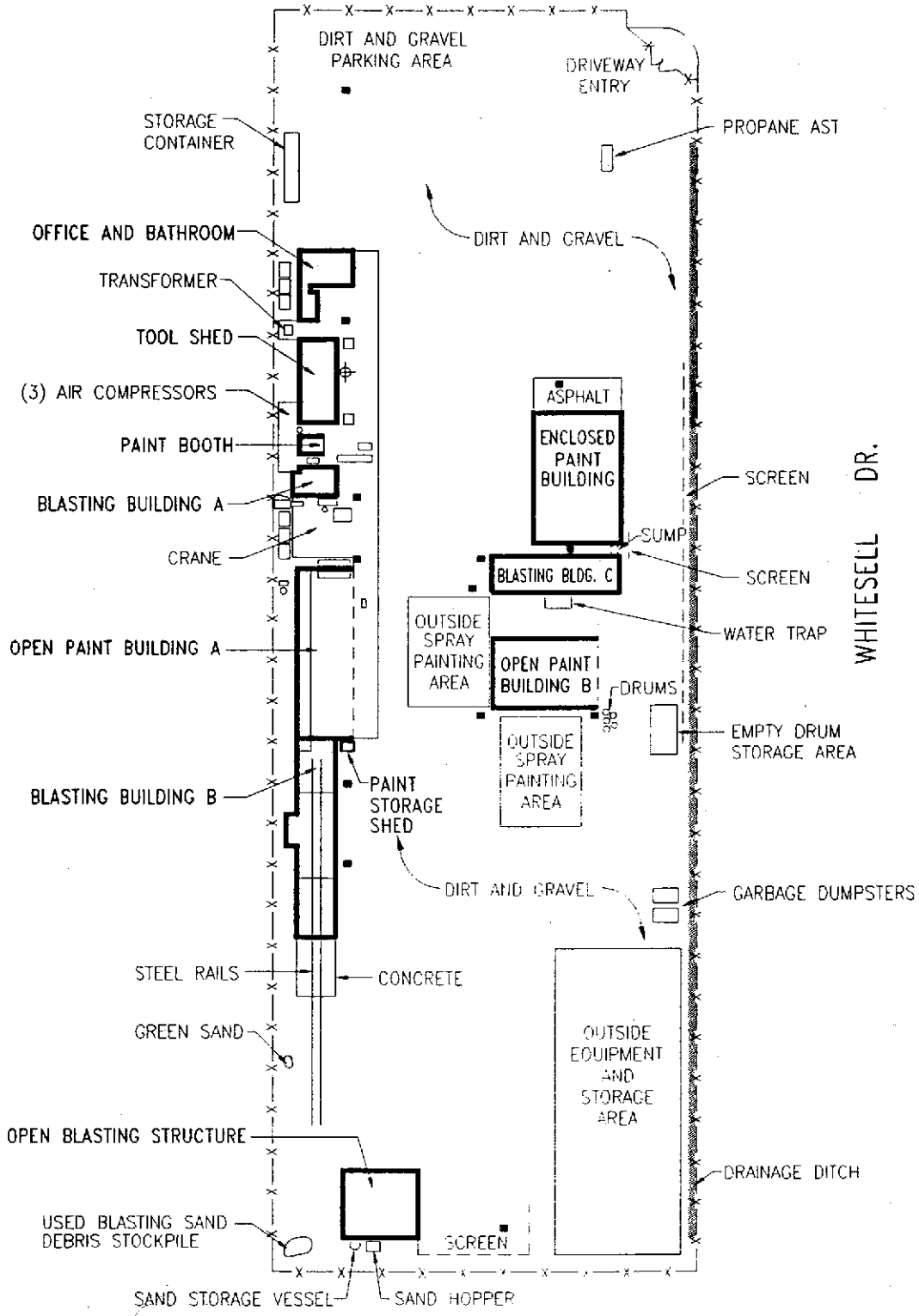
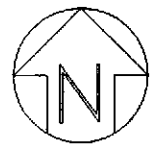
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JOB NO. 96004

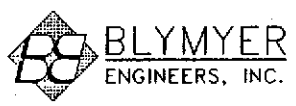
DATE 7/11/96

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ENTERPRISE AVE.



NOT TO SCALE



**LEGEND**  
 AST = ABOVEGROUND STORAGE TANK  
 ■ = STORM DRAIN

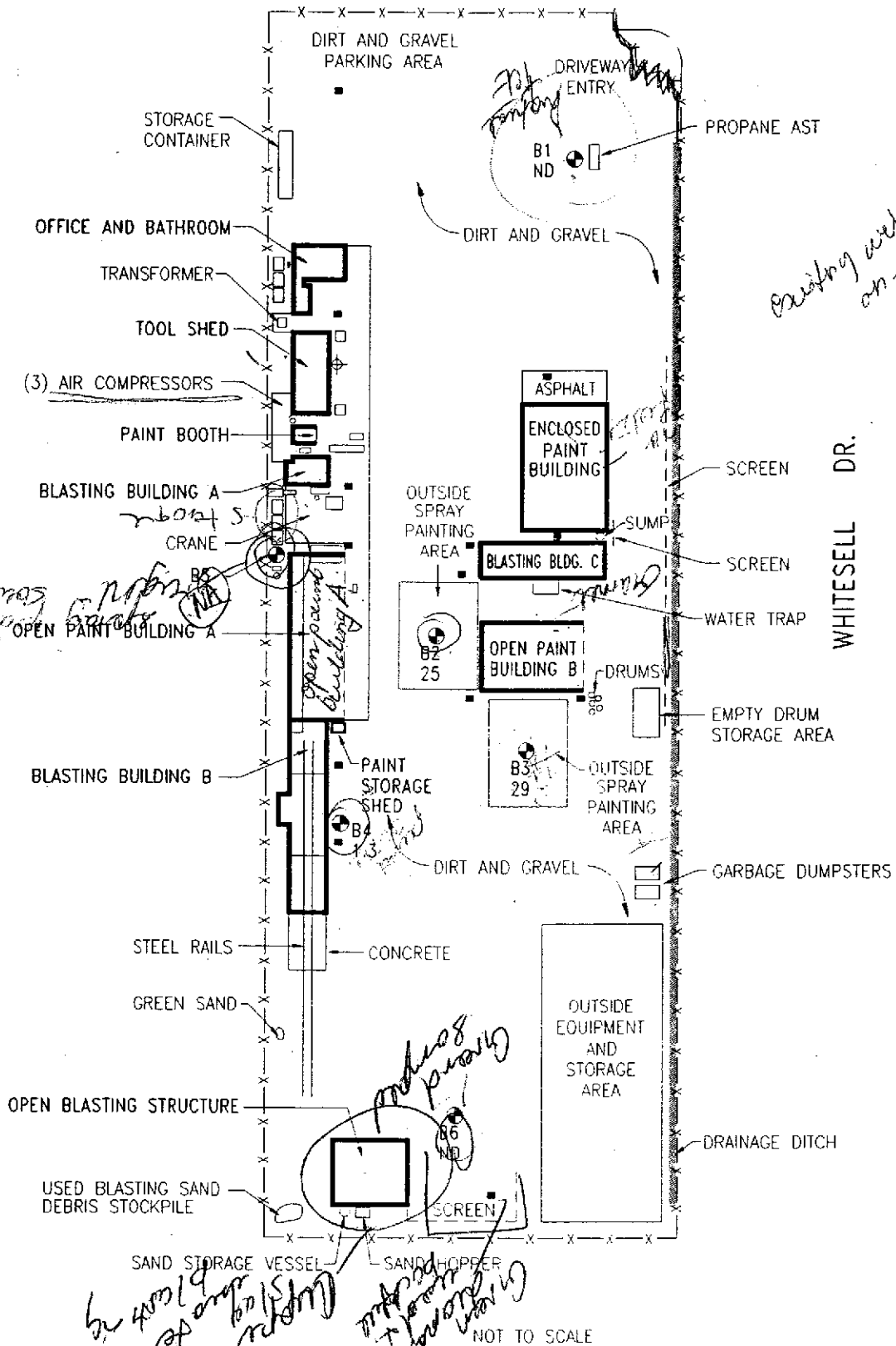
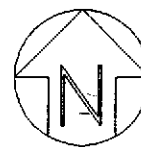
**SITE PLAN**  
 RUNNELS INDUSTRIES, INC.  
 3590 ENTERPRISE AVE.  
 HAYWARD, CA

**FIGURE**  
 2

BEI JOB NO. 96004  
 DATE 3-11-96



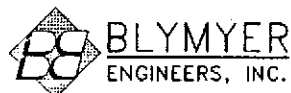
ENTERPRISE AVE.



*existing well on site*

WHITESELL DR.

NOT TO SCALE



LEGEND

- AST = ABOVEGROUND STORAGE TANK
- = STORM DRAIN
- ⊙ = GEOPROBE BORE LOCATION
- 29 = CONCENTRATION (parts per billion)
- ND = NON DETECTABLE

GRAB GROUNDWATER 1,1-DCA  
 CONCENTRATION MAP  
 JUNE 7, 1996  
 RUNNELS INDUSTRIES, INC.  
 3590 ENTERPRISE AVE.  
 HAYWARD, CA

FIGURE

3

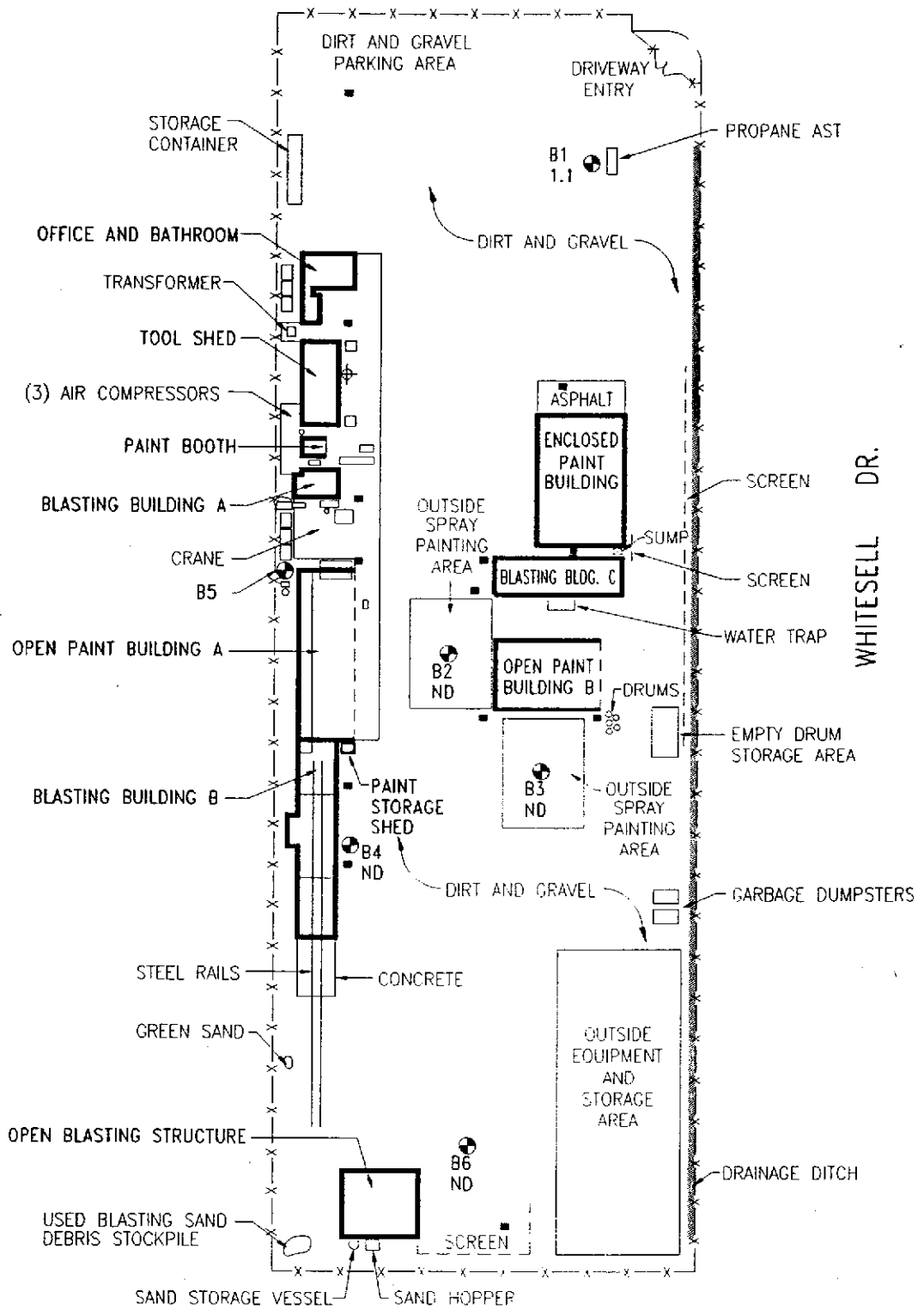
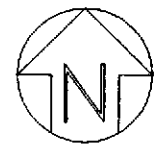
BEI JOB NO.  
96004

DATE  
7-9-96

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| <p><b>BLYMYER ENGINEERS, INC.</b></p> |                |
| BEI JOB NO.<br>96004                  | DATE<br>7-9-96 |

**LEGEND**

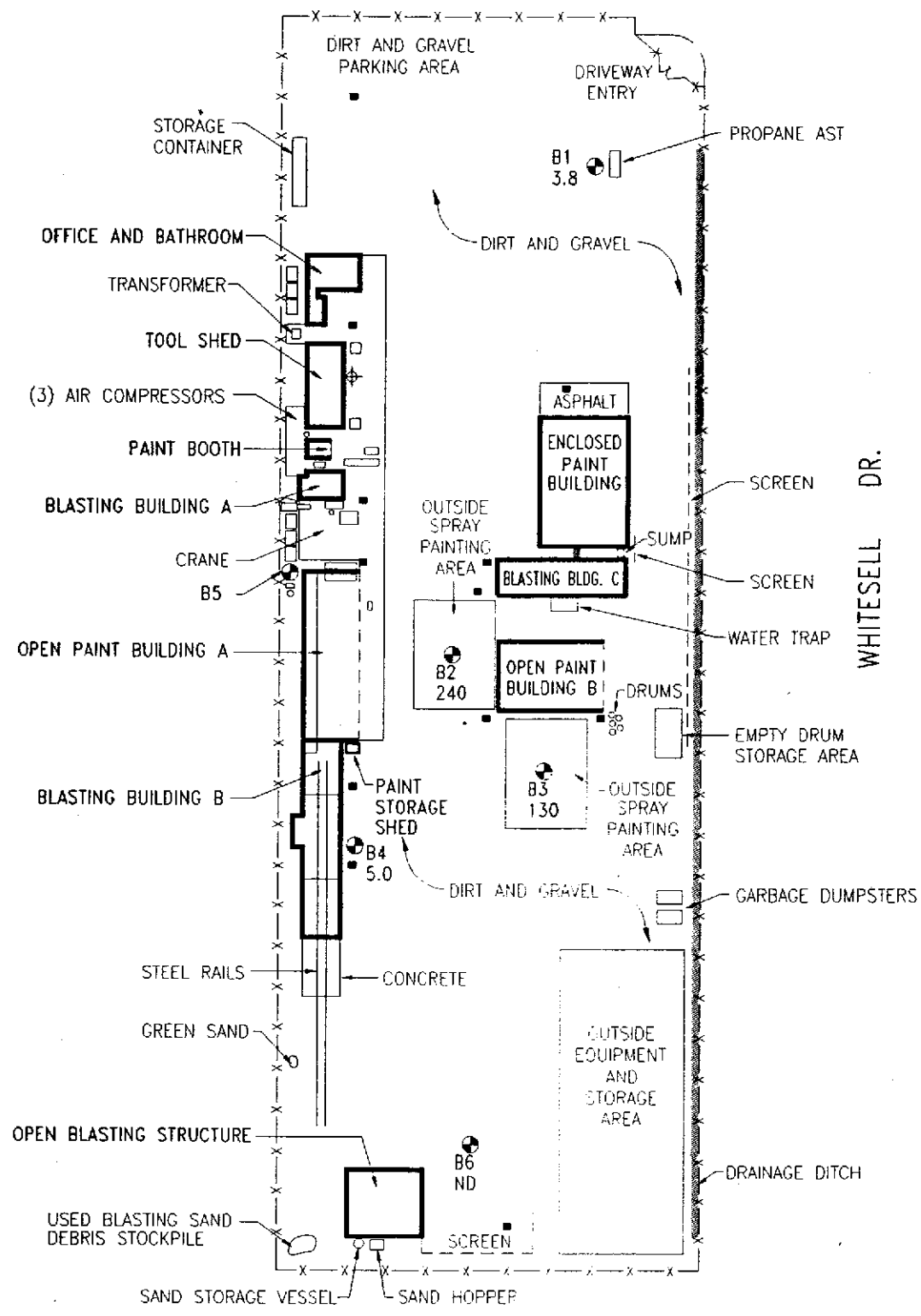
- AST = ABOVEGROUND STORAGE TANK
- = STORM DRAIN
- ⊙ = GEOPROBE BORE LOCATION
- 1.1 = CONCENTRATION (parts per billion)
- ND = NON DETECTABLE

GRAB GROUNDWATER CIS-1,  
2-DCE CONCENTRATION MAP  
JUNE 7, 1996  
RUNNELS INDUSTRIES, INC.  
3590 ENTERPRISE AVE.  
HAYWARD, CA

FIGURE  
**4**

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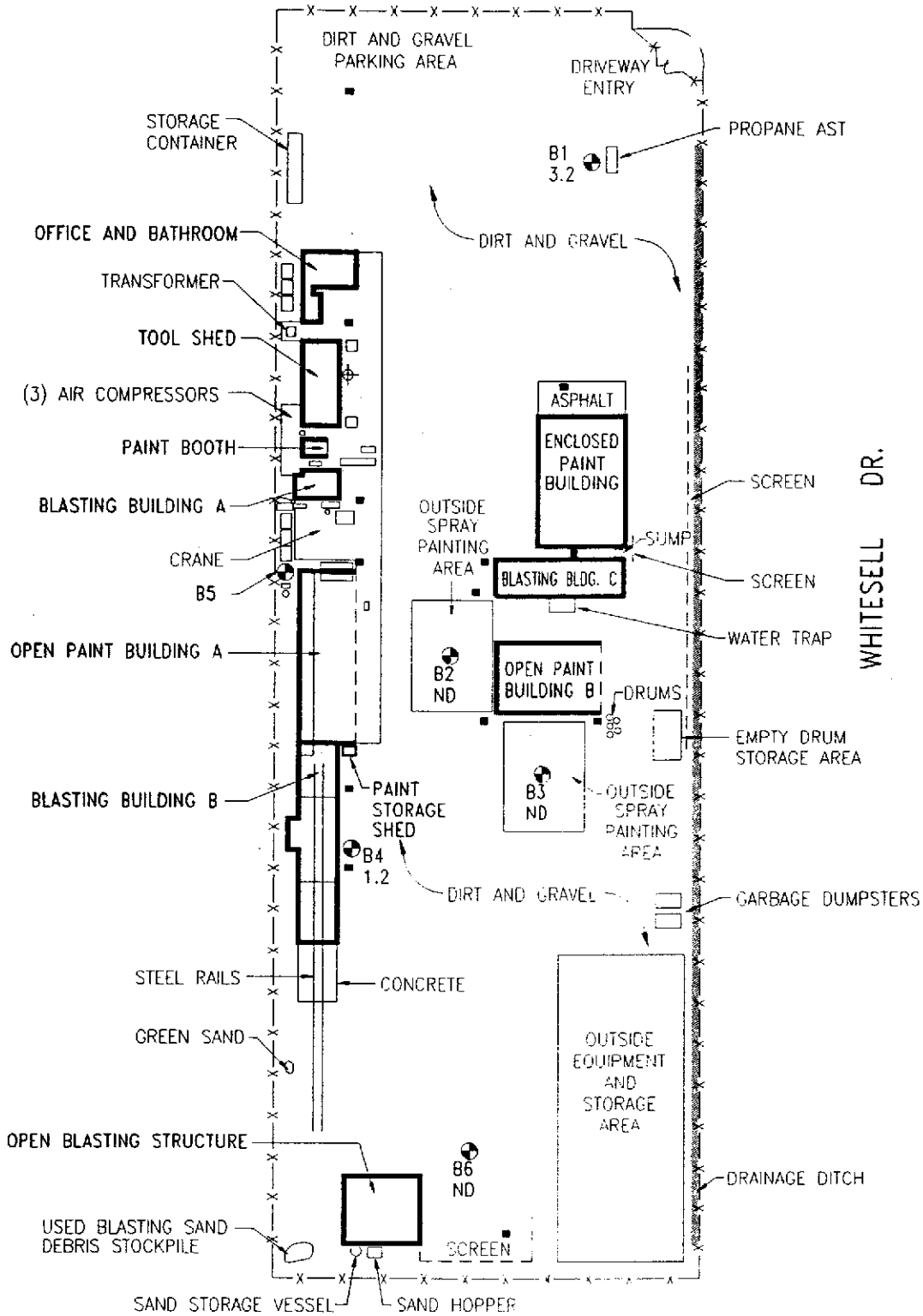
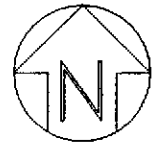
ENTERPRISE AVE.




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|                                       |                           |   |  |   |
|---------------------------------------|---------------------------|---|--|---|
| <p><b>BLYMYER ENGINEERS, INC.</b></p> |                           | <p><b>LEGEND</b></p> <p>AST = ABOVEGROUND STORAGE TANK</p> <p>■ = STORM DRAIN</p> <p>⊙ = GEOPROBE BORE LOCATION</p> <p>3.8 = CONCENTRATION (parts per million)</p> <p>ND = NON DETECTABLE</p> | <p><b>GRAB GROUNDWATER 1,1-DCE CONCENTRATION MAP</b></p> <p>JUNE 7, 1996</p> <p><b>RUNNELS INDUSTRIES, INC.</b></p> <p>3590 ENTERPRISE AVE.</p> <p>HAYWARD, CA</p> | <p><b>FIGURE</b></p> <p style="font-size: 2em;">5</p> |
| <p>BEI JOB NO.</p> <p>96004</p>       | <p>DATE</p> <p>7-9-96</p> |   |  |   |

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|  <b>BLYMYER</b><br>ENGINEERS, INC. |                |
| BEI JOB NO.<br>96004  | DATE<br>7-9-96 |

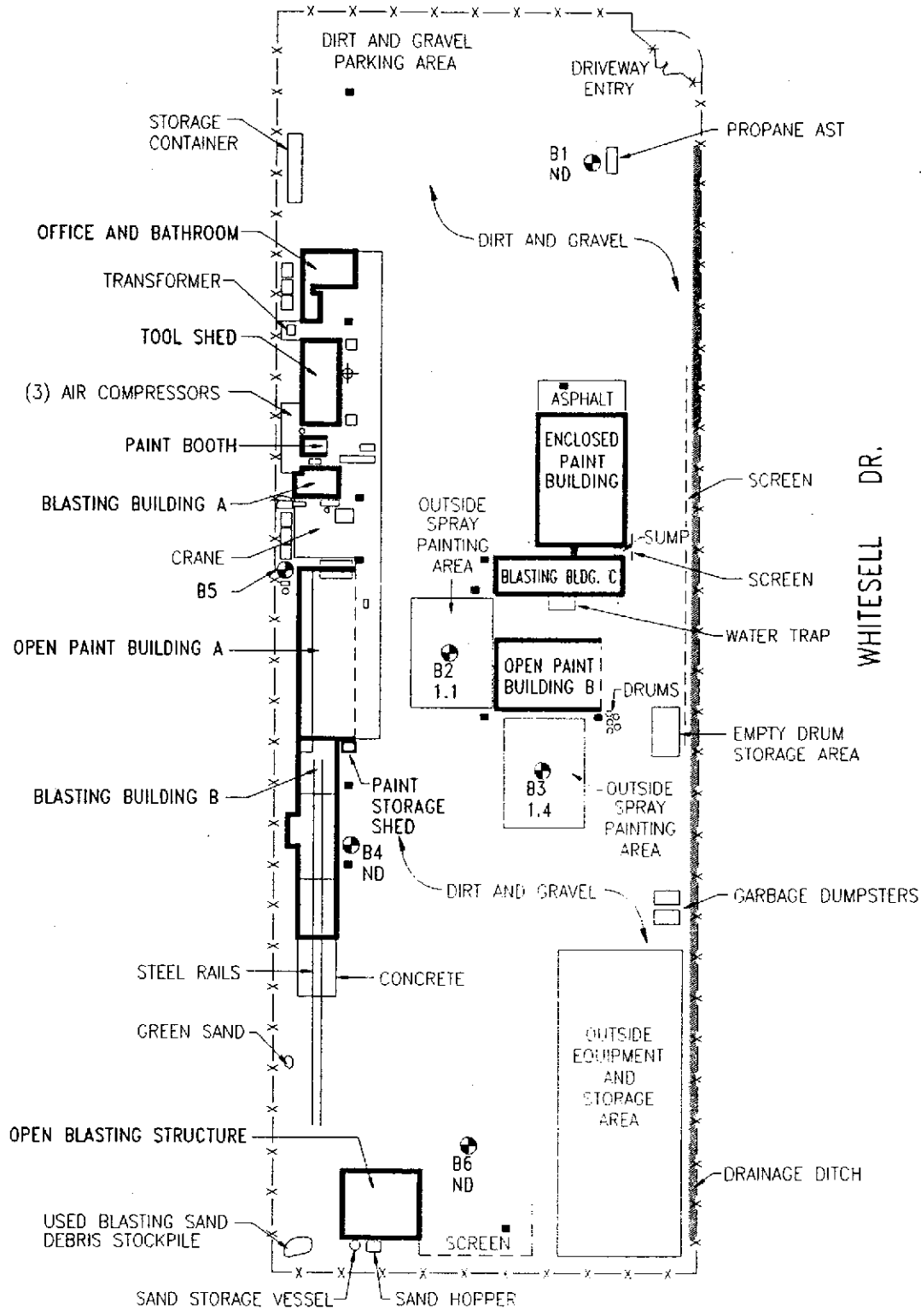
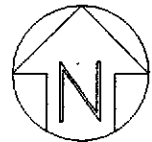
**LEGEND**

- AST = ABOVEGROUND STORAGE TANK
- = STORM DRAIN
- = GEOPROBE BORE LOCATION
- 3.2 = CONCENTRATION (parts per billion)
- ND = NON DETECTABLE

**GRAB GROUNDWATER PCE CONCENTRATION MAP**  
 JUNE 7, 1996  
 RUNNELS INDUSTRIES, INC.  
 3590 ENTERPRISE AVE.  
 HAYWARD, CA

**FIGURE**  
6

ENTERPRISE AVE.



WHITESSELL DR.

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**BLYMYER**  
ENGINEERS, INC.

BEI JOB NO.  
96004

DATE  
7-9-96

LEGEND

- AST = ABOVEGROUND STORAGE TANK
- = STORM DRAIN
- ⊙ = GEOPROBE BORE LOCATION
- 1.1 = CONCENTRATION (parts per billion)
- ND = NON DETECTABLE

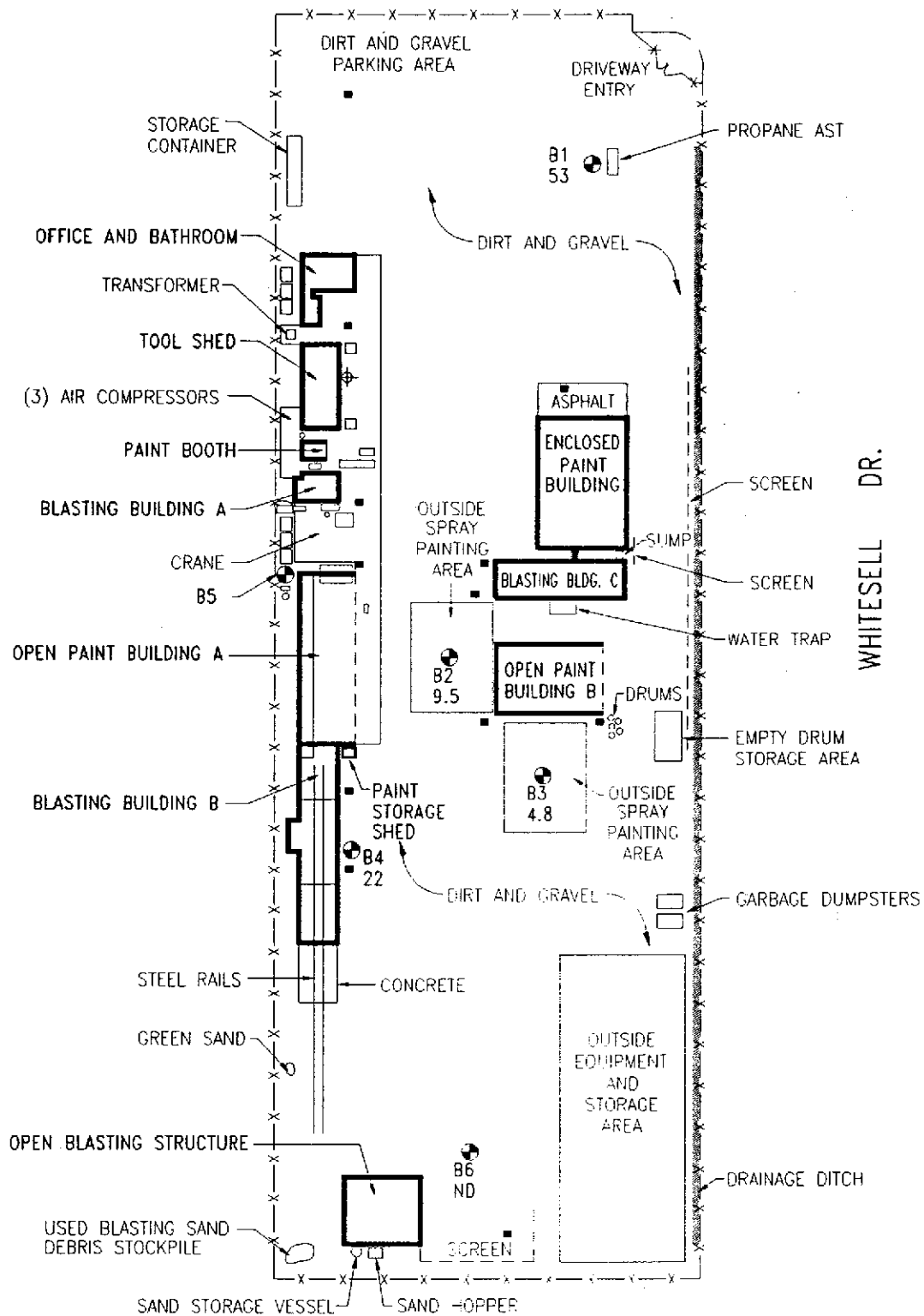
GRAB GROUNDWATER 1,1,2-TCA CONCENTRATION MAP  
JUNE 7, 1996  
RUNNELS INDUSTRIES, INC.  
3590 ENTERPRISE AVE.  
HAYWARD, CA

FIGURE

7

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| BEI JOB NO.                               | DATE   |
| 96004                                     | 7-9-96 |

**LEGEND**

- AST = ABOVEGROUND STORAGE TANK
- = STORM DRAIN
- ⊙ = GEOPROBE BORE LOCATION
- 53 = CONCENTRATION (parts per billion)
- ND = NON DETECTABLE

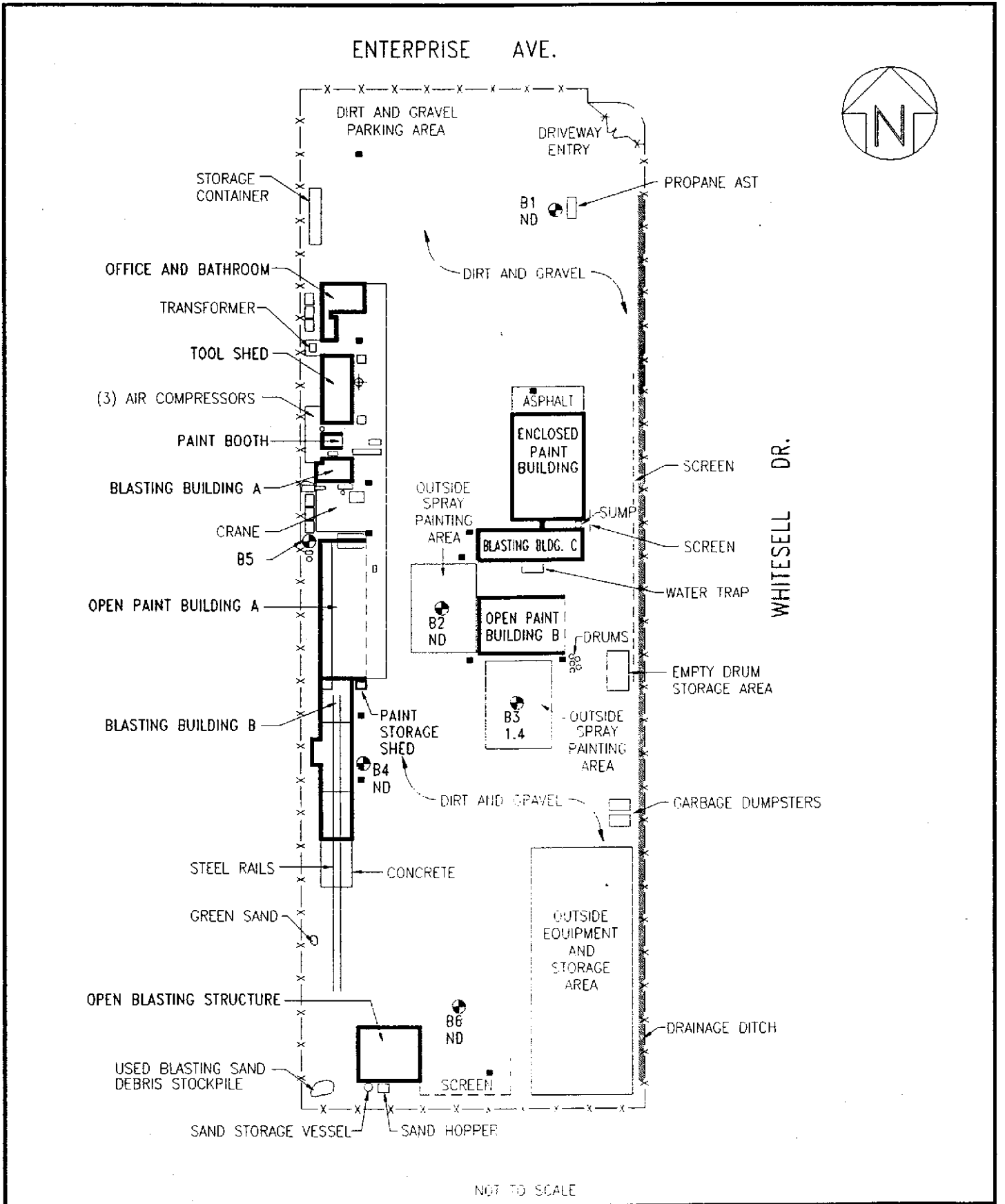
**GRAB GROUNDWATER TCE CONCENTRATION MAP**  
 JUNE 7, 1996  
**RUNNELS INDUSTRIES, INC.**  
 3590 ENTERPRISE AVE.  
 HAYWARD, CA

**FIGURE**


8

BLYMYER ENGINEERS, INC. 11000 WILSON AVENUE, SUITE 100, HAYWARD, CA 94541

REPRODUCED FROM THE ORIGINAL DRAWING. THIS DRAWING IS THE PROPERTY OF BLYMYER ENGINEERS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



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|  <b>BLYMYER ENGINEERS, INC.</b> |  | <b>LEGEND</b><br>AST = ABOVEGROUND STORAGE TANK<br>■ = STORM DRAIN<br>● = GEOPROBE BORE LOCATION<br>1.4 = CONCENTRATION (parts per billion)<br>ND = NON DETECTABLE | <b>GRAB GROUNDWATER VINYL CHLORIDE CONCENTRATION MAP</b><br>JUNE 7, 1996<br>RUNNELS INDUSTRIES, INC.<br>3590 ENTERPRISE AVE.<br>HAYWARD, CA | <b>FIGURE</b><br><div style="font-size: 2em; text-align: center;">9</div> |
|  |  |  |   |   |





**Attachment A**  
**Zone 7 Water Agency Drilling Permit**



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Rumrals Industries, Inc.  
3590 Enterprise Ave.  
Hayward, CA 94545

PERMIT NUMBER 96397  
LOCATION NUMBER \_\_\_\_\_

CLIENT  
Name A. B. Gant / Rumrals Industries, Inc.  
Address 3590 Enterprise Ave. Voice 510/385-4171  
Hayward, CA 94545 Zip 94545

### PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT  
Name Blymyer Engineers, Inc. Fax 510/865-2514  
Address 1829 Clement Ave. Voice 510/502-3773  
Alameda CA Zip 94501

### A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

### B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT  
 Construction  Geotechnical Investigation  
 Cathodic Protection  General  
 Water Supply  Contamination  
 Monitoring  Well Destruction  
Temporary

PROPOSED WATER SUPPLY WELL USE  
 Domestic  Industrial  Other -NA-  
 Municipal  Irrigation

DILLING METHOD:  
 Rotary  Air Rotary  Auger  
 Other Genprobe

DILLER'S LICENSE NO. CSF-485105

WELL PROJECTS  
Drill Hole Diameter 2 in. Maximum  
Casing Diameter 12 in. Depth 12 ft.  
Surface Seal Depth 12 ft. Number 6

GEOTECHNICAL PROJECTS  
Number of Borings \_\_\_\_\_ Maximum  
Hole Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.

ESTIMATED STARTING DATE 6/7/96  
ESTIMATED COMPLETION DATE 6/7/96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-69.

Approved Wyman Hong Date 5 Jun 96  
Wyman Hong

APPLICANT'S SIGNATURE Mark E. [Signature] Date 5/31/96

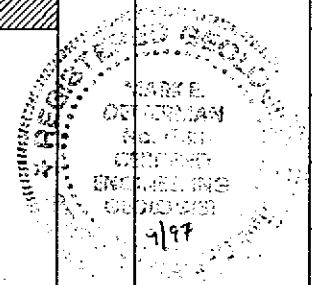


Job No.: 98004  
 Client: Runnels Industries, Inc.  
 Site: 3590 Enterprise Avenue  
 Hayward, California  
 Date Drilled: June 7, 1998  
 Logged By: M. Detterman

Drilling Company: Gregg Drilling and Testing  
 Driller: Paul  
 Drilling Equipment: GeoProbe 5400  
 Sample Method: 4 ft. HOPE sleeve  
 Soil Bore Diameter: 2 in.  
 Total Depth Drilled: 18 ft.

Initial Water Depth: ∇ 15 ft.  
 Stabilized Water Depth: ∇ 8.5 ft.

| Depth (ft.) | Blows/8 in. | P.I.D. (ppm) | Sample Intervals | LITHOLOGIC DESCRIPTION   |    |  | Unified Soil Classification | Graphic Log | Water Depth |
|-------------|-------------|--------------|------------------|--|----|--|-----------------------------|-------------|-------------|
|             |             |              |                  |  |    |  |                             |             |             |
| 0           |             |              |                  | Olive green sandy Gravel, 20% sand, medium; angular gravel, FILL   | GP |  |                             |             |             |
|             |             |              |                  | Medium brown clayey SAND, with gravel; 20% clay; sand, fine to medium; 10% gravel, subangular, up to 0.25 inches diameter; moist; FILL | SC |  |                             |             |             |
|             |             |              |                  | Black silty CLAY; plastic; moist   |    |  |                             |             |             |
| 5           | BI-3        |              |                  | As above; grades dark brown; 30% caliche blebs to 0.25 inches  |    |  |                             | ∇ 8.5'      |             |
| 10          |             |              |                  | As above; grades gray-brown mottled with 25% orange-brown; trace fine sand; moist  | CL |  |                             |             |             |
| 15          |             |              |                  | Light brown clayey SILT/silty CLAY; very moist   |    |  |                             | ∇ 15'       |             |
| 18          |             |              |                  | Soil bore terminated at 18 feet  |    |  |                             |             |             |
| 20          |             |              |                  |  |    |  |                             |             |             |



**Job No.:** 98004  
**Client:** Runnels Industries, Inc.  
**Site:** 3590 Enterprise Avenue  
 Hayward, California  
**Date Drilled:** June 7, 1998  
**Logged By:** M. Detterman

**Drilling Company:** Gregg Drilling and Testing  
**Driller:** Paul  
**Drilling Equipment:** GeoProbe 5400  
**Sample Method:** 4 ft. HOPE sleeve  
**Soil Bore Diameter:** 2 in.  
**Total Depth Drilled:** 18 ft.

**Initial Water Depth:** 14 ft.  
**Stabilized Water Depth:** 8.5 ft.

| Depth (ft.) | Blows/6 in. | P.I.D. (ppm) | Sample Intervals | LITHOLOGIC DESCRIPTION   |  |    | Unified Soil Classification | Graphic Log | Water Depth |
|-------------|-------------|--------------|------------------|--|--|----|-----------------------------|-------------|-------------|
|             |             |              |                  |  |  |    |                             |             |             |
| 0           |             |              |                  | Medium brown silty SAND; 70% sand, fine to medium; 20% silt, 20% gravel, fine; dry to damp; FILL |  | SM |                             |             |             |
|             |             |              |                  | Black silty CLAY; plastic; moist   |  |    |                             |             |             |
| 5           |             |              |                  | As above; grades dark brown  |  |    |                             | 8.5'        |             |
|             |             |              |                  | As above; grades whitish-green (caliche); greenish along rootlets; moist                         |  |    |                             |             |             |
| 10          |             |              |                  | As above; grades dark brown; moist   |  | CL |                             |             |             |
| 15          |             |              |                  |  |  |    |                             | 14'         |             |
|             |             |              |                  | Soil bore terminated at 18 feet  |  |    |                             |             |             |
| 20          |             |              |                  |  |  |    |                             |             |             |



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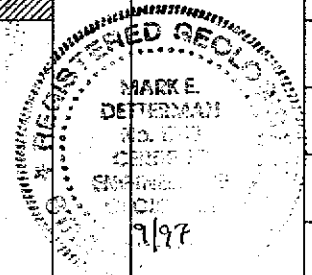
ENGINEERS, INC.

## SOIL BORE LOG: B3

**Job No.:** 88004  
**Client:** Runnels Industries, Inc.  
**Site:** 3590 Enterprise Avenue  
 Hayward, California  
**Date Drilled:** June 7, 1998  
**Logged By:** M. Detterman

**Drilling Company:** Gregg Drilling and Testing  
**Driller:** Paul  
**Drilling Equipment:** GeoProbe 5400  
**Sample Method:** 4 ft. HDPE sleeve  
**Soil Bore Diameter:** 2 in.  
**Total Depth Drilled:** 18 ft.

| Depth (ft.)            | Blows/8 in. | P.I.D. (ppm) | Sample Intervals   | Initial Water Depth: 14 ft.<br>Stabilized Water Depth: 8.5 ft. |             |             |
|------------------------|-------------|--------------|--|--|-------------|-------------|
|                        |             |              |  | Unified Soil Classification                                    | Graphic Log | Water Depth |
| LITHOLOGIC DESCRIPTION |             |              |  |  |             |             |
| 0                      |             |              |  | SM   |             | 0           |
|                        |             |              | Medium brown silty SAND with gravel, with greenish cast; 70% fine to medium sand; 10% subangular gravel, to 0.25 inch diameter; dry; FILL    | CL   |             |             |
|                        | B3-2.0      |              | Medium brown silty CLAY with gravel; 15% fine gravel; damp; FILL   | SM   |             |             |
|                        |             |              | Medium brown silty SAND with gravel, with greenish cast; 70% sand, fine to medium; 10% gravel, subangular, to 0.25 inch diameter; damp; FILL |  |             |             |
| 5                      |             |              | Black silty CLAY; plastic; moist   |  |             | 5           |
|                        |             |              |  |  |             | 8.5'        |
| 10                     |             |              | As above; grades light brown; dense; moist   | CL   |             | 10          |
|                        |             |              | As above; grades light yellow brown; trace fine sand   |  |             |             |
| 15                     |             |              |  |  |             | 15          |
|                        |             |              |  |  |             | 14'         |
|                        |             |              | Soil bore terminated at 18 feet  |  |             |             |
| 20                     |             |              |  |  |             | 20          |



# BLMYER


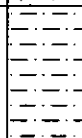

ENGINEERS, INC.

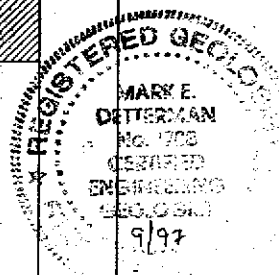
## SOIL BORE LOG: B4

**Job No.:** 98004  
**Client:** Runnels Industries, Inc.  
**Site:** 3580 Enterprise Avenue  
 Hayward, California  
**Date Drilled:** June 7, 1998  
**Logged By:** M. Detterman

**Drilling Company:** Gregg Drilling and Testing  
**Driller:** Paul  
**Drilling Equipment:** GeoProbe 5400  
**Sample Method:** 4 ft. HDPE sleeve  
**Soil Bore Diameter:** 2 in.  
**Total Depth Drilled:** 18 ft.

**Initial Water Depth:** ♀ 14 ft.  
**Stabilized Water Depth:** ♀ 8 ft.

| Depth (ft.) | Blows/6 in. | P.I.D. (ppm) | Sample Intervals | LITHOLOGIC DESCRIPTION  |  |  | Unified Soil Classification | Graphic Log  | Water Depth |
|-------------|-------------|--------------|------------------|---|--|--|-----------------------------|--|-------------|
|             |             |              |                  |   |  |  |                             |  |             |
| 0           |             |              |                  | Medium brown and greenish black silty SAND; 30% greenish black and 40% medium brown sand, fine to medium; dry; FILL   |  |  | SM                          |   |             |
|             | B4-1.0      |              |                  | Medium brown clayey SILT; slightly plastic; damp  |  |  | ML                          |   |             |
| 5           |             |              |                  | Grades dark brown silty CLAY; plastic; moist<br>Grades gray green; diffuse caliche throughout; plastic; moist<br>Grades mottled black and olive green; soft; very moist |  |  | CL                          |  | 8'          |
| 10          |             |              |                  | As above; grades increasing black and decreasing green in color   |  |  |                             |  |             |
| 15          |             |              |                  | Soil bore terminated at 18 feet   |  |  |                             |  |             |
| 20          |             |              |                  |   |  |  |                             |  |             |



# BLMYER

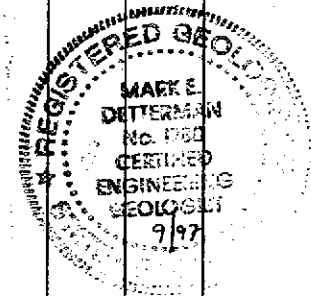
ENGINEERS, INC.

## SOIL BORE LOG: B5

Job No.: 98004  
 Client: Runnels Industries, Inc.  
 Site: 3590 Enterprise Avenue  
 Hayward, California  
 Date Drilled: June 7, 1998  
 Logged By: M. Detterman

Drilling Company: Gregg Drilling and Testing  
 Driller: Paul  
 Drilling Equipment: GeoProbe 5400  
 Sample Method: 4 ft. HDPE sleeve  
 Soil Bore Diameter: 2 in.  
 Total Depth Drilled: 1.5 ft.

| Depth (ft.)            | Blows/8 in. | P.I.D. (ppm) | Sample Intervals  | Initial Water Depth: ∇ 1.5 ft.<br>Stabilized Water Depth: ∇ |             |             |
|------------------------|-------------|--------------|---|---|-------------|-------------|
|                        |             |              |   | Unified Soil Classification                                 | Graphic Log | Water Depth |
| LITHOLOGIC DESCRIPTION |             |              |   |   |             |             |
| 0                      | 85-0.5      |              | Dark brown sandy CLAY with gravel; 35% sand, medium to coarse; 15% gravel, medium, angular; moist; FILL | CL  |             |             |
|                        |             |              | Black silty CLAY; plastic; soft; very moist   | CL  |             | ∇ 1.5'      |
|                        |             |              | Soil bore terminated at 1.5 feet  |   |             |             |
| 5                      |             |              |   |   |             |             |
| 10                     |             |              |   |   |             |             |
| 15                     |             |              |   |   |             |             |
| 20                     |             |              |   |   |             |             |





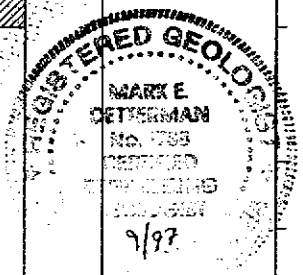
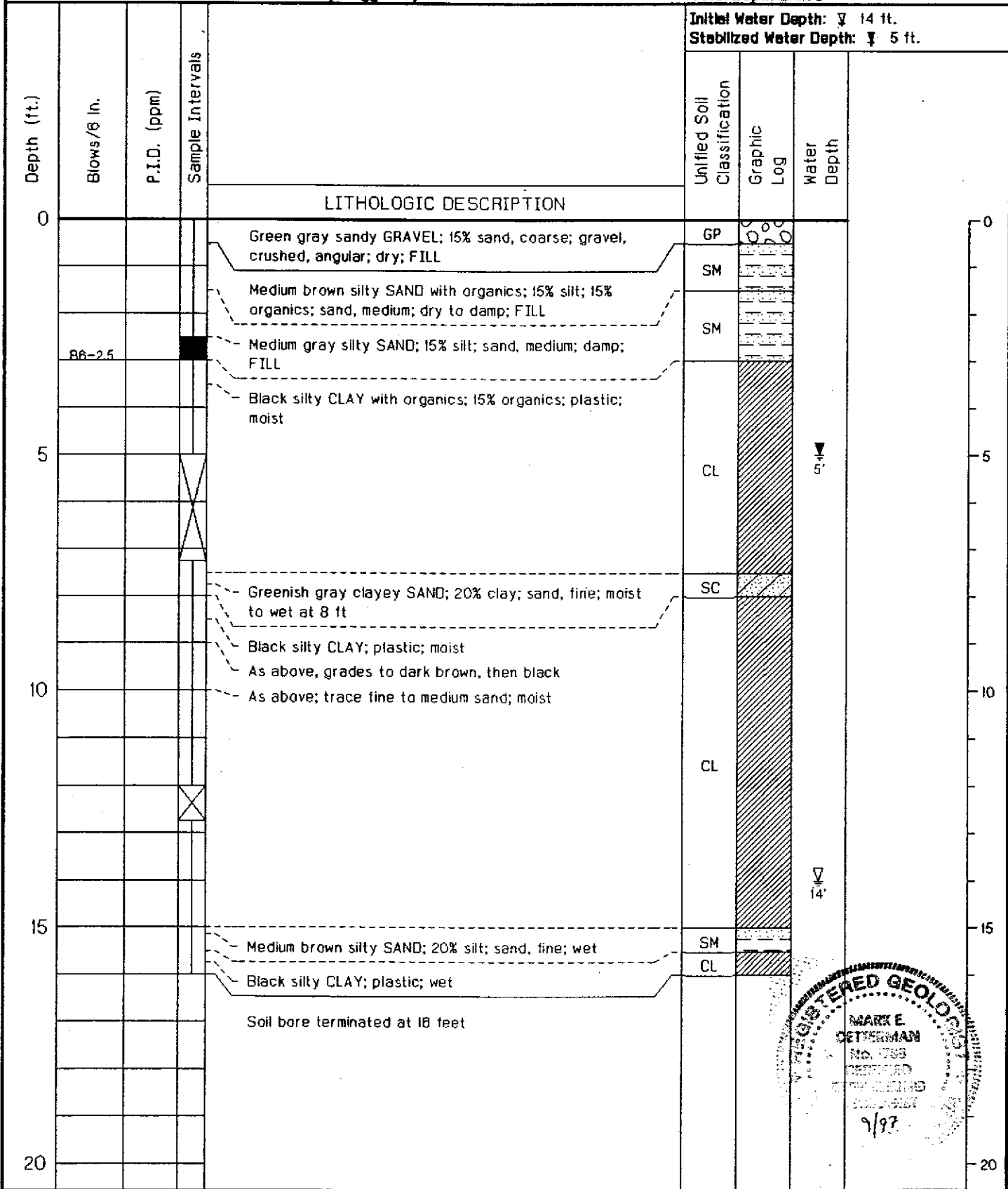
# SOIL BORE LOG: B6

**BLMYER**  
ENGINEERS, INC.

**Job No.:** 98004  
**Client:** Runnels Industries, Inc.  
**Site:** 3590 Enterprise Avenue  
Hayward, California  
**Date Drilled:** June 7, 1998  
**Logged By:** M. Detterman

**Drilling Company:** Gregg Drilling and Testing  
**Driller:** Paul  
**Drilling Equipment:** GeoProbe 5400  
**Sample Method:** 4 ft. HDPE sleeve  
**Soil Bore Diameter:** 2 in.  
**Total Depth Drilled:** 18 ft.

**Initial Water Depth:** ∇ 14 ft.  
**Stabilized Water Depth:** ∇ 5 ft.





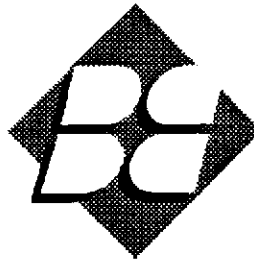
Attachment C

Blymyer Engineers' Standard Operating Procedure No. 4

*Soil and Grab Groundwater Sampling Using*

*Hydraulically-Driven Sampling Equipment, Revision No. 1*

dated September 1, 1994



**BLYMYER**  
ENGINEERS, INC.

*Standard Operating Procedure No. 4*

*Soil and Grab Groundwater Sampling Using  
Hydraulically-Driven Sampling Equipment*

Revision No. 1

Approved By:

\_\_\_\_\_  
Michael Lewis  
Quality Assurance/Quality Control Officer  
Blymyer Engineers, Inc.

9/1/94

\_\_\_\_\_  
Date

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### Attachments:

Boring and Well Construction Log  
Drum Inventory Sheet

## 1.0 Introduction and Summary

This Standard Operating Procedure (SOP) describes methods for drilling with the use of hydraulically-driven equipment, soil sampling with the use of split-spoon samplers, and grab groundwater sampling through an open borehole. Drilling activities covered by this SOP are conducted to obtain soil and grab groundwater samples. Soil samples may be obtained to log subsurface materials, to collect samples for chemical characterization, or to collect samples for physical parameter characterization.

The soil sampling techniques described in this SOP are generally suitable for chemical characterization and physical classification tests; because a driven split-spoon sampler is employed, the resulting soil samples should generally be considered "disturbed" with respect to physical structure and may not be suitable for measuring sensitive physical parameters, such as strength and compressibility. The techniques described in this SOP generally produce a borehole with a diameter corresponding to the outside diameter of the drill rods, a relatively small annulus of remolded soil surrounding the outside diameter of the drill rods, and limited capability for cross-contamination between subsurface strata as the leading drill rods pass from contaminated strata to uncontaminated underlying strata. However, should conditions require strict measures to help prevent cross-contamination or maintain the integrity of an aquitard, consideration should be given to augmenting the procedures of this SOP, for example, by using pre-drilled and grouted isolation casing.

The procedures for hydraulically-driven soil sampling generally consist of initial decontamination, advancement of the drill rods, driving and recovery of the split-spoon sampler, logging and packaging of the soil samples, decontamination of the split-spoon and continued driving and sampling until the total depth of the borehole is reached. Withdrawal of the drill rods upon reaching the total depth requires completion of the borehole by grouting or other measures.

## 2.0 Equipment and Materials

- Drill rods and drive-weight assembly (hydraulic hammer or vibrator) for driving the drill rods and split-spoon sampler.
- Split-spoon sampler should conform to ASTM D 1586-Standard Method for Penetration Test and Split-Barrel Sampling of Soils, except: (1) split-spoon should be fitted with liners for collection of chemical characterization samples, and (2) allowable split-spoon diameters include nominal 1.5-inch inside diameter by nominal 2-inch outside diameter (Standard Penetration Test split-spoon), nominal 2-inch inside diameter by nominal

---

*Blymyer Engineers, Inc.*

*Standard Operating Procedure No. 4*

*Soil and Grab Groundwater Sampling Using Hydraulically-Driven Sampling Equipment*

*Revision No. 1*

2.5-inch outside diameter (California Modified split-spoon), or nominal 2-1/2-inch inside diameter by nominal 3-inch outside diameter (Dames & Moore split-spoon). The split-spoon type and length of the split barrel portion of the sampler should be noted on the Boring and Well Construction Log (copy attached), as should the use of a sample catcher if employed.

- Liners should be 3- to 6-inch length, fitted with plastic end caps, brass or stainless steel, with a nominal diameter corresponding to that of the inside diameter of the split-spoon sampler. The Boring and Well Construction Log should note whether brass or stainless steel liners were used.
- Teflon® sheets, approximate 6-mil thickness, precut to a diameter or width of the liner diameter plus approximately 1 inch.
- Plastic end caps.
- Adhesiveless silicone tape.
- Disposable polyethylene bailer.
- Type I/Type II Portland cement.
- Groundwater sample containers (laboratory provided only).
- Kimwipes®, certified clean silica sand, or deionized water (for blank sample preparation).
- Sample labels, Boring and Well Construction Logs, chain-of-custody forms, drum labels, Drum Inventory Sheet (copy attached), and field notebook.
- Ziploc® plastic bags of size to accommodate a liner.
- Stainless steel spatula and knife.
- Cooler with ice or dry ice (do not use blue ice) and packing material.
- Field organic vapor monitor. The make, model, and calibration information for the field organic vapor monitor (including compound and concentration of calibration gas) should be noted in the field notebook.

---

*Blymyer Engineers, Inc.*

*Standard Operating Procedure No. 4*

*Soil and Grab Groundwater Sampling Using Hydraulically-Driven Sampling Equipment*

*Revision No. 1*

- Pressure washer or steam cleaner.
- Large trough (such as a water tank for cattle), plastic-lined pit, or equivalent for decontamination of drill rod and end plug.
- Buckets and bristle brushes for decontamination of liners, split-spoon sampler, and other small gear.
- Low-residue, organic-free soap such as Liquinox<sup>®</sup> or Alconox<sup>®</sup>.
- Distilled water.
- Heavy plastic sheeting such as Visqueen.
- 55-gallon, open-top, DOT-approved, 17H drums
- 5-gallon open-top DOT-approved pails, if required.

As specified in the Site Safety Plan, additional safety and personnel decontamination equipment and materials may be needed.

### **3.0 Typical Procedures**

The following typical procedures are intended to cover the majority of hydraulic drilling and sampling conditions. However, normal field practice requires re-evaluation of these procedures and implementation of alternate procedures upon encountering unusual or unexpected subsurface conditions. Deviations from the following typical procedures may be expected and should be noted on the Boring and Well Construction Log.

1. Investigate location of the proposed boreholes for buried utilities and obstructions. At least 48 hours before drilling, contact known or suspected utility services individually or through collective services such as "Underground Service Alert."
2. Decontaminate drill rods, split-spoon sampler, and other drilling equipment immediately prior to mobilization to the site.
3. Calibrate field organic vapor monitor equipment in accordance with the manufacturer's specifications. Note performance of the calibration in the geologist's field notebook.

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4. Conduct "tail-gate" meeting and secure the work area in accordance with the Site Safety Plan.
5. Core concrete, if required.
6. Using hand-augering device, hand auger to a depth of 5 feet, if feasible, to clear underground utilities and structures not located by a utility service or on drawings. As appropriate, retain private buried utility location services or geophysical investigation services to search for buried utilities and obstructions. During initial advancement of each borehole, drill cautiously and have the driller pay particular attention to the "feel" of drilling conditions. The suspected presence of an obstruction, buried pipeline or cable, utility trench backfill, or similar may be cause for suspension of drilling, subject to further investigation.
7. Advance drill rods, or nested drill rods, to the desired sampling depth using hydraulic hammer or vibrator. Note depth interval, augering conditions, and driller's comments on Boring and Well Construction Log. Samples should be collected at intervals of 5 feet or less in homogeneous strata and at detectable changes of strata.

The sampling procedure varies depending on whether the drill rods are nesting-type. With nesting-type drill rods, the inner and outer drill rods are driven simultaneously. As they are driven, soil is forced into the lined inner drill rod. The outer drill rod is left in place and the inner drill rod is relined with sample sleeves and replaced for the next sampling segment. Where nesting-type drill rods are not used, a split-spoon sampler is used. The following sampling procedures cover sampling with a split-spoon sampler:

8. Remove drill rod and note presence of water mark on drill rod, if any. Also, monitor the top of hollow drill rods using field organic vapor monitor, as appropriate.
9. Decontaminate split-spoon sampler, liners, spatulas and knives, and other equipment that may directly contact the chemical characterization sample. Fit the split-spoon sampler with liners and attach to drill rod.
10. Lower split-spoon sampler until sampler is resting on soil. If more than 6 inches of slough exists inside the borehole, consider the conditions unsuitable and re-advance the drill rods and sampler to a new sampling depth.

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11. Drive and recover split-spoon sampler. Record depth interval and sample recovery on Boring and Well Construction Log. Monitor the recovered split-spoon sampler with the field organic vapor monitor, as appropriate.
12. Remove either bottom-most or second-from-bottom liner (or both) from split-spoon sampler for purposes of chemical characterization and physical parameter testing. Observe soil at each end of liner(s) for purposes of completing sample description. Place Teflon<sup>®</sup> sheet at each end of liner, cover with plastic caps, and tape plastic caps with adhesiveless silicone tape (do not use electrical or duct tape) to further minimize potential loss of moisture or volatile compounds. Label liner(s) and place in Ziploc<sup>®</sup> bag on ice or dry ice inside cooler.
13. Extrude soil from remaining liner(s) and subsample representative 1-inch cube (approximate dimensions). Place subsample in Ziploc<sup>®</sup> bag and seal. Allow bag to equilibrate at ambient conditions for approximately 5 minutes and screen for organic vapors by inserting the probe of the field organic vapor monitor into the bag. Record depth interval, observed sample reading, and ambient (background) reading on the Boring and Well Construction Log. Discard bag and sample after use in the solid waste stockpile.
14. Classify soil sample in approximate accordance with ASTM D 2488-Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) and in accordance with the Unified Soil Classification System (USCS). Description should include moisture content, color, textural information, group symbol, group name, and odor. Optional descriptions, especially if classification is performed with protective gloves, include particle angularity and shape, clast composition, plasticity, dilatancy, dry strength, toughness, and reaction with HCl. Add notes on geologic structure of sample, as appropriate. Record depth interval, field organic vapor monitor reading, USCS classification, and other notes on the Boring and Well Construction Log.
15. Repeat steps 7 through 14 until total depth of borehole is reached.
16. If a grab groundwater sample is to be collected, slowly lower bailer through the open borehole to minimize agitation and aeration of the sampled water. Transfer the grab groundwater sample into sample container(s). Label sample container(s), place packing materials around containers, and place on ice inside cooler.
17. After drill rods are removed, complete borehole according to the requirements specified elsewhere or by abandonment in accordance with section 8.0.

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18. Decontaminate drill rods between boreholes and after finishing last borehole prior to drill rig leaving site.
19. Change decontamination solutions and clean decontamination trough, buckets, and brushes between boreholes.
20. Containerize decontamination liquids in 17H steel drums. Affix completed "Caution - Analysis Pending" labels to the drums.
21. Store any excess soil sample on and cover with heavy plastic sheeting. If required by local regulations or due to site constraints, store excess soil sample in 5-gallon pails. Affix completed "Caution - Analysis Pending" labels to drums.
22. Complete Drum Inventory Sheet.
23. Complete pertinent portion of the chain-of-custody form and enter descriptions of field work performed in the field notebook.

#### **4.0 Quality Assurance and Quality Control (QA/QC)**

Optional quality control sampling consists of sequential replicates, collected at an approximate frequency of one sequential replicate for every 10 collected soil samples. Sequential replicates are collected by packaging two adjacent liners of soil from a selected split-spoon drive. Each sample is labeled according to normal requirements. The replicate samples obtained in such a manner are suitable for assessing the reproducibility of both chemical and physical parameters. Interpretations of data reproducibility should recognize the potential for significant changes in soil type, even over 6-inch intervals. Accordingly, sequential replicates do not supply the same information as normally encountered in duplicate or split samples. Duplicate or split samples are better represented by the laboratory performing replicate analyses on adjacent subsamples of soil from the same liner.

Optional quality control samples may be collected to check for cross-contamination using field blanks. Field blanks may be prepared by (1) wipe sampling decontaminated liners and split-spoon with Kimwipes<sup>®</sup>, (2) pouring clean silica sand into a decontaminated split-spoon sampler that has been fitted with liners, or (3) pouring deionized water over the decontaminated liners and split-spoon sampler and collecting the water that contacts the sampling implements for aqueous analysis. Field blanks may be prepared at the discretion of the field staff given reasonable doubt regarding the efficacy of the decontamination procedures.

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The comparability of the field soil classification may be checked by conducting laboratory classification tests. Requests for laboratory testing verification of the field classification should be left to the discretion of the field staff.

Field decisions that may also affect the quality of collected data include the frequency of sampling and the thoroughness of documentation. Subject to reasonable limitations of budget and schedule, the completeness, comparability, and representativeness of data obtained using this SOP will be enhanced by decreasing the sampling interval (including collecting continuous samples with depth) and increasing the level of detail for sample classification and description of drilling conditions. More frequent sampling and more detailed documentation may be appropriate in zones of chemical concentration or in areas of critical geology (for example, zones of changing strata or cross-correlation of confining strata).

As required, rinse or wipe samples may be collected from the sampling equipment before the initial sampling is conducted to establish a baseline level of contamination present on the sampling equipment. Rinse or wipe samples may also be collected at intervals of decontamination wash and rinse events or after the final decontamination wash and rinse event.

## **5.0 Documentation**

Observations, measurements, and other documentation of the drilling and soil sampling effort should be recorded on the following:

- Sample label
- Boring and Well Construction Log
- Field notebook
- Chain-of-custody form
- Drum Inventory Sheet

Documentation should include any deviations from this SOP, notations of unusual or unexpected conditions, and documentation of the containerization and disposal of investigation-derived waste. Information to be documented on the sample label and Boring and Well Construction Log is listed below.

## 5.1 Sample Label

- Project name and project number
- Borehole number
- Sample depth interval (feet below ground surface), record the depth interval using notation similar to "19.2-19.7;" generally do not record just one depth "19.2" because of uncertainty regarding the location such depth corresponds to (midpoint, top, etc.)
- Sample date and sample time
- Name of on-site geologist
- Optional designation of orientation of sample within the subsurface, for example, an arrow with "up" or "top" designated

## 5.2 Boring Log

- Project name, project number, and name of on-site geologist
- Borehole number
- Description of borehole location, including taped or paced measurements to noticeable topographic features (a location sketch should be considered)
- Date and time drilling started and completed
- Name of drilling company and name of drilling supervisor, optional names and responsibilities of driller's helpers
- Name of manufacturer and model number of sampling rig
- Type and size of sampler, optional description of the size of drill rod
- USCS classification
- Sampling interval and total depth of borehole

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- Depth at which groundwater was first encountered with the notation "initial" and any other noted changes in groundwater movement or stabilized water level
- Field organic vapor monitor readings
- Method of boring completion
- Other notations and recordings described previously in section 2.0, Equipment and Materials, and section 3.0, Typical Procedures

## 6.0 Decontamination

Prior to entering the site, the sampling rig and appurtenant items (drill rods, split-spoon sampler, shovels, troughs and buckets, driller's stand, etc.) should be decontaminated by steam cleaning or pressure washing. Between each borehole, appurtenant items that contacted downhole soil (essentially all appurtenant items including drill rod, split-spoon sampler, shovels, troughs, and buckets, etc.) should be decontaminated by steam cleaning or pressure washing. The sampling rig should be steam cleaned or pressured washed as a final decontamination event. On-site decontamination should be conducted within the confines of a trough or lined pit to temporarily contain the wastewater. Between each borehole and prior to demobilization, the trough or lined pit should be decontaminated by steam cleaning or pressure washing. If a rack or other support is used to suspend appurtenant items over the trough or lined pit during decontamination, only the rack or other support needs to be decontaminated between boreholes.

Prior to collection of each sample, the split-spoon sampler, liners, sample catcher, spatulas and knives, and other equipment or materials that may directly contact the sample should be decontaminated. Decontamination for these items should consist of a soap wash (Alconox<sup>®</sup>, Liquinox<sup>®</sup>, or other organic-free, low-residue soap), followed by a clean water rinse. If testing for metals, a final rinse of deionized water should be conducted. Wastewater should be temporarily contained.

Between each borehole, buckets and brushes should be decontaminated by steam cleaning or pressure washing. Before installation of each borehole is begun, fresh decontamination solutions should be prepared. Decontaminated equipment should be kept off of the ground surface. Cleaned equipment should be placed on top of plastic sheeting, which is replaced after completion of each borehole, or on storage racks.

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More rigorous decontamination procedures may be employed if necessary to meet sampling or QA/QC requirements.

## **7.0 Investigation-Derived Waste**

Wastes resulting from the activities of this SOP may include excess soil samples, decontamination liquids, and miscellaneous waste (paper, plastic, gloves, bags, etc.).

Solid waste from each borehole should be placed on and covered with heavy plastic sheeting or containerized in DOT-approved 5-gallon pails. Solids from multiple boreholes may be combined within a single stockpile if field observations (presence or absence of chemical staining and field organic vapor monitoring) indicate the solids are similarly uncontaminated or similarly contaminated. Given sufficient space and reasonable doubt, separate stockpiles should be used for solid waste from each borehole.

Decontamination liquids for each borehole should be placed in individual 17H steel drums with completed "Caution - Analysis Pending" labels affixed. Liquids from multiple boreholes may be combined, subject to the same limitations as solids.

## **8.0 Borehole Abandonment**

Each borehole should be completely filled with neat cement (5.5 gallons of water in proportion to one 94-pound bag of Type I/Type II Portland cement, ASTM C-150) from the bottom of the bore to grade surface. Water used to hydrate cement should be free of contaminants and organic material. Bentonite may be added to reduce shrinkage and improve fluidity. Add 3 to 5 pounds of bentonite with 6.5 gallons of water and one 94-pound bag of Type I/Type II Portland cement. The water and bentonite should be mixed first before adding the cement. The borehole should be filled from the bottom first to grade surface. A tremie pipe should be used in small diameter boreholes or in formations prone to bridging or collapse. The tremie pipe should be lifted as the cement grout is poured, but should never be lifted above the surface of the neat cement. In boreholes deeper than 50 feet, the neat cement may need to be applied with pressure.

## **9.0 References**

Aller, L., Bennett T.W., Hackett G., Petty R.J., Lehr J.H., Sedoris H., and Nielson D.M., 1989. Handbook of Suggested Practices for the Design and Installation of Ground-Water Monitoring Wells. National Water Well Association, Dublin, OH, 1989.

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American Society for Testing and Materials, 1992. ASTM Standards On Ground Water and Vadose Zone Investigations. ASTM, Philadelphia, PA, 1992.

Driscoll, F.G., 1986. Groundwater and Wells. Johnson Filtration Systems Inc., St. Paul, MN, 1986.

Neilson, D.M., 1991. Practical Handbook of Ground-Water Monitoring. Lewis Publishers, Chelsea, MI, 1991.

United States Environmental Protection Agency, 1992. RCRA Ground-Water Monitoring: Draft Guidance Document. U.S. EPA, 1992.

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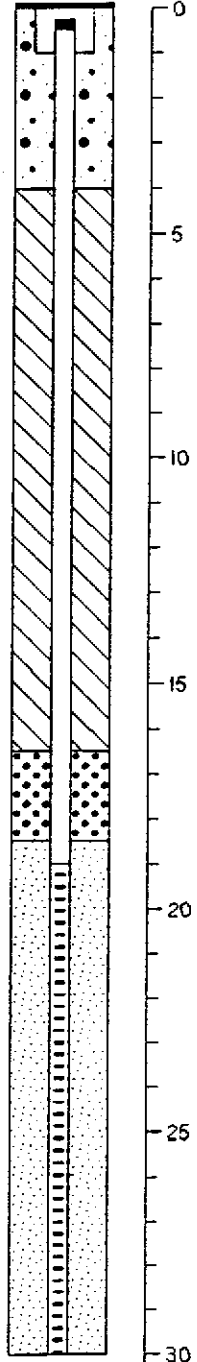
# BLYMYER

ENGINEERS, INC.

## BORING & WELL CONSTRUCTION LOG:

Job No:  
 Client:  
 Site:  
 Date Drilled:  
 Sample Container:

Driller:  
 Drilling Contractor:  
 Logged By:  
 Drilling Equipment:  
 Bore Diameter:  
 Total Depth: Ft.

| Depth (ft)  | Blows/6 In. | P.I.D. (ppm) | Samples | Well Completion Depth: ' _____  | Depths in Feet |                             | Initial Water Level: ∇ _____    |             |  |  |
|-------------|-------------|--------------|---------|---|----------------|-----------------------------|---------------------------------|-------------|--|--|
|             |             |              |         | Component Size/Type   | From           | To                          | Stabilized water level: ∇ _____ |             |  |  |
|             |             |              |         | Surface Completion:   |                | Unified Soil Classification | Graphic Log                     | Water Depth |  |  |
|             |             |              |         | Blank Casing:<br>Slotted Casing:<br>Filter Pack:<br>Seal:<br>Annular Seal:<br>Surface Seal:<br>Bottom Seal: |                |                             |                                 |             |  |  |
| DESCRIPTION |             |              |         |   |                |                             |                                 |             |  |  |
| 0           |             |              |         |   |                |                             |                                 |             |  |  |
| 5           |             |              |         |   |                |                             |                                 |             |  |  |
| 10          |             |              |         |   |                |                             |                                 |             |  |  |
| 15          |             |              |         |   |                |                             |                                 |             |  |  |
| 20          |             |              |         |   |                |                             |                                 |             |  |  |
| 25          |             |              |         |   |                |                             |                                 |             |  |  |
| 30          |             |              |         |   |                |                             |                                 |             |  |  |

(continued on next page)

## BLYMYER ENGINEERS DRUM INVENTORY FORM

| Number of Drums | Date Generated | Person on-site when generated | Soil or Groundwater | Contents (Cuttings, Purge Water, Development Water, Decon Water, PPE) | % Full | Bore or Monitoring Well ID | Do Lab Results Exist for Contents? |
|-----------------|----------------|-------------------------------|---------------------|---|--------|----------------------------|------------------------------------|
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |
|                 |                |                               |                     |   |        |                            |                                    |

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Date Client Informed? \_\_\_\_\_

All drums labeled? \_\_\_\_\_



Attachment D

Analytical Report

National Environmental Testing, Inc.

dated June 25, 1996, and July 5, 1996



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
3636 North Laughlin Road  
Suite 110  
Santa Rosa, CA 95403-8226  
Tel: (707) 526-7200  
Fax: (707) 541-2333

Mark Detterman  
Blymyer Engineers, Inc  
1829 Clement Ave  
Alameda, CA 94501

Date: 06/25/1996  
NET Client Acct. No: 49500  
NET Job No: 96.01833  
Received: 06/11/1996

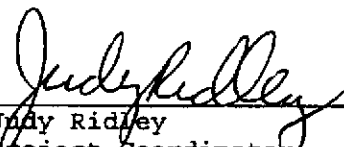
Client Reference Information

Runnels Industry/Job No. 96004



Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2307.

Submitted by:

  
\_\_\_\_\_  
Judy Ridley  
Project Coordinator

Enclosure (s)

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 2

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B6-2.5  
 Date Taken: 06/07/1996  
 Time Taken: 09:00  
 NET Sample No: 264979

| Parameter              | Results | Flags | Reporting |        | Method   | Date       | Date       | Run<br>Batch<br>No. |
|------------------------|---------|-------|-----------|--------|----------|------------|------------|---------------------|
|                        |         |       | Limit     | Units  |          | Extracted  | Analyzed   |                     |
| METHOD 6010 (SOLID)    | --      |       |           |        |          |            | 06/14/1996 | 769                 |
| Antimony (ICP)         | ND      |       | 10        | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 838                 |
| Arsenic (GFAA)         | 3.7     |       | 0.50      | mg/kg  | EPA 7060 | 06/12/1996 | 06/13/1996 | 587                 |
| Cadmium (ICP)          | ND      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 692                 |
| Chromium (ICP)         | 38      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 703                 |
| Cobalt (ICP)           | 10      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 840                 |
| Lead (GFAA)            | 40      |       | 0.20      | mg/kg  | EPA 7421 | 06/12/1996 | 06/13/1996 | 769                 |
| Mercury (CVAA)         | 0.06    |       | 0.020     | mg/kg  | EPA 7471 | 06/11/1996 | 06/12/1996 | 365                 |
| Molybdenum (ICP)       | ND      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 639                 |
| Nickel (ICP)           | 31      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 596                 |
| Zinc (ICP)             | 58      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 641                 |
| 8015M - HEAVY SCAN     |         |       |           |        |          | 06/14/1996 |            |                     |
| DILUTION FACTOR*       | 1.0     |       |           |        |          |            | 06/19/1996 | 5                   |
| as Bunker C            | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Creosote            | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Diesel              | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Hydraulic Oil       | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Kerosene            | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Motor Oil           | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Stoddard Solvent    | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Transmission Fluid  | 43      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| SURROGATE RESULTS      | --      |       |           |        |          |            | 06/19/1996 | 5                   |
| Ortho-terphenyl (SURR) | 81      |       |           | % Rec. | M8015    |            | 06/19/1996 | 5                   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 3

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B6-2.5  
 Date Taken: 06/07/1996  
 Time Taken: 09:00  
 NET Sample No: 264979

| Parameter                    | Results | Flags | Reporting |        |        | Date      | Date       | Run       |
|------------------------------|---------|-------|-----------|--------|--------|-----------|------------|-----------|
|                              |         |       | Limit     | Units  | Method | Extracted | Analyzed   | Batch No. |
| 8240(GCMS,Solid)             |         |       |           |        |        |           |            |           |
| DILUTION FACTOR*             | 1       |       |           |        |        |           | 06/13/1996 | 447       |
| Benzene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Acetone                      | 11      |       | 10        | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Bromodichloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Bromoform                    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Bromomethane                 | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 2-Butanone                   | ND      |       | 10        | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Carbon disulfide             | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Carbon tetrachloride         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Chlorobenzene                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Chloroethane                 | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 2-Chloroethyl vinyl ether    | ND      |       | 10        | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Chloroform                   | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Chloromethane                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Dibromochloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,2-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,3-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,4-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,1-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,2-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,1-Dichloroethene           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| trans-1,2-Dichloroethene     | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,2-Dichloropropane          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| cis-1,3-Dichloropropene      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| trans-1,3-Dichloropropene    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Ethyl benzene                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Freon 113                    | ND      |       | 0.50      | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 2-Hexanone                   | ND      |       | 10        | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Methylene chloride           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 4-Methyl-2-pentanone         | ND      |       | 10        | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Styrene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Tetrachloroethene            | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Toluene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,1,1-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| 1,1,2-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Trichloroethene              | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Trichlorofluoromethane       | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Vinyl acetate                | ND      |       | 10        | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Vinyl chloride               | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| Xylenes (total)              | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/13/1996 | 447       |
| SURROGATE RESULTS            | --      |       |           |        |        |           | 06/13/1996 | 447       |
| Toluene-d8 (SURR)            | 96      |       |           | % Rec. | 8240   |           | 06/13/1996 | 447       |
| Bromofluorobenzene (SURR)    | 91      |       |           | % Rec. | 8240   |           | 06/13/1996 | 447       |
| 1,2-Dichloroethane-d4 (SURR) | 92      |       |           | % Rec. | 8240   |           | 06/13/1996 | 447       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 4

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B2-2.5  
 Date Taken: 06/07/1996  
 Time Taken: 10:00  
 NET Sample No: 264980

| Parameter              | Results | Flags | Reporting |        |          | Date       | Date       | Run       |
|------------------------|---------|-------|-----------|--------|----------|------------|------------|-----------|
|                        |         |       | Limit     | Units  | Method   | Extracted  | Analyzed   | Batch No. |
| METHOD 6010 (SOLID)    | --      |       |           |        |          |            | 06/14/1996 | 769       |
| Antimony (ICP)         | ND      |       | 10        | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 838       |
| Arsenic (GFAA)         | 7.5     |       | 0.50      | mg/kg  | EPA 7060 | 06/12/1996 | 06/13/1996 | 587       |
| Cadmium (ICP)          | ND      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 692       |
| Chromium (ICP)         | 25      | MI    | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 703       |
| Cobalt (ICP)           | 31      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 840       |
| Lead (GFAA)            | 9.1     |       | 0.20      | mg/kg  | EPA 7421 | 06/12/1996 | 06/13/1996 | 769       |
| Mercury (CVAA)         | 0.13    |       | 0.020     | mg/kg  | EPA 7471 | 06/11/1996 | 06/12/1996 | 365       |
| Molybdenum (ICP)       | ND      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 639       |
| Nickel (ICP)           | 29      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 596       |
| Zinc (ICP)             | 78      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 641       |
| 8015M - HEAVY SCAN     |         |       |           |        |          | 06/14/1996 |            |           |
| DILUTION FACTOR*       | 5.0     |       |           |        |          |            | 06/19/1996 | 5         |
| as Bunker C            | ND      |       | 50        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Creosote            | ND      |       | 50        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Diesel              | ND      |       | 5         | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Hydraulic Oil       | ND      |       | 50        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Kerosene            | ND      |       | 5         | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Motor Oil           | ND      |       | 50        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Stoddard Solvent    | ND      |       | 5         | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Transmission Fluid  | 95      |       | 5         | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| SURROGATE RESULTS      |         |       |           |        |          |            |            |           |
| Ortho-terphenyl (SURR) | 70      |       |           | µ Rec. | M8015    |            | 06/19/1996 | 5         |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B2-2.5  
 Date Taken: 06/07/1996  
 Time Taken: 10:00  
 NET Sample No: 264980

| Parameter                    | Results | Flags | Reporting |        |        | Date<br>Extracted | Date<br>Analyzed | Run<br>Batch<br>No. |
|------------------------------|---------|-------|-----------|--------|--------|-------------------|------------------|---------------------|
|                              |         |       | Limit     | Units  | Method |                   |                  |                     |
| 8240(GCMS,Solid)             |         |       |           |        |        |                   |                  |                     |
| DILUTION FACTOR*             | 1       |       |           |        |        |                   | 06/13/1996       | 447                 |
| Benzene                      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Acetone                      | 24      |       | 10        | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Bromodichloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Bromoform                    | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Bromomethane                 | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 2-Butanone                   | ND      |       | 10        | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Carbon disulfide             | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Carbon tetrachloride         | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Chlorobenzene                | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Chloroethane                 | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 2-Chloroethyl vinyl ether    | ND      |       | 10        | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Chloroform                   | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Chloromethane                | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Dibromochloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,2-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,3-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,4-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,1-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,2-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,1-Dichloroethene           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| trans-1,2-Dichloroethene     | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,2-Dichloropropane          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| cis-1,3-Dichloropropene      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| trans-1,3-Dichloropropene    | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Ethyl benzene                | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Freon 113                    | ND      |       | 0.50      | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 2-Hexanone                   | ND      |       | 10        | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Methylene chloride           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 4-Methyl-2-pentanone         | ND      |       | 10        | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Styrene                      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Tetrachloroethene            | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Toluene                      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,1,1-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| 1,1,2-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Trichloroethene              | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Trichlorofluoromethane       | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Vinyl acetate                | ND      |       | 10        | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Vinyl chloride               | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| Xylenes (total)              | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/13/1996       | 447                 |
| SURROGATE RESULTS            | --      |       |           |        |        |                   | 06/13/1996       | 447                 |
| Toluene-d8 (SURR)            | 104     |       |           | % Rec. | 8240   |                   | 06/13/1996       | 447                 |
| Bromofluorobenzene (SURR)    | 96      |       |           | % Rec. | 8240   |                   | 06/13/1996       | 447                 |
| 1,2-Dichloroethane-d4 (SURR) | 94      |       |           | % Rec. | 8240   |                   | 06/13/1996       | 447                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 6

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B4-1.0  
 Date Taken: 06/07/1996  
 Time Taken: 10:30  
 NET Sample No: 264981

| Parameter              | Results | Flags | Reporting |        |          | Date<br>Extracted | Date<br>Analyzed | Run<br>Batch<br>No. |
|------------------------|---------|-------|-----------|--------|----------|-------------------|------------------|---------------------|
|                        |         |       | Limit     | Units  | Method   |                   |                  |                     |
| METHOD 6010 (SOLID)    | --      |       |           |        |          |                   | 06/14/1996       | 769                 |
| Antimony (ICP)         | ND      |       | 10        | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 838                 |
| Arsenic (GFAA)         | 4.4     |       | 0.50      | mg/kg  | EPA 7060 | 06/12/1996        | 06/13/1996       | 587                 |
| Cadmium (ICP)          | ND      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 692                 |
| Chromium (ICP)         | 40      | MI    | 2.0       | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 703                 |
| Cobalt (ICP)           | 18      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 840                 |
| Lead (GFAA)            | 67      |       | 0.20      | mg/kg  | EPA 7421 | 06/12/1996        | 06/13/1996       | 769                 |
| Mercury (CVAA)         | 0.08    |       | 0.020     | mg/kg  | EPA 7471 | 06/11/1996        | 06/12/1996       | 365                 |
| Molybdenum (ICP)       | ND      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 639                 |
| Nickel (ICP)           | 27      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 596                 |
| Zinc (ICP)             | 1,400   |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996        | 06/14/1996       | 641                 |
| 8015M - HEAVY SCAN     |         |       |           |        |          | 06/14/1996        |                  |                     |
| DILUTION FACTOR*       | 5.0     |       |           |        |          |                   | 06/19/1996       | 5                   |
| as Bunker C            | ND      |       | 50        | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Creosote            | ND      |       | 50        | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Diesel              | ND      |       | 5         | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Hydraulic Oil       | ND      |       | 50        | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Kerosene            | ND      |       | 5         | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Motor Oil           | ND      |       | 50        | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Stoddard Solvent    | ND      |       | 5         | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| as Transmission Fluid  | 84      |       | 5         | mg/kg  | M8015    |                   | 06/19/1996       | 5                   |
| SURROGATE RESULTS      | --      |       |           |        |          |                   | 06/19/1996       | 5                   |
| Ortho-terphenyl (SURR) | 69      |       |           | 1 Rec. | M8015    |                   | 06/19/1996       | 5                   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B4-1.0  
 Date Taken: 06/07/1996  
 Time Taken: 10:30  
 NET Sample No: 264981

| Parameter                    | Results | Flags | Reporting |        | Method | Date      | Date       | Run   |
|------------------------------|---------|-------|-----------|--------|--------|-----------|------------|-------|
|                              |         |       | Limit     | Units  |        | Extracted | Analyzed   | Batch |
| 8240(GCMS,Solid)             |         |       |           |        |        |           |            |       |
| DILUTION FACTOR*             | 1       |       |           |        |        |           | 06/14/1996 | 447   |
| Benzene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Acetone                      | 12      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Bromodichloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Bromoform                    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Bromomethane                 | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 2-Butanone                   | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Carbon disulfide             | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Carbon tetrachloride         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Chlorobenzene                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Chloroethane                 | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 2-Chloroethyl vinyl ether    | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Chloroform                   | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Chloromethane                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Dibromochloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,2-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,3-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,4-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,1-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,2-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,1-Dichloroethene           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| trans-1,2-Dichloroethene     | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,2-Dichloropropane          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| cis-1,3-Dichloropropene      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| trans-1,3-Dichloropropene    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Ethyl benzene                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Freon 113                    | ND      |       | 0.50      | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 2-Hexanone                   | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Methylene chloride           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 4-Methyl-2-pentanone         | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Styrene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Tetrachloroethene            | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Toluene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,1,1-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| 1,1,2-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Trichloroethene              | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Trichlorofluoromethane       | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Vinyl acetate                | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Vinyl chloride               | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| Xylenes (total)              | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447   |
| SURROGATE RESULTS            | --      |       |           |        |        |           | 06/14/1996 | 447   |
| Toluene-d8 (SURR)            | 94      |       |           | % Rec. | 8240   |           | 06/14/1996 | 447   |
| Bromofluorobenzene (SURR)    | 96      |       |           | % Rec. | 8240   |           | 06/14/1996 | 447   |
| 1,2-Dichloroethane-d4 (SURR) | 96      |       |           | % Rec. | 8240   |           | 06/14/1996 | 447   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 8

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B3-2

Date Taken: 06/07/1996

Time Taken: 11:10

NET Sample No: 264982

| Parameter              | Results | Flags | Reporting |        |          | Date       | Date       | Run       |
|------------------------|---------|-------|-----------|--------|----------|------------|------------|-----------|
|                        |         |       | Limit     | Units  | Method   | Extracted  | Analyzed   | Batch No. |
| METHOD 6010 (SOLID)    | --      |       |           |        |          |            | 06/14/1996 | 769       |
| Antimony (ICP)         | ND      |       | 10        | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 838       |
| Arsenic (GFAA)         | 6.2     |       | 0.50      | mg/kg  | EPA 7060 | 06/12/1996 | 06/13/1996 | 587       |
| Cadmium (ICP)          | ND      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 692       |
| Chromium (ICP)         | 39      | MI    | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 703       |
| Cobalt (ICP)           | 27      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 840       |
| Lead (GFAA)            | 31      |       | 0.20      | mg/kg  | EPA 7421 | 06/12/1996 | 06/13/1996 | 769       |
| Mercury (CVAA)         | 0.10    |       | 0.020     | mg/kg  | EPA 7471 | 06/11/1996 | 06/12/1996 | 365       |
| Molybdenum (ICP)       | ND      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 639       |
| Nickel (ICP)           | 42      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 596       |
| Zinc (ICP)             | 200     |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 641       |
| 8015M - HEAVY SCAN     |         |       |           |        |          | 06/14/1996 |            |           |
| DILUTION FACTOR*       | 1.0     |       |           |        |          |            | 06/19/1996 | 5         |
| as Bunker C            | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Creosote            | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Diesel              | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Hydraulic Oil       | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Kerosene            | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Motor Oil           | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Stoddard Solvent    | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| as Transmission Fluid  | 23      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5         |
| SURROGATE RESULTS      | --      |       |           |        |          |            | 06/19/1996 | 5         |
| Ortho-terphenyl (SURR) | 64      |       |           | † Rec. | M8015    |            | 06/19/1996 | 5         |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B3-2  
 Date Taken: 06/07/1996  
 Time Taken: 11:10  
 NET Sample No: 264982

| Parameter                    | Results | Flags | Reporting |        |        | Date      | Date       | Run       |
|------------------------------|---------|-------|-----------|--------|--------|-----------|------------|-----------|
|                              |         |       | Limit     | Units  | Method | Extracted | Analyzed   | Batch No. |
| 8240(GCMS,Solid)             |         |       |           |        |        |           |            |           |
| DILUTION FACTOR*             | 1       |       |           |        |        |           | 06/14/1996 | 447       |
| Benzene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Acetone                      | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Bromodichloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Bromoform                    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Bromomethane                 | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 2-Butanone                   | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Carbon disulfide             | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Carbon tetrachloride         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Chlorobenzene                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Chloroethane                 | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 2-Chloroethyl vinyl ether    | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Chloroform                   | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Chloromethane                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Dibromochloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,2-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,3-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,4-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,1-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,2-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,1-Dichloroethene           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| trans-1,2-Dichloroethene     | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,2-Dichloropropane          | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| cis-1,3-Dichloropropene      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| trans-1,3-Dichloropropene    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Ethyl benzene                | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Freon 113                    | ND      |       | 0.50      | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 2-Hexanone                   | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Methylene chloride           | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 4-Methyl-2-pentanone         | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Styrene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Tetrachloroethene            | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Toluene                      | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,1,1-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| 1,1,2-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Trichloroethene              | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Trichlorofluoromethane       | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Vinyl acetate                | ND      |       | 10        | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Vinyl chloride               | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| Xylenes (total)              | ND      |       | 5.0       | ug/kg  | 8240   |           | 06/14/1996 | 447       |
| SURROGATE RESULTS            | --      |       |           |        |        |           | 06/14/1996 | 447       |
| Toluene-d8 (SURR)            | 100     |       |           | % Rec. | 8240   |           | 06/14/1996 | 447       |
| Bromofluorobenzene (SURR)    | 96      |       |           | % Rec. | 8240   |           | 06/14/1996 | 447       |
| 1,2-Dichloroethane-d4 (SURR) | 95      |       |           | % Rec. | 8240   |           | 06/14/1996 | 447       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B1-3

Date Taken: 06/07/1996

Time Taken: 11:50

NET Sample No: 264983

| Parameter              | Results | Flags | Reporting |        |          | Date       | Date       | Run   |
|------------------------|---------|-------|-----------|--------|----------|------------|------------|-------|
|                        |         |       | Limit     | Units  | Method   | Extracted  | Analyzed   | Batch |
| METHOD 6010 (SOLID)    | --      |       |           |        |          |            | 06/14/1996 | 769   |
| Antimony (ICP)         | ND      |       | 10        | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 838   |
| Arsenic (GFAA)         | 2.3     |       | 0.50      | mg/kg  | EPA 7060 | 06/12/1996 | 06/13/1996 | 587   |
| Cadmium (ICP)          | ND      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 692   |
| Chromium (ICP)         | 36      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 703   |
| Cobalt (ICP)           | 15      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 840   |
| Lead (GFAA)            | 14      |       | 0.20      | mg/kg  | EPA 7421 | 06/12/1996 | 06/13/1996 | 769   |
| Mercury (CVAA)         | 0.10    |       | 0.020     | mg/kg  | EPA 7471 | 06/11/1996 | 06/12/1996 | 365   |
| Molybdenum (ICP)       | ND      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 639   |
| Nickel (ICP)           | 36      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 596   |
| Zinc (ICP)             | 44      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 641   |
| 8015M - HEAVY SCAN     |         |       |           |        |          | 06/14/1996 |            |       |
| DILUTION FACTOR*       | 1.0     |       |           |        |          |            | 06/17/1996 | 5     |
| as Bunker C            | ND      |       | 10        | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Creosote            | ND      |       | 10        | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Diesel              | 3.3     |       | 1.0       | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Hydraulic Oil       | ND      |       | 10        | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Kerosene            | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Motor Oil           | ND      |       | 10        | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Stoddard Solvent    | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| as Transmission Fluid  | 3.3     |       | 1.0       | mg/kg  | M8015    |            | 06/17/1996 | 5     |
| SURROGATE RESULTS      | --      |       |           |        |          |            | 06/17/1996 | 5     |
| Ortho-terphenyl (SURR) | 50      |       |           | ‡ Rec. | M8015    |            | 06/17/1996 | 5     |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B1-3  
 Date Taken: 06/07/1996  
 Time Taken: 11:50  
 NET Sample No: 264983

| Parameter                    | Results | Flags | Reporting |        |        | Date<br>Extracted | Date<br>Analyzed | Run<br>Batch<br>No. |
|------------------------------|---------|-------|-----------|--------|--------|-------------------|------------------|---------------------|
|                              |         |       | Limit     | Units  | Method |                   |                  |                     |
| 8240(GCMS,Solid)             |         |       |           |        |        |                   |                  |                     |
| DILUTION FACTOR*             | 1       |       |           |        |        |                   | 06/14/1996       | 447                 |
| Benzene                      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Acetone                      | ND      |       | 10        | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Bromodichloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Bromoform                    | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Bromomethane                 | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 2-Butanone                   | ND      |       | 10        | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Carbon disulfide             | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Carbon tetrachloride         | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Chlorobenzene                | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Chloroethane                 | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 2-Chloroethyl vinyl ether    | ND      |       | 10        | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Chloroform                   | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Chloromethane                | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Dibromochloromethane         | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,2-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,3-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,4-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,1-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,2-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,1-Dichloroethene           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| trans-1,2-Dichloroethene     | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,2-Dichloropropane          | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| cis-1,3-Dichloropropene      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| trans-1,3-Dichloropropene    | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Ethyl benzene                | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Freon 113                    | ND      |       | 0.50      | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 2-Hexanone                   | ND      |       | 10        | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Methylene chloride           | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 4-Methyl-2-pentanone         | ND      |       | 10        | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Styrene                      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Tetrachloroethene            | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Toluene                      | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,1,1-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| 1,1,2-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Trichloroethene              | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Trichlorofluoromethane       | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Vinyl acetate                | ND      |       | 10        | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Vinyl chloride               | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| Xylenes (total)              | ND      |       | 5.0       | ug/kg  | 8240   |                   | 06/14/1996       | 447                 |
| SURROGATE RESULTS            |         |       |           |        |        |                   |                  |                     |
| Toluene-d8 (SURR)            | 111     |       |           | % Rec. | 8240   |                   | 06/14/1996       | 447                 |
| Bromofluorobenzene (SURR)    | 80      |       |           | % Rec. | 8240   |                   | 06/14/1996       | 447                 |
| 1,2-Dichloroethane-d4 (SURR) | 93      |       |           | % Rec. | 8240   |                   | 06/14/1996       | 447                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B5-1/2  
 Date Taken: 06/07/1996  
 Time Taken: 13:45  
 NET Sample No: 264984

| Parameter              | Results | Flags | Reporting |        | Method   | Date       | Date       | Run<br>Batch<br>No. |
|------------------------|---------|-------|-----------|--------|----------|------------|------------|---------------------|
|                        |         |       | Limit     | Units  |          | Extracted  | Analyzed   |                     |
| METHOD 6010 (SOLID)    | --      |       |           |        |          |            | 06/14/1996 | 769                 |
| Antimony (ICP)         | ND      |       | 10        | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 838                 |
| Arsenic (GFAA)         | 3.7     |       | 0.50      | mg/kg  | EPA 7060 | 06/12/1996 | 06/13/1996 | 587                 |
| Cadmium (ICP)          | ND      |       | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 692                 |
| Chromium (ICP)         | 460     | MI    | 2.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 703                 |
| Cobalt (ICP)           | 23      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 840                 |
| Lead (GFAA)            | 490     |       | 0.20      | mg/kg  | EPA 7421 | 06/12/1996 | 06/13/1996 | 769                 |
| Mercury (CVAA)         | 0.04    |       | 0.020     | mg/kg  | EPA 7471 | 06/11/1996 | 06/12/1996 | 365                 |
| Molybdenum (ICP)       | ND      |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 639                 |
| Nickel (ICP)           | 46      | MI    | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 596                 |
| Zinc (ICP)             | 3,700   |       | 5.0       | mg/kg  | EPA 6010 | 06/12/1996 | 06/14/1996 | 641                 |
| 8015M - HEAVY SCAN     |         |       |           |        |          | 06/14/1996 |            |                     |
| DILUTION FACTOR*       | 10      |       |           |        |          |            | 06/19/1996 | 5                   |
| as Bunker C            | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Creosote            | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Diesel              | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Hydraulic Oil       | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Kerosene            | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Motor Oil           | ND      |       | 10        | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Stoddard Solvent    | ND      |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| as Transmission Fluid  | 610     |       | 1.0       | mg/kg  | M8015    |            | 06/19/1996 | 5                   |
| SURROGATE RESULTS      | --      |       |           |        |          |            | 06/19/1996 | 5                   |
| Ortho-terphenyl (SURR) | 62      |       |           | 1 Rec. | M8015    |            | 06/19/1996 | 5                   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B5-1/2  
 Date Taken: 06/07/1996  
 Time Taken: 13:45  
 NET Sample No: 264984

| Parameter                    | Results | Flags | Reporting |        |           | Method | Date       | Date | Run<br>Batch<br>No. |
|------------------------------|---------|-------|-----------|--------|-----------|--------|------------|------|---------------------|
|                              |         |       | Limit     | Units  | Extracted |        | Analyzed   |      |                     |
| 8240 (GCMS, Solid)           |         |       |           |        |           |        |            |      |                     |
| DILUTION FACTOR*             | 1       |       |           |        |           |        | 06/14/1996 |      | 447                 |
| Benzene                      | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Acetone                      | ND      |       | 10        | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Bromodichloromethane         | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Bromoform                    | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Bromomethane                 | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 2-Butanone                   | ND      |       | 10        | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Carbon disulfide             | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Carbon tetrachloride         | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Chlorobenzene                | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Chloroethane                 | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 2-Chloroethyl vinyl ether    | ND      |       | 10        | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Chloroform                   | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Chloromethane                | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Dibromochloromethane         | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,2-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,3-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,4-Dichlorobenzene          | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,1-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,2-Dichloroethane           | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,1-Dichloroethene           | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| trans-1,2-Dichloroethene     | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,2-Dichloropropane          | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| cis-1,3-Dichloropropene      | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| trans-1,3-Dichloropropene    | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Ethyl benzene                | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Freon 113                    | ND      |       | 0.50      | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 2-Hexanone                   | ND      |       | 10        | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Methylene chloride           | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 4-Methyl-2-pentanone         | ND      |       | 10        | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Styrene                      | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Tetrachloroethene            | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Toluene                      | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,1,1-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| 1,1,2-Trichloroethane        | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Trichloroethene              | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Trichlorofluoromethane       | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Vinyl acetate                | ND      |       | 10        | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Vinyl chloride               | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| Xylenes (total)              | ND      |       | 5.0       | ug/kg  | 8240      |        | 06/14/1996 |      | 447                 |
| SURROGATE RESULTS            | --      |       |           |        |           |        | 06/14/1996 |      | 447                 |
| Toluene-d8 (SURR)            | 102     |       |           | % Rec. | 8240      |        | 06/14/1996 |      | 447                 |
| Bromofluorobenzene (SURR)    | 94      |       |           | % Rec. | 8240      |        | 06/14/1996 |      | 447                 |
| 1,2-Dichloroethane-d4 (SURR) | 115     |       |           | % Rec. | 8240      |        | 06/14/1996 |      | 447                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B6W

Date Taken: 06/07/1996

Time Taken: 09:40

NET Sample No: 264985

| Parameter                   | Results | Flags | Reporting |        |           | Method     | Date       | Date  | Run |
|-----------------------------|---------|-------|-----------|--------|-----------|------------|------------|-------|-----|
|                             |         |       | Limit     | Units  | Extracted |            | Analyzed   | Batch |     |
| METHOD 6010 (DISSOLVED)     | --      |       |           |        |           |            | 06/14/1996 | 143   |     |
| Antimony (ICP, Dissolved)   | ND      |       | 0.10      | mg/L   | EPA 6010  |            | 06/14/1996 | 139   |     |
| Arsenic (GFAA, Dissolved)   | ND      |       | 0.0050    | mg/L   | EPA 7060  |            | 06/17/1996 | 550   |     |
| Cadmium (ICP, Dissolved)    | ND      |       | 0.020     | mg/L   | EPA 6010  |            | 06/14/1996 | 141   |     |
| Chromium (ICP, Dissolved)   | ND      |       | 0.020     | mg/L   | EPA 6010  |            | 06/14/1996 | 593   |     |
| Cobalt (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010  |            | 06/14/1996 | 139   |     |
| Lead (GFAA, Dissolved)      | ND      |       | 0.0020    | mg/L   | EPA 7421  |            | 06/17/1996 | 609   |     |
| Mercury (CVAA, Dissolved)   | ND      | NII   | 0.00020   | mg/L   | EPA 7470  | 06/12/1996 | 06/13/1996 | 384   |     |
| Molybdenum (ICP, Dissolved) | ND      |       | 0.050     | mg/L   | EPA 6010  |            | 06/14/1996 | 139   |     |
| Nickel (ICP, Dissolved)     | 0.16    |       | 0.050     | mg/L   | EPA 6010  |            | 06/14/1996 | 593   |     |
| Zinc (ICP, Dissolved)       | ND      |       | 0.050     | mg/L   | EPA 6010  |            | 06/14/1996 | 764   |     |
| 8015M - HEAVY SCAN          |         |       |           |        |           |            | 06/14/1996 |       |     |
| DILUTION FACTOR*            | 1.0     |       |           |        |           |            | 06/19/1996 | 3     |     |
| as Bunker C                 | ND      |       | 0.50      | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Creosote                 | ND      |       | 0.50      | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Diesel                   | ND      |       | 0.050     | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Hydraulic Oil            | ND      |       | 0.50      | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Kerosene                 | ND      |       | 0.050     | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Motor Oil                | ND      |       | 0.50      | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Stoddard Solvent         | ND      |       | 0.05      | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| as Transmission Fluid       | 0.81    |       | 0.050     | mg/L   | M8015     |            | 06/19/1996 | 3     |     |
| SURROGATE RESULTS           | --      |       |           |        |           |            | 06/19/1996 | 3     |     |
| Ortho-terphenyl (SURR)      | 81      |       |           | ‡ Rec. | M8015     |            | 06/19/1996 | 3     |     |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B6W

Date Taken: 06/07/1996

Time Taken: 09:40

NET Sample No: 264985

| Parameter                   | Results | Flags | Reporting |       |        | Date      | Date       | Run       |
|-----------------------------|---------|-------|-----------|-------|--------|-----------|------------|-----------|
|                             |         |       | Limit     | Units | Method | Extracted | Analyzed   | Batch No. |
| 8260 (GCMS, Liquid, PACOE)  |         |       |           |       |        |           |            |           |
| DILUTION FACTOR*            | 1.00    |       |           |       |        |           | 06/17/1996 | 234       |
| Acetone                     | ND      |       | 8.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Benzene                     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromobenzene                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromochloromethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromodichloromethane        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromoform                   | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromomethane                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 2-Butanone                  | ND      |       | 30        | ug/L  | 8260   |           | 06/17/1996 | 234       |
| n-Butylbenzene              | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| sec-Butylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| tert-Butylbenzene           | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Carbon tetrachloride        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chlorobenzene               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chloroethane                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chloroform                  | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chloromethane               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 2-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 4-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dibromo-3-chloropropane | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dibromoethane           | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Dibromochloromethane        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Dibromomethane              | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,3-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,4-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Dichlorodifluoromethane     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,1-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,1-Dichloroethene          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| cis-1,2-Dichloroethene      | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| trans-1,2-Dichloroethene    | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,3-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 2,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| cis-1,3-Dichloropropene     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,1-Dichloropropene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| trans-1,3-Dichloropropene   | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Ethyl benzene               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Hexachlorobutadiene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Isopropylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| p-Isopropyltoluene          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Methylene chloride          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Naphthalene                 | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| n-Propylbenzene             | ND      |       | 4.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Styrene                     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
Client Acct: 49500  
NET Job No: 96.01833

Date: 06/25/1996  
ELAP Cert: 1386  
Page: 16

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B6W

Date Taken: 06/07/1996

Time Taken: 09:40

NET Sample No: 264985

| Parameter                    | Results | Flags | Reporting |        |        | Date      | Date       | Run       |
|------------------------------|---------|-------|-----------|--------|--------|-----------|------------|-----------|
|                              |         |       | Limit     | Units  | Method | Extracted | Analyzed   | Batch No. |
| 1,1,1,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| Tetrachloroethene            | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,2,3-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,2,4-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,1,1-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,1,2-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| Trichloroethene              | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| Trichlorofluoromethane       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,2,3-Trichloropropane       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,2,4-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| 1,3,5-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| Toluene                      | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| Vinyl chloride               | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| o-Xylene                     | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| m&p-Xylene                   | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234       |
| SURROGATE RESULTS            | --      |       |           |        |        |           | 06/17/1996 | 234       |
| 4-Bromofluorobenzene (SURR)  | 104     |       |           | † Rec. | 8260   |           | 06/17/1996 | 234       |
| Toluene-d8 (SURR)            | 98      |       |           | † Rec. | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichloroethane-d4 (SURR) | 90      |       |           | † Rec. | 8260   |           | 06/17/1996 | 234       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B2W

Date Taken: 06/07/1996

Time Taken: 10:10

NET Sample No: 264986

| Parameter                   | Results | Flags | Reporting |        |          | Date<br>Extracted | Date<br>Analyzed | Run<br>Batch<br>No. |   |
|-----------------------------|---------|-------|-----------|--------|----------|-------------------|------------------|---------------------|---|
|                             |         |       | Limit     | Units  | Method   |                   |                  |                     |   |
| METHOD 6010 (DISSOLVED)     | --      |       |           |        |          |                   | 06/14/1996       | 143                 |   |
| Antimony (ICP, Dissolved)   | ND      |       | 0.10      | mg/L   | EPA 6010 |                   | 06/14/1996       | 139                 |   |
| Arsenic (GFAA, Dissolved)   | ND      |       | 0.0050    | mg/L   | EPA 7060 |                   | 06/17/1996       | 550                 |   |
| Cadmium (ICP, Dissolved)    | ND      |       | 0.020     | mg/L   | EPA 6010 |                   | 06/14/1996       | 141                 |   |
| Chromium (ICP, Dissolved)   | ND      |       | 0.020     | mg/L   | EPA 6010 |                   | 06/14/1996       | 593                 |   |
| Cobalt (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010 |                   | 06/14/1996       | 139                 |   |
| Lead (GFAA, Dissolved)      | 0.006   |       | 0.0020    | mg/L   | EPA 7421 |                   | 06/17/1996       | 609                 |   |
| Mercury (CVAA, Dissolved)   | ND      |       | 0.00020   | mg/L   | EPA 7470 | 06/12/1996        | 06/13/1996       | 384                 |   |
| Molybdenum (ICP, Dissolved) | ND      |       | 0.050     | mg/L   | EPA 6010 |                   | 06/14/1996       | 139                 |   |
| Nickel (ICP, Dissolved)     | 0.30    |       | 0.050     | mg/L   | EPA 6010 |                   | 06/14/1996       | 593                 |   |
| Zinc (ICP, Dissolved)       | 3.1     |       | 0.050     | mg/L   | EPA 6010 |                   | 06/14/1996       | 764                 |   |
| 8015M - HEAVY SCAN          |         |       |           |        |          | 06/14/1996        |                  |                     |   |
| DILUTION FACTOR*            | 1.0     |       |           |        |          |                   | 06/19/1996       | 3                   |   |
| as Bunker C                 | ND      |       | 0.50      | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Creosote                 | ND      |       | 0.50      | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Diesel                   | ND      |       | 0.050     | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Hydraulic Oil            | ND      |       | 0.50      | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Kerosene                 | ND      |       | 0.050     | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Motor Oil                | ND      |       | 0.50      | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Stoddard Solvent         | ND      |       | 0.05      | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| as Transmission Fluid       | 0.56    |       | 0.050     | mg/L   | M8015    |                   | 06/19/1996       | 3                   |   |
| SURROGATE RESULTS           |         |       |           |        |          |                   |                  | 06/19/1996          | 3 |
| Ortho-terphenyl (SURR)      | 66      |       |           | ‡ Rec. | M8015    |                   | 06/19/1996       | 3                   |   |

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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B2W  
 Date Taken: 06/07/1996  
 Time Taken: 10:10  
 NET Sample No: 264986

| Parameter                   | Results | Flags | Reporting |       |        | Date<br>Extracted | Date<br>Analyzed | Run<br>Batch<br>No. |
|-----------------------------|---------|-------|-----------|-------|--------|-------------------|------------------|---------------------|
|                             |         |       | Limit     | Units | Method |                   |                  |                     |
| 8260 (GCMS, Liquid, PACOE)  |         |       |           |       |        |                   |                  |                     |
| DILUTION FACTOR*            | 1.00    |       |           |       |        |                   | 06/17/1996       | 234                 |
| Acetone                     | ND      |       | 8.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Benzene                     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromobenzene                | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromochloromethane          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromodichloromethane        | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromoform                   | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromomethane                | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 2-Butanone                  | ND      |       | 30        | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| n-Butylbenzene              | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| sec-Butylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| tert-Butylbenzene           | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Carbon tetrachloride        | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chlorobenzene               | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chloroethane                | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chloroform                  | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chloromethane               | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 2-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 4-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dibromo-3-chloropropane | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dibromoethane           | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Dibromochloromethane        | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Dibromomethane              | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,3-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,4-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Dichlorodifluoromethane     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,1-Dichloroethane          | 25      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,1-Dichloroethene          | 240     | FC    | 10        | ug/L  | 8260   |                   | 06/18/1996       | 234                 |
| cis-1,2-Dichloroethene      | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| trans-1,2-Dichloroethene    | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,3-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 2,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| cis-1,3-Dichloropropene     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,1-Dichloropropene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| trans-1,3-Dichloropropene   | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Ethyl benzene               | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Hexachlorobutadiene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Isopropylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| p-Isopropyltoluene          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Methylene chloride          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Naphthalene                 | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| n-Propylbenzene             | ND      |       | 4.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Styrene                     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
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NET Job No: 96.01833

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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B2W

Date Taken: 06/07/1996

Time Taken: 10:10

NET Sample No: 264986

| Parameter                    | Results | Flags | Reporting |        |        | Date      | Date       | Run   |
|------------------------------|---------|-------|-----------|--------|--------|-----------|------------|-------|
|                              |         |       | Limit     | Units  | Method | Extracted | Analyzed   | Batch |
| 1,1,1,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Tetrachloroethene            | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,3-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,4-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,1,1-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,1,2-Trichloroethane        | 1.1     |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Trichloroethene              | 9.5     |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Trichlorofluoromethane       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,3-Trichloropropane       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,4-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,3,5-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Toluene                      | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Vinyl chloride               | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| o-Xylene                     | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| m&p-Xylene                   | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| SURROGATE RESULTS            | --      |       |           |        |        |           | 06/17/1996 | 234   |
| 4-Bromofluorobenzene (SURR)  | 99      |       |           | † Rec. | 8260   |           | 06/17/1996 | 234   |
| Toluene-d8 (SURR)            | 97      |       |           | † Rec. | 8260   |           | 06/17/1996 | 234   |
| 1,2-Dichloroethane-d4 (SURR) | 88      |       |           | † Rec. | 8260   |           | 06/17/1996 | 234   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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 NET Job No: 96.01833

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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B4W  
 Date Taken: 06/07/1996  
 Time Taken: 10:45  
 NET Sample No: 264987

| Parameter                   | Results | Flags | Reporting |        | Method   | Date       | Date       | Run       |
|-----------------------------|---------|-------|-----------|--------|----------|------------|------------|-----------|
|                             |         |       | Limit     | Units  |          | Extracted  | Analyzed   | Batch No. |
| METHOD 6010 (DISSOLVED)     | --      |       |           |        |          |            | 06/14/1996 | 143       |
| Antimony (ICP, Dissolved)   | ND      |       | 0.10      | mg/L   | EPA 6010 |            | 06/14/1996 | 139       |
| Arsenic (GFAA, Dissolved)   | ND      |       | 0.0050    | mg/L   | EPA 7060 |            | 06/17/1996 | 550       |
| Cadmium (ICP, Dissolved)    | ND      |       | 0.020     | mg/L   | EPA 6010 |            | 06/14/1996 | 141       |
| Chromium (ICP, Dissolved)   | ND      |       | 0.020     | mg/L   | EPA 6010 |            | 06/14/1996 | 593       |
| Cobalt (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 139       |
| Lead (GFAA, Dissolved)      | ND      |       | 0.0020    | mg/L   | EPA 7421 |            | 06/17/1996 | 609       |
| Mercury (CVAA, Dissolved)   | ND      |       | 0.00020   | mg/L   | EPA 7470 | 06/12/1996 | 06/13/1996 | 384       |
| Molybdenum (ICP, Dissolved) | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 139       |
| Nickel (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 593       |
| Zinc (ICP, Dissolved)       | 1.7     |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 764       |
| 8015M - HEAVY SCAN          |         |       |           |        |          | 06/14/1996 |            |           |
| DILUTION FACTOR*            | 1.0     |       |           |        |          |            | 06/17/1996 | 3         |
| as Bunker C                 | ND      |       | 0.50      | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Creosote                 | ND      |       | 0.50      | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Diesel                   | 0.25    |       | 0.050     | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Hydraulic Oil            | ND      |       | 0.50      | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Kerosene                 | ND      |       | 0.050     | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Motor Oil                | ND      |       | 0.50      | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Stoddard Solvent         | ND      |       | 0.05      | mg/L   | M8015    |            | 06/17/1996 | 3         |
| as Transmission Fluid       | 0.24    |       | 0.050     | mg/L   | M8015    |            | 06/17/1996 | 3         |
| SURROGATE RESULTS           | --      |       |           |        |          |            | 06/17/1996 | 3         |
| Ortho-terphenyl (SURR)      | 115     |       |           | µ Rec. | M8015    |            | 06/17/1996 | 3         |

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 NET Job No: 96.01833

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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B4W  
 Date Taken: 06/07/1996  
 Time Taken: 10:45  
 NET Sample No: 264987

| Parameter                   | Results | Flags | Reporting |       | Method | Date      | Date       | Run       |
|-----------------------------|---------|-------|-----------|-------|--------|-----------|------------|-----------|
|                             |         |       | Limit     | Units |        | Extracted | Analyzed   | Batch No. |
| 8260 (GCMS, Liquid, PACOE)  |         |       |           |       |        |           |            |           |
| DILUTION FACTOR*            | 1.00    |       |           |       |        |           | 06/17/1996 | 234       |
| Acetone                     | ND      |       | 8.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Benzene                     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromobenzene                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromochloromethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromodichloromethane        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromoform                   | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Bromomethane                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 2-Butanone                  | ND      |       | 30        | ug/L  | 8260   |           | 06/17/1996 | 234       |
| n-Butylbenzene              | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| sec-Butylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| tert-Butylbenzene           | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Carbon tetrachloride        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chlorobenzene               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chloroethane                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chloroform                  | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Chloromethane               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 2-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 4-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dibromo-3-chloropropane | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dibromoethane           | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Dibromochloromethane        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Dibromomethane              | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,3-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,4-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Dichlorodifluoromethane     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,1-Dichloroethane          | 1.3     |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,1-Dichloroethene          | 5.0     |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| cis-1,2-Dichloroethene      | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| trans-1,2-Dichloroethene    | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,3-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 2,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| cis-1,3-Dichloropropene     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| 1,1-Dichloropropene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| trans-1,3-Dichloropropene   | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Ethyl benzene               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Hexachlorobutadiene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Isopropylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| p-Isopropyltoluene          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Methylene chloride          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Naphthalene                 | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| n-Propylbenzene             | ND      |       | 4.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |
| Styrene                     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B4W

Date Taken: 06/07/1996

Time Taken: 10:45

NET Sample No: 264987

| Parameter                    | Results | Flags | Reporting |        |           | Method | Date       | Date | Run<br>Batch<br>No. |
|------------------------------|---------|-------|-----------|--------|-----------|--------|------------|------|---------------------|
|                              |         |       | Limit     | Units  | Extracted |        | Analyzed   |      |                     |
| 1,1,1,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Tetrachloroethene            | 1.2     |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,3-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,4-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,1,1-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,1,2-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Trichloroethene              | 22      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Trichlorofluoromethane       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,3-Trichloropropane       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,4-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,3,5-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Toluene                      | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Vinyl chloride               | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| o-Xylene                     | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| m&p-Xylene                   | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| SURROGATE RESULTS            | --      |       |           |        |           |        | 06/17/1996 | 234  |                     |
| 4-Bromofluorobenzene (SURR)  | 102     |       |           | % Rec. | 8260      |        | 06/17/1996 | 234  |                     |
| Toluene-d8 (SURR)            | 98      |       |           | % Rec. | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2-Dichloroethane-d4 (SURR) | 86      |       |           | % Rec. | 8260      |        | 06/17/1996 | 234  |                     |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B3W  
 Date Taken: 06/07/1996  
 Time Taken: 11:25  
 NET Sample No: 264988

| Parameter                   | Results | Flags | Reporting |        | Method   | Date       | Date       | Run<br>Batch<br>No. |
|-----------------------------|---------|-------|-----------|--------|----------|------------|------------|---------------------|
|                             |         |       | Limit     | Units  |          | Extracted  | Analyzed   |                     |
| METHOD 6010 (DISSOLVED)     | --      |       |           |        |          |            | 06/14/1996 | 143                 |
| Antimony (ICP, Dissolved)   | ND      |       | 0.10      | mg/L   | EPA 6010 |            | 06/14/1996 | 139                 |
| Arsenic (GFAA, Dissolved)   | ND      |       | 0.0050    | mg/L   | EPA 7060 |            | 06/17/1996 | 550                 |
| Cadmium (ICP, Dissolved)    | ND      |       | 0.020     | mg/L   | EPA 6010 |            | 06/14/1996 | 141                 |
| Chromium (ICP, Dissolved)   | ND      |       | 0.020     | mg/L   | EPA 6010 |            | 06/14/1996 | 593                 |
| Cobalt (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 139                 |
| Lead (GFAA, Dissolved)      | 0.007   |       | 0.0020    | mg/L   | EPA 7421 |            | 06/17/1996 | 609                 |
| Mercury (CVAA, Dissolved)   | ND      |       | 0.00020   | mg/L   | EPA 7470 | 06/12/1996 | 06/13/1996 | 384                 |
| Molybdenum (ICP, Dissolved) | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 139                 |
| Nickel (ICP, Dissolved)     | 0.44    |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 593                 |
| Zinc (ICP, Dissolved)       | 6.1     |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 764                 |
| 8015M - HEAVY SCAN          |         |       |           |        |          | 06/14/1996 |            |                     |
| DILUTION FACTOR*            | 1.0     |       |           |        |          |            | 06/19/1996 | 3                   |
| as Bunker C                 | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Creosote                 | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Diesel                   | ND      |       | 0.050     | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Hydraulic Oil            | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Kerosene                 | ND      |       | 0.050     | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Motor Oil                | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Stoddard Solvent         | ND      |       | 0.05      | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| as Transmission Fluid       | 10      |       | 0.050     | mg/L   | M8015    |            | 06/19/1996 | 3                   |
| SURROGATE RESULTS           | --      |       |           |        |          |            | 06/19/1996 | 3                   |
| Ortho-terphenyl (SURR)      | 79      |       |           | † Rec. | M8015    |            | 06/19/1996 | 3                   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

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 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B3W

Date Taken: 06/07/1996

Time Taken: 11:25

NET Sample No: 264988

| Parameter                   | Results | Flags | Reporting |       | Method | Date      | Date       | Run<br>Batch<br>No. |
|-----------------------------|---------|-------|-----------|-------|--------|-----------|------------|---------------------|
|                             |         |       | Limit     | Units |        | Extracted | Analyzed   |                     |
| 8260 (GCMS, Liquid, PACOE)  |         |       |           |       |        |           |            |                     |
| DILUTION FACTOR*            | 1.00    |       |           |       |        |           | 06/17/1996 | 234                 |
| Acetone                     | ND      |       | 8.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Benzene                     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Bromobenzene                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Bromochloromethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Bromodichloromethane        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Bromoform                   | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Bromomethane                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 2-Butanone                  | ND      |       | 30        | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| n-Butylbenzene              | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| sec-Butylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| tert-Butylbenzene           | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Carbon tetrachloride        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Chlorobenzene               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Chloroethane                | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Chloroform                  | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Chloromethane               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 2-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 4-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,2-Dibromo-3-chloropropane | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,2-Dibromoethane           | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Dibromochloromethane        | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Dibromomethane              | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,2-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,3-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,4-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Dichlorodifluoromethane     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,1-Dichloroethane          | 29      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,2-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,1-Dichloroethene          | 130     | FB    | 5.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| cis-1,2-Dichloroethene      | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| trans-1,2-Dichloroethene    | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,3-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 2,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| cis-1,3-Dichloropropene     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| 1,1-Dichloropropene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| trans-1,3-Dichloropropene   | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Ethyl benzene               | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Hexachlorobutadiene         | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Isopropylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| p-Isopropyltoluene          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Methylene chloride          | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Naphthalene                 | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| n-Propylbenzene             | ND      |       | 4.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |
| Styrene                     | ND      |       | 1.0       | ug/L  | 8260   |           | 06/17/1996 | 234                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B3W

Date Taken: 06/07/1996  
 Time Taken: 11:25  
 NET Sample No: 264988

| Parameter                     | Results | Flags | Reporting |        |        | Date      | Date       | Run   |
|-------------------------------|---------|-------|-----------|--------|--------|-----------|------------|-------|
|                               |         |       | Limit     | Units  | Method | Extracted | Analyzed   | Batch |
| 1,1,1,2-Tetrachloroethane     | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,1,2,2-Tetrachloroethane     | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Tetrachloroethene             | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,3-Trichlorobenzene        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,4-Trichlorobenzene        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,1,1-Trichloroethane         | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,1,2-Trichloroethane         | 1.4     |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Trichloroethene               | 4.8     |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Trichlorofluoromethane        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,3-Trichloropropane        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,2,4-Trimethylbenzene        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| 1,3,5-Trimethylbenzene        | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Toluene                       | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| Vinyl chloride                | 1.4     |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| o-Xylene                      | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| m&p-Xylene                    | ND      |       | 1.0       | ug/L   | 8260   |           | 06/17/1996 | 234   |
| SURROGATE RESULTS             | --      |       |           |        |        |           | 06/17/1996 | 234   |
| 4-Bromofluorobenzene (SURRE)  | 100     |       |           | ‡ Rec. | 8260   |           | 06/17/1996 | 234   |
| Toluene-d8 (SURRE)            | 98      |       |           | ‡ Rec. | 8260   |           | 06/17/1996 | 234   |
| 1,2-Dichloroethane-d4 (SURRE) | 89      |       |           | ‡ Rec. | 8260   |           | 06/17/1996 | 234   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B1W

Date Taken: 06/07/1996

Time Taken: 12:15

NET Sample No: 264989

| Parameter                   | Results | Flags | Reporting |        | Method   | Date       | Date       | Run   |
|-----------------------------|---------|-------|-----------|--------|----------|------------|------------|-------|
|                             |         |       | Limit     | Units  |          | Extracted  | Analyzed   | Batch |
| METHOD 6010 (DISSOLVED)     | --      |       |           |        |          |            | 06/14/1996 | 143   |
| Antimony (ICP, Dissolved)   | ND      |       | 0.10      | mg/L   | EPA 6010 |            | 06/14/1996 | 139   |
| Arsenic (GFAA, Dissolved)   | ND      |       | 0.0050    | mg/L   | EPA 7060 |            | 06/17/1996 | 550   |
| Cadmium (ICP, Dissolved)    | ND      |       | 0.020     | mg/L   | EPA 6010 |            | 06/14/1996 | 141   |
| Chromium (ICP, Dissolved)   | ND      |       | 0.020     | mg/L   | EPA 6010 |            | 06/14/1996 | 593   |
| Cobalt (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 139   |
| Lead (GFAA, Dissolved)      | 0.012   |       | 0.0020    | mg/L   | EPA 7421 |            | 06/17/1996 | 609   |
| Mercury (CVAA, Dissolved)   | ND      |       | 0.00020   | mg/L   | EPA 7470 | 06/12/1996 | 06/13/1996 | 384   |
| Molybdenum (ICP, Dissolved) | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 139   |
| Nickel (ICP, Dissolved)     | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 593   |
| Zinc (ICP, Dissolved)       | ND      |       | 0.050     | mg/L   | EPA 6010 |            | 06/14/1996 | 764   |
| 8015M - HEAVY SCAN          |         |       |           |        |          | 06/14/1996 |            |       |
| DILUTION FACTOR*            | 1.0     |       |           |        |          |            | 06/19/1996 | 3     |
| as Bunker C                 | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Creosote                 | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Diesel                   | ND      |       | 0.050     | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Hydraulic Oil            | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Kerosene                 | ND      |       | 0.050     | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Motor Oil                | ND      |       | 0.50      | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Stoddard Solvent         | ND      |       | 0.05      | mg/L   | M8015    |            | 06/19/1996 | 3     |
| as Transmission Fluid       | 0.38    |       | 0.050     | mg/L   | M8015    |            | 06/19/1996 | 3     |
| SURROGATE RESULTS           | --      |       |           |        |          |            | 06/19/1996 | 3     |
| Ortho-terphenyl (SURR)      | 69      |       |           | ‡ Rec. | M8015    |            | 06/19/1996 | 3     |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B1W

Date Taken: 06/07/1996

Time Taken: 12:15

NET Sample No: 264989

| Parameter                   | Results | Flags | Reporting |       |        | Date<br>Extracted | Date<br>Analyzed | Run<br>Batch<br>No. |
|-----------------------------|---------|-------|-----------|-------|--------|-------------------|------------------|---------------------|
|                             |         |       | Limit     | Units | Method |                   |                  |                     |
| 8260(GCMS,Liquid,PACOB)     |         |       |           |       |        |                   |                  |                     |
| DILUTION FACTOR*            | 1.00    |       |           |       |        |                   | 06/17/1996       | 234                 |
| Acetone                     | ND      |       | 8.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Benzene                     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromobenzene                | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromochloromethane          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromodichloromethane        | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromoform                   | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Bromomethane                | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 2-Butanone                  | ND      |       | 30        | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| n-Butylbenzene              | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| sec-Butylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| tert-Butylbenzene           | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Carbon tetrachloride        | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chlorobenzene               | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chloroethane                | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chloroform                  | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Chloromethane               | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 2-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 4-Chlorotoluene             | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dibromo-3-chloropropane | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dibromoethane           | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Dibromochloromethane        | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Dibromomethane              | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,3-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,4-Dichlorobenzene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Dichlorodifluoromethane     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,1-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dichloroethane          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,1-Dichloroethene          | 3.8     |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| cis-1,2-Dichloroethene      | 1.1     |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| trans-1,2-Dichloroethene    | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,3-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 2,2-Dichloropropane         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| cis-1,3-Dichloropropene     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| 1,1-Dichloropropene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| trans-1,3-Dichloropropene   | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Ethyl benzene               | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Hexachlorobutadiene         | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Isopropylbenzene            | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| p-Isopropyltoluene          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Methylene chloride          | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Naphthalene                 | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| n-Propylbenzene             | ND      |       | 4.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |
| Styrene                     | ND      |       | 1.0       | ug/L  | 8260   |                   | 06/17/1996       | 234                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B1W

Date Taken: 06/07/1996

Time Taken: 12:15

NET Sample No: 264989

| Parameter                    | Results | Flags | Reporting |        |           | Method | Date       | Date | Run<br>Batch<br>No. |
|------------------------------|---------|-------|-----------|--------|-----------|--------|------------|------|---------------------|
|                              |         |       | Limit     | Units  | Extracted |        | Analyzed   |      |                     |
| 1,1,1,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,1,2,2-Tetrachloroethane    | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Tetrachloroethene            | 3.2     |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,3-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,4-Trichlorobenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,1,1-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,1,2-Trichloroethane        | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Trichloroethene              | 53      | FB    | 5.0       | ug/L   | 8260      |        | 06/18/1996 | 234  |                     |
| Trichlorofluoromethane       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,3-Trichloropropane       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2,4-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| 1,3,5-Trimethylbenzene       | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Toluene                      | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| Vinyl chloride               | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| o-Xylene                     | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| m&p-Xylene                   | ND      |       | 1.0       | ug/L   | 8260      |        | 06/17/1996 | 234  |                     |
| SURROGATE RESULTS            | --      |       |           |        |           |        | 06/17/1996 | 234  |                     |
| 4-Bromofluorobenzene (SURR)  | 100     |       |           | ‡ Rec. | 8260      |        | 06/17/1996 | 234  |                     |
| Toluene-d8 (SURR)            | 99      |       |           | ‡ Rec. | 8260      |        | 06/17/1996 | 234  |                     |
| 1,2-Dichloroethane-d4 (SURR) | 86      |       |           | ‡ Rec. | 8260      |        | 06/17/1996 | 234  |                     |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Ref: Runnels Industry/Job No. 96004

## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter                   | CCV<br>Standard<br>% Recovery | CCV                         | CCV                            | Flags | Units  | Date<br>Analyzed | Analyst<br>Initials | Run<br>Batch<br>Number |
|-----------------------------|-------------------------------|-----------------------------|--------------------------------|-------|--------|------------------|---------------------|------------------------|
|                             |                               | Standard<br>Amount<br>Found | Standard<br>Amount<br>Expected |       |        |                  |                     |                        |
| METHOD 6010 (DISSOLVED)     | 100.0                         | 1                           | 1                              |       |        | 06/14/1996       | jeo                 | 143                    |
| Antimony (ICP, Dissolved)   | 101.7                         | 10.17                       | 10.0                           |       | mg/L   | 06/14/1996       | jeo                 | 139                    |
| Arsenic (GFAA, Dissolved)   | 102.6                         | 0.05132                     | 0.0500                         |       | mg/L   | 06/17/1996       | ket                 | 550                    |
| Cadmium (ICP, Dissolved)    | 101.1                         | 1.011                       | 1.00                           |       | mg/L   | 06/14/1996       | jeo                 | 141                    |
| Chromium (ICP, Dissolved)   | 102.0                         | 1.020                       | 1.00                           |       | mg/L   | 06/14/1996       | jeo                 | 593                    |
| Cobalt (ICP, Dissolved)     | 100.2                         | 1.002                       | 1.00                           |       | mg/L   | 06/14/1996       | jeo                 | 139                    |
| Lead (GFAA, Dissolved)      | 94.5                          | 0.02363                     | 0.0250                         |       | mg/L   | 06/17/1996       | ket                 | 609                    |
| Mercury (CVAA, Dissolved)   | 104.6                         | 0.00523                     | 0.0050                         |       | mg/L   | 06/13/1996       | ket                 | 384                    |
| Molybdenum (ICP, Dissolved) | 97.8                          | 0.9775                      | 1.00                           |       | mg/L   | 06/14/1996       | jeo                 | 139                    |
| Nickel (ICP, Dissolved)     | 101.9                         | 1.019                       | 1.00                           |       | mg/L   | 06/14/1996       | jeo                 | 593                    |
| Zinc (ICP, Dissolved)       | 101.3                         | 1.013                       | 1.00                           |       | mg/L   | 06/14/1996       | jeo                 | 764                    |
| Antimony (ICP)              | 105.8                         | 0.5288                      | 0.500                          |       | mg/kg  | 06/14/1996       | jeo                 | 838                    |
| Arsenic (GFAA)              | 98.8                          | 4.938                       | 5.00                           |       | mg/kg  | 06/13/1996       | ket                 | 587                    |
| Cadmium (ICP)               | 107.1                         | 0.2678                      | 0.25                           |       | mg/kg  | 06/14/1996       | jeo                 | 692                    |
| Chromium (ICP)              | 96.1                          | 0.2402                      | 0.25                           |       | mg/kg  | 06/14/1996       | jeo                 | 703                    |
| Cobalt (ICP)                | 100.1                         | 0.2502                      | 0.25                           |       | mg/kg  | 06/14/1996       | jeo                 | 840                    |
| Lead (GFAA)                 | 106.8                         | 2.671                       | 2.5000                         |       | mg/kg  | 06/13/1996       | ket                 | 769                    |
| Mercury (CVAA)              | 101.0                         | 0.421                       | 0.4170                         |       | mg/kg  | 06/12/1996       | ket                 | 365                    |
| Molybdenum (ICP)            | 98.7                          | 0.2468                      | 0.25                           |       | mg/kg  | 06/14/1996       | jeo                 | 639                    |
| Nickel (ICP)                | 103.1                         | 0.2577                      | 0.25                           |       | mg/kg  | 06/14/1996       | jeo                 | 596                    |
| Zinc (ICP)                  | 96.8                          | 0.2421                      | 0.25                           |       | mg/kg  | 06/14/1996       | jeo                 | 641                    |
| 8015M - HEAVY SCAN          |                               |                             |                                |       |        |                  |                     |                        |
| as Diesel                   | 104.0                         | 1040                        | 1000                           |       | mg/L   | 06/17/1996       | dla                 | 3                      |
| Ortho-terphenyl (SURR)      | 117.0                         | 117                         | 100                            |       | % Rec. | 06/17/1996       | dla                 | 3                      |
| 8015M - HEAVY SCAN          |                               |                             |                                |       |        |                  |                     |                        |
| as Diesel                   | 94.2                          | 942                         | 1000                           |       | mg/L   | 06/19/1996       | dla                 | 3                      |
| Ortho-terphenyl (SURR)      | 82.0                          | 82                          | 100                            |       | % Rec. | 06/19/1996       | dla                 | 3                      |
| 8015M - HEAVY SCAN          |                               |                             |                                |       |        |                  |                     |                        |
| as Diesel                   | 104.1                         | 1041                        | 1000                           |       | mg/kg  | 06/17/1996       | dla                 | 5                      |
| Ortho-terphenyl (SURR)      | 117.0                         | 117                         | 100                            |       | % Rec. | 06/17/1996       | dla                 | 5                      |
| 8015M - HEAVY SCAN          |                               |                             |                                |       |        |                  |                     |                        |
| as Diesel                   | 94.2                          | 942                         | 1000                           |       | mg/kg  | 06/19/1996       | dla                 | 5                      |
| Ortho-terphenyl (SURR)      | 82.0                          | 82                          | 100                            |       | % Rec. | 06/19/1996       | dla                 | 5                      |

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter                    | CCV                 | CCV                   | CCV                      | Flags | Units  | Date Analyzed | Analyst Initials | Run Batch Number |
|------------------------------|---------------------|-----------------------|--------------------------|-------|--------|---------------|------------------|------------------|
|                              | Standard % Recovery | Standard Amount Found | Standard Amount Expected |       |        |               |                  |                  |
| 8260 (GCMS, Liquid, PACOE)   |                     |                       |                          |       |        |               |                  |                  |
| Chloroform                   | 105.0               | 10.5                  | 10.0                     |       | ug/L   | 06/17/1996    | jde              | 234              |
| 1,1-Dichloroethene           | 106.0               | 10.6                  | 10.0                     |       | ug/L   | 06/17/1996    | jde              | 234              |
| 1,2-Dichloropropane          | 100.0               | 10.0                  | 10.0                     |       | ug/L   | 06/17/1996    | jde              | 234              |
| Ethyl benzene                | 103.0               | 10.3                  | 10.0                     |       | ug/L   | 06/17/1996    | jde              | 234              |
| Toluene                      | 104.0               | 10.4                  | 10.0                     |       | ug/L   | 06/17/1996    | jde              | 234              |
| Vinyl chloride               | 108.0               | 10.8                  | 10.0                     |       | ug/L   | 06/17/1996    | jde              | 234              |
| 4-Bromofluorobenzene (SURR)  | 106.0               | 106                   | 100                      |       | % Rec. | 06/17/1996    | jde              | 234              |
| Toluene-d8 (SURR)            | 110.0               | 110                   | 100                      |       | % Rec. | 06/17/1996    | jde              | 234              |
| 1,2-Dichloroethane-d4 (SURR) | 97.0                | 97                    | 100                      |       | % Rec. | 06/17/1996    | jde              | 234              |

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter                    | CCV<br>Standard<br>% Recovery | CCV<br>Standard<br>Amount<br>Found | CCV<br>Standard<br>Amount<br>Expected | Flags | Units  | Date<br>Analyzed | Analyst<br>Initials | Run<br>Batch<br>Number |
|------------------------------|-------------------------------|------------------------------------|---------------------------------------|-------|--------|------------------|---------------------|------------------------|
| 8260 (GCMS, Liquid, PACOE)   |                               |                                    |                                       |       |        |                  |                     |                        |
| Chloroform                   | 92.6                          | 9.26                               | 10.0                                  |       | ug/L   | 06/18/1996       | jde                 | 234                    |
| 1,1-Dichloroethene           | 98.5                          | 9.85                               | 10.0                                  |       | ug/L   | 06/18/1996       | jde                 | 234                    |
| 1,2-Dichloropropane          | 88.6                          | 8.86                               | 10.0                                  |       | ug/L   | 06/18/1996       | jde                 | 234                    |
| Ethyl benzene                | 96.1                          | 9.61                               | 10.0                                  |       | ug/L   | 06/18/1996       | jde                 | 234                    |
| Toluene                      | 97.2                          | 9.72                               | 10.0                                  |       | ug/L   | 06/18/1996       | jde                 | 234                    |
| Vinyl chloride               | 106.0                         | 10.6                               | 10.0                                  |       | ug/L   | 06/18/1996       | jde                 | 234                    |
| 4-Bromofluorobenzene (SURR)  | 109.0                         | 109                                | 100                                   |       | % Rec. | 06/18/1996       | jde                 | 234                    |
| Toluene-d8 (SURR)            | 108.0                         | 108                                | 100                                   |       | % Rec. | 06/18/1996       | jde                 | 234                    |
| 1,2-Dichloroethane-d4 (SURR) | 95.0                          | 95                                 | 100                                   |       | % Rec. | 06/18/1996       | jde                 | 234                    |

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter                    | CCV                 | CCV                   | Flags | Units  | Date Analyzed | Analyst Initials | Run Batch Number |
|------------------------------|---------------------|-----------------------|-------|--------|---------------|------------------|------------------|
|                              | Standard % Recovery | Standard Amount Found |       |        |               |                  |                  |
| 8240 (GCMS, Solid)           |                     |                       |       |        |               |                  |                  |
| Chloroform                   | 99.4                | 49.7                  | 50.0  | ug/kg  | 06/13/1996    | klh              | 447              |
| 1,1-Dichloroethene           | 104.0               | 52.0                  | 50.0  | ug/kg  | 06/13/1996    | klh              | 447              |
| 1,2-Dichloropropane          | 96.4                | 48.2                  | 50.0  | ug/kg  | 06/13/1996    | klh              | 447              |
| Ethyl benzene                | 98.0                | 49.0                  | 50.0  | ug/kg  | 06/13/1996    | klh              | 447              |
| Toluene                      | 97.6                | 48.8                  | 50.0  | ug/kg  | 06/13/1996    | klh              | 447              |
| Vinyl chloride               | 98.2                | 49.1                  | 50.0  | ug/kg  | 06/13/1996    | klh              | 447              |
| Toluene-d8 (SURR)            | 97.0                | 97                    | 100   | % Rec. | 06/13/1996    | klh              | 447              |
| Bromofluorobenzene (SURR)    | 99.0                | 99                    | 100   | % Rec. | 06/13/1996    | klh              | 447              |
| 1,2-Dichloroethane-d4 (SURR) | 95.0                | 95                    | 100   | % Rec. | 06/13/1996    | klh              | 447              |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter                     | CCV                 | CCV                   | CCV                      | Flags | Units  | Date Analyzed | Analyst Initials | Run          |
|-------------------------------|---------------------|-----------------------|--------------------------|-------|--------|---------------|------------------|--------------|
|                               | Standard % Recovery | Standard Amount Found | Standard Amount Expected |       |        |               |                  | Batch Number |
| 8240 (GCMS, Solid)            |                     |                       |                          |       |        |               |                  |              |
| Chloroform                    | 95.4                | 47.7                  | 50.0                     |       | ug/kg  | 06/14/1996    | klh              | 447          |
| 1,1-Dichloroethene            | 93.0                | 46.5                  | 50.0                     |       | ug/kg  | 06/14/1996    | klh              | 447          |
| 1,2-Dichloropropane           | 88.2                | 44.1                  | 50.0                     |       | ug/kg  | 06/14/1996    | klh              | 447          |
| Ethyl benzene                 | 94.8                | 47.4                  | 50.0                     |       | ug/kg  | 06/14/1996    | klh              | 447          |
| Toluene                       | 90.6                | 45.3                  | 50.0                     |       | ug/kg  | 06/14/1996    | klh              | 447          |
| Vinyl chloride                | 80.0                | 40.0                  | 50.0                     |       | ug/kg  | 06/14/1996    | klh              | 447          |
| Toluene-d8 (SURRE)            | 98.0                | 98                    | 100                      |       | % Rec. | 06/14/1996    | klh              | 447          |
| Bromofluorobenzene (SURRE)    | 106.0               | 106                   | 100                      |       | % Rec. | 06/14/1996    | klh              | 447          |
| 1,2-Dichloroethane-d4 (SURRE) | 97.0                | 97                    | 100                      |       | % Rec. | 06/14/1996    | klh              | 447          |

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## METHOD BLANK REPORT

| Parameter                   | Method  |         | Reporting | Flags | Units  | Date       | Analyst | Run |
|-----------------------------|---------|---------|-----------|-------|--------|------------|---------|-----|
|                             | Blank   | Amount  |           |       |        |            |         |     |
| METHOD 6010 (DISSOLVED)     | --      |         |           |       |        | 06/14/1996 | jeo     | 143 |
| Antimony (ICP, Dissolved)   | ND      | 0.10    |           |       | mg/L   | 06/14/1996 | jeo     | 139 |
| Arsenic (GFAA, Dissolved)   | ND      | 0.0050  |           |       | mg/L   | 06/17/1996 | ket     | 550 |
| Cadmium (ICP, Dissolved)    | ND      | 0.020   |           |       | mg/L   | 06/14/1996 | jeo     | 141 |
| Chromium (ICP, Dissolved)   | ND      | 0.020   |           |       | mg/L   | 06/14/1996 | jeo     | 593 |
| Cobalt (ICP, Dissolved)     | ND      | 0.050   |           |       | mg/L   | 06/14/1996 | jeo     | 139 |
| Lead (GFAA, Dissolved)      | ND      | 0.0020  |           |       | mg/L   | 06/17/1996 | ket     | 609 |
| Mercury (CVAA, Dissolved)   | ND      | 0.00020 |           |       | mg/L   | 06/13/1996 | ket     | 384 |
| Molybdenum (ICP, Dissolved) | ND      | 0.050   |           |       | mg/L   | 06/14/1996 | jeo     | 139 |
| Nickel (ICP, Dissolved)     | ND      | 0.050   |           |       | mg/L   | 06/14/1996 | jeo     | 593 |
| Zinc (ICP, Dissolved)       | ND      | 0.050   |           |       | mg/L   | 06/14/1996 | jeo     | 764 |
| Arsenic (GFAA)              | ND      | 0.50    |           |       | mg/kg  | 06/13/1996 | ket     | 587 |
| Lead (GFAA)                 | ND      | 0.20    |           |       | mg/kg  | 06/13/1996 | ket     | 769 |
| Mercury (CVAA)              | ND      | 0.020   |           |       | mg/kg  | 06/12/1996 | ket     | 365 |
| 8015M - HEAVY SCAN          |         |         |           |       |        |            |         |     |
| as Bunker C                 | ND      | 0.50    |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Creosote                 | ND      | 0.50    |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Diesel                   | 0.12 ** | 0.050   |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Hydraulic Oil            | ND      | 0.50    |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Kerosene                 | ND      | 0.050   |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Motor Oil                | ND      | 0.50    |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Stoddard Solvent         | ND      | 0.05    |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| as Transmission Fluid       | ND      | 0.050   |           |       | mg/L   | 06/17/1996 | dla     | 3   |
| Ortho-terphenyl (SURR)      | 100     |         |           |       | % Rec. | 06/17/1996 | dla     | 3   |
| 8015M - HEAVY SCAN          |         |         |           |       |        |            |         |     |
| as Bunker C                 | ND      | 10      |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Creosote                 | ND      | 10      |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Diesel                   | ND      | 1.0     |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Hydraulic Oil            | ND      | 10      |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Kerosene                 | ND      | 1.0     |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Motor Oil                | ND      | 10      |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Stoddard Solvent         | ND      | 1.0     |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| as Transmission Fluid       | ND      | 1.0     |           |       | mg/kg  | 06/17/1996 | dla     | 5   |
| Ortho-terphenyl (SURR)      | 132     |         |           |       | % Rec. | 06/17/1996 | dla     | 5   |

\*\* Blank contains one large peak which appears to be a phthalate.

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## METHOD BLANK REPORT

| Parameter                   | Method | Reporting | Flags | Units | Date       | Analyst | Run |
|-----------------------------|--------|-----------|-------|-------|------------|---------|-----|
|                             | Blank  |           |       |       |            |         |     |
| 8260 (GCMS, Liquid, PACOE)  |        |           |       |       |            |         |     |
| Acetone                     | ND     | 8.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Benzene                     | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Bromobenzene                | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Bromochloromethane          | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Bromodichloromethane        | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Bromoform                   | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Bromomethane                | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 2-Butanone                  | ND     | 30        |       | ug/L  | 06/17/1996 | jde     | 234 |
| n-Butylbenzene              | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| sec-Butylbenzene            | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| tert-Butylbenzene           | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Carbon tetrachloride        | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Chlorobenzene               | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Chloroethane                | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Chloroform                  | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Chloromethane               | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 2-Chlorotoluene             | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 4-Chlorotoluene             | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,2-Dibromo-3-chloropropane | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,2-Dibromoethane           | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Dibromochloromethane        | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Dibromomethane              | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,2-Dichlorobenzene         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,3-Dichlorobenzene         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,4-Dichlorobenzene         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Dichlorodifluoromethane     | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,1-Dichloroethane          | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,2-Dichloroethane          | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,1-Dichloroethene          | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| cis-1,2-Dichloroethene      | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| trans-1,2-Dichloroethene    | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,2-Dichloropropane         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,3-Dichloropropane         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 2,2-Dichloropropane         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| cis-1,3-Dichloropropene     | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| 1,1-Dichloropropene         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| trans-1,3-Dichloropropene   | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Ethyl benzene               | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Hexachlorobutadiene         | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Isopropylbenzene            | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| p-Isopropyltoluene          | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Methylene chloride          | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| Naphthalene                 | ND     | 1.0       |       | ug/L  | 06/17/1996 | jde     | 234 |
| n-Propylbenzene             | ND     | 4.0       |       | ug/L  | 06/17/1996 | jde     | 234 |

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## METHOD BLANK REPORT

| Parameter                    | Method | Reporting | Flags | Units  | Date       | Analyst | Run |
|------------------------------|--------|-----------|-------|--------|------------|---------|-----|
|                              | Blank  |           |       |        |            |         |     |
| Styrene                      | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,1,1,2-Tetrachloroethane    | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,1,2,2-Tetrachloroethane    | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| Tetrachloroethene            | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,2,3-Trichlorobenzene       | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,2,4-Trichlorobenzene       | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,1,1-Trichloroethane        | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,1,2-Trichloroethane        | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| Trichloroethene              | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| Trichlorofluoromethane       | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,2,3-Trichloropropane       | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,2,4-Trimethylbenzene       | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 1,3,5-Trimethylbenzene       | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| Toluene                      | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| Vinyl chloride               | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| o-Xylene                     | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| m&p-Xylene                   | ND     | 1.0       |       | ug/L   | 06/17/1996 | jde     | 234 |
| 4-Bromofluorobenzene (SURR)  | 102    |           |       | ‡ Rec. | 06/17/1996 | jde     | 234 |
| Toluene-d8 (SURR)            | 98     |           |       | ‡ Rec. | 06/17/1996 | jde     | 234 |
| 1,2-Dichloroethane-d4 (SURR) | 93     |           |       | ‡ Rec. | 06/17/1996 | jde     | 234 |

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## METHOD BLANK REPORT

| Parameter                   | Method | Reporting | Flags | Units | Date       | Analyst | Run    |
|-----------------------------|--------|-----------|-------|-------|------------|---------|--------|
|                             | Blank  |           |       |       |            |         |        |
|                             | Found  |           |       |       |            |         | Number |
| 8260 (GCMS, Liquid, PACOE)  |        |           |       |       |            |         |        |
| Acetone                     | ND     | 8.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Benzene                     | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Bromobenzene                | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Bromochloromethane          | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Bromodichloromethane        | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Bromoform                   | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Bromomethane                | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 2-Butanone                  | ND     | 30        |       | ug/L  | 06/18/1996 | jde     | 234    |
| n-Butylbenzene              | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| sec-Butylbenzene            | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| tert-Butylbenzene           | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Carbon tetrachloride        | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Chlorobenzene               | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Chloroethane                | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Chloroform                  | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Chloromethane               | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 2-Chlorotoluene             | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 4-Chlorotoluene             | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,2-Dibromo-3-chloropropane | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,2-Dibromoethane           | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Dibromochloromethane        | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Dibromomethane              | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,2-Dichlorobenzene         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,3-Dichlorobenzene         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,4-Dichlorobenzene         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Dichlorodifluoromethane     | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,1-Dichloroethane          | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,2-Dichloroethane          | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,1-Dichloroethene          | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| cis-1,2-Dichloroethene      | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| trans-1,2-Dichloroethene    | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,2-Dichloropropane         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,3-Dichloropropane         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 2,2-Dichloropropane         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| cis-1,3-Dichloropropene     | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| 1,1-Dichloropropene         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| trans-1,3-Dichloropropene   | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Ethyl benzene               | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Hexachlorobutadiene         | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Isopropylbenzene            | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| p-Isopropyltoluene          | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Methylene chloride          | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| Naphthalene                 | ND     | 1.0       |       | ug/L  | 06/18/1996 | jde     | 234    |
| n-Propylbenzene             | ND     | 4.0       |       | ug/L  | 06/18/1996 | jde     | 234    |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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## METHOD BLANK REPORT

| Parameter                    | Method | Reporting | Flags | Units  | Date       | Analyst | Run |
|------------------------------|--------|-----------|-------|--------|------------|---------|-----|
|                              | Blank  |           |       |        |            |         |     |
| Styrene                      | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,1,1,2-Tetrachloroethane    | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,1,2,2-Tetrachloroethane    | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| Tetrachloroethene            | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,2,3-Trichlorobenzene       | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,2,4-Trichlorobenzene       | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,1,1-Trichloroethane        | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,1,2-Trichloroethane        | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| Trichloroethene              | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| Trichlorofluoromethane       | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,2,3-Trichloropropane       | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,2,4-Trimethylbenzene       | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 1,3,5-Trimethylbenzene       | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| Toluene                      | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| Vinyl chloride               | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| o-Xylene                     | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| m&p-Xylene                   | ND     | 1.0       |       | ug/L   | 06/18/1996 | jde     | 234 |
| 4-Bromofluorobenzene (SURR)  | 101    |           |       | ‡ Rec. | 06/18/1996 | jde     | 234 |
| Toluene-d8 (SURR)            | 99     |           |       | ‡ Rec. | 06/18/1996 | jde     | 234 |
| 1,2-Dichloroethane-d4 (SURR) | 91     |           |       | ‡ Rec. | 06/18/1996 | jde     | 234 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

## METHOD BLANK REPORT

| Parameter                    | Method | Reporting | Flags | Units  | Date       | Analyst | Run    |
|------------------------------|--------|-----------|-------|--------|------------|---------|--------|
|                              | Blank  |           |       |        |            |         |        |
|                              | Found  | Limit     |       |        |            |         | Number |
| 8240 (GCMS, Solid)           |        |           |       |        |            |         |        |
| Benzene                      | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Acetone                      | ND     | 10        |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Bromodichloromethane         | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Bromoform                    | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Bromomethane                 | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 2-Butanone                   | ND     | 10        |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Carbon disulfide             | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Carbon tetrachloride         | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Chlorobenzene                | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Chloroethane                 | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 2-Chloroethyl vinyl ether    | ND     | 10        |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Chloroform                   | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Chloromethane                | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Dibromochloromethane         | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,2-Dichlorobenzene          | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,3-Dichlorobenzene          | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,4-Dichlorobenzene          | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,1-Dichloroethane           | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,2-Dichloroethane           | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,1-Dichloroethene           | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| trans-1,2-Dichloroethene     | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,2-Dichloropropane          | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| cis-1,3-Dichloropropene      | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| trans-1,3-Dichloropropene    | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Ethyl benzene                | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Freon 113                    | ND     | 0.50      |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 2-Hexanone                   | ND     | 10        |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Methylene chloride           | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 4-Methyl-2-pentanone         | ND     | 10        |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Styrene                      | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,1,2,2-Tetrachloroethane    | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Tetrachloroethene            | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Toluene                      | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,1,1-Trichloroethane        | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| 1,1,2-Trichloroethane        | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Trichloroethene              | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Trichlorofluoromethane       | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Vinyl acetate                | ND     | 10        |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Vinyl chloride               | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Xylenes (total)              | ND     | 5.0       |       | ug/kg  | 06/13/1996 | klh     | 447    |
| Toluene-d8 (SURR)            | 97     |           |       | % Rec. | 06/13/1996 | klh     | 447    |
| Bromofluorobenzene (SURR)    | 103    |           |       | % Rec. | 06/13/1996 | klh     | 447    |
| 1,2-Dichloroethane-d4 (SURR) | 89     |           |       | % Rec. | 06/13/1996 | klh     | 447    |

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Ref: Runnels Industry/Job No. 96004

## METHOD BLANK REPORT

| Parameter                    | Method             |                 |       | Units  | Date Analyzed | Analyst Initials | Run Batch Number |
|------------------------------|--------------------|-----------------|-------|--------|---------------|------------------|------------------|
|                              | Blank Amount Found | Reporting Limit | Flags |        |               |                  |                  |
| 8240 (GCMS, Solid)           |                    |                 |       |        |               |                  |                  |
| Benzene                      | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Acetone                      | ND                 | 10              |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Bromodichloromethane         | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Bromoform                    | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Bromomethane                 | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 2-Butanone                   | ND                 | 10              |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Carbon disulfide             | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Carbon tetrachloride         | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Chlorobenzene                | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Chloroethane                 | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 2-Chloroethyl vinyl ether    | ND                 | 10              |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Chloroform                   | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Chloromethane                | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Dibromochloromethane         | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,2-Dichlorobenzene          | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,3-Dichlorobenzene          | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,4-Dichlorobenzene          | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,1-Dichloroethane           | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,2-Dichloroethane           | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,1-Dichloroethene           | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| trans-1,2-Dichloroethene     | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,2-Dichloropropane          | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| cis-1,3-Dichloropropene      | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| trans-1,3-Dichloropropene    | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Ethyl benzene                | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Freon 113                    | ND                 | 0.50            |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 2-Hexanone                   | ND                 | 10              |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Methylene chloride           | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 4-Methyl-2-pentanone         | ND                 | 10              |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Styrene                      | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,1,2,2-Tetrachloroethane    | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Tetrachloroethene            | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Toluene                      | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,1,1-Trichloroethane        | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| 1,1,2-Trichloroethane        | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Trichloroethene              | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Trichlorofluoromethane       | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Vinyl acetate                | ND                 | 10              |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Vinyl chloride               | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Xylenes (total)              | ND                 | 5.0             |       | ug/kg  | 06/14/1996    | klh              | 447              |
| Toluene-d8 (SURR)            | 94                 |                 |       | % Rec. | 06/14/1996    | klh              | 447              |
| Bromofluorobenzene (SURR)    | 100                |                 |       | % Rec. | 06/14/1996    | klh              | 447              |
| 1,2-Dichloroethane-d4 (SURR) | 93                 |                 |       | % Rec. | 06/14/1996    | klh              | 447              |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter                   | Matrix Spike |        | RPD  | Spike Amount | Sample Conc. | Matrix Spike |        | Flags | Units   | Date Analyzed | Run Batch | Sample Spiked |
|-----------------------------|--------------|--------|------|--------------|--------------|--------------|--------|-------|---------|---------------|-----------|---------------|
|                             | % Rec.       | % Rec. |      |              |              | Conc.        | Conc.  |       |         |               |           |               |
| METHOD 6010 (DISSOLVED)     |              |        | 0    | --           |              |              |        |       |         | 06/17/1996    | 143       | 264941        |
| Antimony (ICP, Dissolved)   | 109.4        | 109.3  | 0.1  | 10.0         | ND           | 10.94        | 10.93  |       | mg/L    | 06/14/1996    | 139       | 264985        |
| Arsenic (GFAA, Dissolved)   | 95.8         | 96.3   | 0.5  | 0.02149      | ND           | 0.02059      | 0.0206 |       | mg/L    | 06/17/1996    | 550       | 265147        |
| Cadmium (ICP, Dissolved)    | 104.7        | 105.0  | 0.3  | 1.00         | ND           | 1.047        | 1.050  |       | mg/L    | 06/14/1996    | 141       | 264985        |
| Chromium (ICP, Dissolved)   | 106.9        | 106.5  | 0.4  | 1.00         | ND           | 1.069        | 1.065  |       | mg/L    | 06/14/1996    | 593       | 264985        |
| Cobalt (ICP, Dissolved)     | 102.9        | 102.8  | 0.1  | 1.00         | ND           | 1.029        | 1.028  |       | mg/L    | 06/14/1996    | 139       | 264985        |
| Lead (GFAA, Dissolved)      | 100.4        | 99.3   | 1.0  | 0.01157      | ND           | 0.01162      | 0.0114 |       | mg/L    | 06/17/1996    | 609       | 265147        |
| Mercury (CVAA, Dissolved)   | --           | --     | --   | 0.0050       | ND           | --           | --     | NI1   | mg/L    | 06/13/1996    | 384       | 264985        |
| Molybdenum (ICP, Dissolved) | 106.3        | 105.9  | 0.4  | 1.00         | ND           | 1.063        | 1.059  |       | mg/L    | 06/14/1996    | 139       | 264985        |
| Nickel (ICP, Dissolved)     | 105.8        | 104.8  | 0.9  | 1.00         | 0.16         | 1.218        | 1.208  |       | mg/L    | 06/14/1996    | 593       | 264985        |
| Zinc (ICP, Dissolved)       | 111.0        | 110.9  | 0.1  | 1.00         | ND           | 1.110        | 1.109  |       | mg/L    | 06/14/1996    | 764       | 264985        |
| METHOD 6010 (SOLID)         |              |        |      | --           |              |              |        |       |         | 06/14/1996    | 769       | 265086        |
| Antimony (ICP)              | --           | --     | --   | 833.3        | ND           | --           | --     | NI3   | mg/kg   | 06/14/1996    | 838       | 265086        |
| Arsenic (GFAA)              | 90.3         | 93.8   | 3.8  | 5.00         | 2.1          | 6.613        | 6.700  |       | mg/kg   | 06/13/1996    | 587       | 265063        |
| Cadmium (ICP)               | 81.9         | 79.7   | 2.7  | 83.33        | ND           | 68.25        | 51.42  |       | mg/kg   | 06/14/1996    | 692       | 265086        |
| Chromium (ICP)              | 81.5         | 73.2   | 10.7 | 83.33        | 66           | 133.9        | 113.2  | MI    | mg/kg d | 06/14/1996    | 703       | 265086        |
| Cobalt (ICP)                | 80.1         | 74.7   | 7.0  | 83.33        | 21           | 87.71        | 69.18  | MI    | mg/kg   | 06/14/1996    | 840       | 265086        |
| Lead (GFAA)                 | --           | --     | --   | 2.500        | 43           | --           | --     | NI2   | mg/kg   | 06/13/1996    | 769       | 265063        |
| Mercury (CVAA)              | 99.2         | 98.7   | 0.5  | 0.397        | 0.04         | 0.434        | 0.414  |       | mg/kg   | 06/12/1996    | 365       | 264855        |
| Molybdenum (ICP)            | 82.6         | 78.2   | 5.5  | 83.33        | ND           | 68.81        | 50.47  |       | mg/kg   | 06/14/1996    | 639       | 265086        |
| Nickel (ICP)                | 82.3         | 75.8   | 8.2  | 83.33        | 31           | 99.55        | 79.88  |       | mg/kg d | 06/14/1996    | 596       | 265086        |
| Zinc (ICP)                  | --           | --     | --   | 83.33        | 300          | --           | --     | *M    | mg/kg d | 06/14/1996    | 641       | 265086        |
| 8015M - HEAVY SCAN          |              |        |      |              |              |              |        |       |         |               |           | 265076        |
| as Diesel                   | 79.5         | 72.1   | 9.8  | 1.90         | 0.09         | 1.60         | 1.46   |       | mg/L    | 06/17/1996    | 3         | 265076        |
| 8015M - HEAVY SCAN          |              |        |      |              |              |              |        |       |         |               |           | 264950        |
| as Diesel                   | 79.0         | 77.2   | 2.3  | 16.7         | 5.9          | 19.1         | 18.8   |       | mg/kg   | 06/17/1996    | 5         | 264950        |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Runnels Industry/Job No. 96004

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter                    | Matrix Spike |        | RPD  | Spike Amount | Sample Conc. | Matrix Spike Dup. |       | Flags | Units  | Date Analyzed | Run Batch | Sample Spiked |
|------------------------------|--------------|--------|------|--------------|--------------|-------------------|-------|-------|--------|---------------|-----------|---------------|
|                              | % Rec.       | % Rec. |      |              |              | Conc.             | Conc. |       |        |               |           |               |
| B260 (GCMS, Liquid, PACOE)   |              |        |      |              |              |                   |       |       |        |               |           | 264988        |
| Benzene                      | 94.8         | 103.0  | 8.2  | 10.0         | ND           | 9.48              | 10.3  |       | ug/L   | 06/17/1996    | 234       | 264988        |
| Chlorobenzene                | 96.1         | 108.0  | 11.6 | 10.0         | ND           | 9.61              | 10.8  |       | ug/L   | 06/17/1996    | 234       | 264988        |
| 1,1-Dichloroethene **        | 190.0        | 100.0  | 62.1 | 10.0         | 130          | 149               | 140   | FB    | ug/L   | 06/17/1996    | 234       | 264988        |
| Trichloroethene              | 93.0         | 97.0   | 4.2  | 10.0         | 4.8          | 14.1              | 14.5  |       | ug/L   | 06/17/1996    | 234       | 264988        |
| Toluene                      | 94.8         | 105.0  | 10.1 | 10.0         | ND           | 9.48              | 10.5  |       | ug/L   | 06/17/1996    | 234       | 264988        |
| 4-Bromofluorobenzene (SURR)  | 102.0        | 104.0  | 1.9  | 100          | 100          | 102               | 104   |       | % Rec. | 06/17/1996    | 234       | 264988        |
| Toluene-d8 (SURR)            | 98.0         | 102.0  | 3.9  | 100          | 98           | 98                | 102   |       | % Rec. | 06/17/1996    | 234       | 264988        |
| 1,2-Dichloroethane-d4 (SURR) | 94.0         | 95.0   | 1.1  | 100          | 89           | 94                | 95    |       | % Rec. | 06/17/1996    | 234       | 264988        |

\*\* MS and RPD % recoveries are outside of the acceptance limits. Sample concentration is greater than four times the spiking level therefore the spiking level is insignificant.

Ref: Runnels Industry/Job No. 96004

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter                    | Matrix Spike |        | RPD  | Spike Amount | Sample Conc. | Matrix Spike |       | Flags | Units  | Date Analyzed | Run Batch | Sample Spiked |
|------------------------------|--------------|--------|------|--------------|--------------|--------------|-------|-------|--------|---------------|-----------|---------------|
|                              | % Rec.       | % Rec. |      |              |              | Conc.        | Conc. |       |        |               |           |               |
| 8240 (GCMS, Solid)           |              |        |      |              |              |              |       |       |        |               |           | 264979        |
| Benzene                      | 85.6         | 93.6   | 8.9  | 50.0         | ND           | 42.8         | 46.8  |       | ug/kg  | 06/13/1996    | 447       | 264979        |
| Chlorobenzene                | 86.6         | 96.6   | 10.9 | 50.0         | ND           | 43.3         | 48.3  |       | ug/kg  | 06/13/1996    | 447       | 264979        |
| 1,1-Dichloroethene           | 86.6         | 90.4   | 4.3  | 50.0         | ND           | 43.3         | 45.2  |       | ug/kg  | 06/13/1996    | 447       | 264979        |
| Toluene                      | 86.0         | 99.4   | 14.5 | 50.0         | ND           | 43.0         | 49.7  |       | ug/kg  | 06/13/1996    | 447       | 264979        |
| Trichloroethene              | 132.8        | 132.4  | 0.3  | 50.0         | ND           | 66.4         | 66.2  |       | ug/kg  | 06/13/1996    | 447       | 264979        |
| Toluene-d8 (SURR)            | 101.0        | 106.0  | 4.8  | 100          | 96           | 101          | 106   |       | % Rec. | 06/13/1996    | 447       | 264979        |
| Bromofluorobenzene (SURR)    | 98.0         | 101.0  | 2.9  | 100          | 91           | 98           | 101   |       | % Rec. | 06/13/1996    | 447       | 264979        |
| 1,2-Dichloroethane-d4 (SURR) | 94.0         | 96.0   | 2.1  | 100          | 92           | 94           | 96    |       | % Rec. | 06/13/1996    | 447       | 264979        |

Low % recovery for internal standard number 4 due to heavy hydrocarbon interference.

No compounds were quantitated from this internal standard. Analyzed twice with similar results.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
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Ref: Runnels Industry/Job No. 96004

## LABORATORY CONTROL SAMPLE REPORT

| Parameter                   | LCS<br>% Rec. | DUP           |               | RPD | DUP           |             |        | Flags | Units  | Date<br>Analyzed | Analyst<br>Initials | Run<br>Batch |
|-----------------------------|---------------|---------------|---------------|-----|---------------|-------------|--------|-------|--------|------------------|---------------------|--------------|
|                             |               | LCS<br>% Rec. | LCS<br>Amount |     | LCS<br>Amount | LCS<br>Exp. |        |       |        |                  |                     |              |
| METHOD 6010 (DISSOLVED)     | 100.0         |               |               |     | 1             |             | 1      |       |        | 06/14/1996       | jeo                 | 143          |
| Antimony (ICP, Dissolved)   | 101.9         |               |               |     | 10.19         |             | 10.0   |       | mg/L   | 06/14/1996       | jeo                 | 139          |
| Arsenic (GFAA, Dissolved)   | 101.5         |               |               |     | 0.05073       |             | 0.0500 |       | mg/L   | 06/17/1996       | ket                 | 550          |
| Cadmium (ICP, Dissolved)    | 104.9         |               |               |     | 1.049         |             | 1.00   |       | mg/L   | 06/14/1996       | jeo                 | 141          |
| Chromium (ICP, Dissolved)   | 103.9         |               |               |     | 1.039         |             | 1.00   |       | mg/L   | 06/14/1996       | jeo                 | 593          |
| Cobalt (ICP, Dissolved)     | 102.8         |               |               |     | 1.028         |             | 1.00   |       | mg/L   | 06/14/1996       | jeo                 | 139          |
| Lead (GFAA, Dissolved)      | 92.3          |               |               |     | 0.02307       |             | 0.0250 |       | mg/L   | 06/17/1996       | ket                 | 609          |
| Mercury (CVAA, Dissolved)   | 106.6         |               |               |     | 0.00533       |             | 0.0050 |       | mg/L   | 06/13/1996       | ket                 | 384          |
| Molybdenum (ICP, Dissolved) | 100.3         |               |               |     | 1.003         |             | 1.00   |       | mg/L   | 06/14/1996       | jeo                 | 139          |
| Nickel (ICP, Dissolved)     | 104.8         |               |               |     | 1.048         |             | 1.00   |       | mg/L   | 06/14/1996       | jeo                 | 593          |
| Zinc (ICP, Dissolved)       | 102.6         |               |               |     | 1.026         |             | 1.00   |       | mg/L   | 06/14/1996       | jeo                 | 764          |
| Arsenic (GFAA)              | 104.4         |               |               |     | 5.218         |             | 5.00   |       | mg/kg  | 06/13/1996       | ket                 | 587          |
| Lead (GFAA)                 | 97.9          |               |               |     | 2.448         |             | 2.50   |       | mg/kg  | 06/13/1996       | ket                 | 769          |
| Mercury (CVAA)              | 102.6         |               |               |     | 0.428         |             | 0.417  |       | mg/kg  | 06/12/1996       | ket                 | 365          |
| 8015M - HEAVY SCAN          |               |               |               |     |               |             |        |       |        |                  |                     |              |
| as Diesel                   | 72.0          |               |               |     | 0.72          |             | 1.0    |       | mg/L   | 06/17/1996       | dla                 | 3            |
| Ortho-terphenyl (SURR)      | 95.0          |               |               |     | 95            |             | 100    |       | % Rec. | 06/17/1996       | dla                 | 3            |
| 8015M - HEAVY SCAN          |               |               |               |     |               |             |        |       |        |                  |                     |              |
| as Diesel                   | 87.4          |               |               |     | 14.6          |             | 16.7   |       | mg/kg  | 06/17/1996       | dla                 | 5            |
| Ortho-terphenyl (SURR)      | 141.0         |               |               |     | 141           |             | 100    |       | % Rec. | 06/17/1996       | dla                 | 5            |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 45

Ref: Runnels Industry/Job No. 96004

## LABORATORY CONTROL SAMPLE REPORT

| Parameter                    | DUP        |            | RPD | DUP              |                  |                 | Flags  | Units | Date Analyzed | Analyst Initials | Run Batch |
|------------------------------|------------|------------|-----|------------------|------------------|-----------------|--------|-------|---------------|------------------|-----------|
|                              | LCS % Rec. | LCS % Rec. |     | LCS Amount Found | LCS Amount Found | LCS Amount Exp. |        |       |               |                  |           |
| 8260 (GCMS, Liquid, PACOE)   |            |            |     |                  |                  |                 |        |       |               |                  |           |
| Benzene                      | 86.1       |            |     | 8.61             |                  | 10.0            |        | ug/L  | 06/17/1996    | jde              | 234       |
| Chlorobenzene                | 94.7       |            |     | 9.47             |                  | 10.0            |        | ug/L  | 06/17/1996    | jde              | 234       |
| 1,1-Dichloroethene           | 92.7       |            |     | 9.27             |                  | 10.0            |        | ug/L  | 06/17/1996    | jde              | 234       |
| Trichloroethene              | 87.9       |            |     | 8.79             |                  | 10.0            |        | ug/L  | 06/17/1996    | jde              | 234       |
| Toluene                      | 91.7       |            |     | 9.17             |                  | 10.0            |        | ug/L  | 06/17/1996    | jde              | 234       |
| 4-Bromofluorobenzene (SURR)  | 106.0      |            |     | 106              |                  | 100             | % Rec. |       | 06/17/1996    | jde              | 234       |
| Toluene-d8 (SURR)            | 102.0      |            |     | 102              |                  | 100             | % Rec. |       | 06/17/1996    | jde              | 234       |
| 1,2-Dichloroethane-d4 (SURR) | 92.0       |            |     | 92               |                  | 100             | % Rec. |       | 06/17/1996    | jde              | 234       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
 Client Acct: 49500  
 NET Job No: 96.01833

Date: 06/25/1996  
 ELAP Cert: 1386  
 Page: 46

Ref: Runnels Industry/Job No. 96004

## LABORATORY CONTROL SAMPLE REPORT

| Parameter                    | DUP           |               | LCS<br>Amount<br>Found | DUP                    |                       | LCS<br>Amount<br>Exp. | Flags | Units  | Date<br>Analyzed | Analyst<br>Initials | Run<br>Batch |
|------------------------------|---------------|---------------|------------------------|------------------------|-----------------------|-----------------------|-------|--------|------------------|---------------------|--------------|
|                              | LCS<br>% Rec. | LCS<br>% Rec. |                        | LCS<br>Amount<br>Found | LCS<br>Amount<br>Exp. |                       |       |        |                  |                     |              |
| 8240 (GCMS, Solid)           |               |               |                        |                        |                       |                       |       |        |                  |                     |              |
| Benzene                      | 89.4          |               | 44.7                   |                        | 50.0                  |                       |       | ug/kg  | 06/14/1996       | klh                 | 447          |
| Chlorobenzene                | 92.6          |               | 46.3                   |                        | 50.0                  |                       |       | ug/kg  | 06/14/1996       | klh                 | 447          |
| 1,1-Dichloroethene           | 90.8          |               | 45.4                   |                        | 50.0                  |                       |       | ug/kg  | 06/14/1996       | klh                 | 447          |
| Toluene                      | 91.4          |               | 45.7                   |                        | 50.0                  |                       |       | ug/kg  | 06/14/1996       | klh                 | 447          |
| Trichloroethene              | 95.0          |               | 47.5                   |                        | 50.0                  |                       |       | ug/kg  | 06/14/1996       | klh                 | 447          |
| Toluene-d8 (SURR)            | 101.0         |               | 101                    |                        | 100                   |                       |       | % Rec. | 06/14/1996       | klh                 | 447          |
| Bromofluorobenzene (SURR)    | 102.0         |               | 102                    |                        | 100                   |                       |       | % Rec. | 06/14/1996       | klh                 | 447          |
| 1,2-Dichloroethane-d4 (SURR) | 95.0          |               | 95                     |                        | 100                   |                       |       | % Rec. | 06/14/1996       | klh                 | 447          |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blymyer Engineers, Inc  
Client Acct: 49500  
NET Job No: 96.01833

Date: 06/25/1996  
ELAP Cert: 1386  
Page: 47

Ref: Runnels Industry/Job No. 96004

## LABORATORY CONTROL SAMPLE REPORT

| Parameter                    | DUP        |            | RPD | DUP              |                  |                 | Flags | Units  | Date Analyzed | Analyst Initials | Run Batch |
|------------------------------|------------|------------|-----|------------------|------------------|-----------------|-------|--------|---------------|------------------|-----------|
|                              | LCS % Rec. | LCS % Rec. |     | LCS Amount Found | LCS Amount Found | LCS Amount Exp. |       |        |               |                  |           |
| 8240 (GCMS, Solid)           |            |            |     |                  |                  |                 |       |        |               |                  |           |
| Benzene                      | 101.6      |            |     | 50.8             |                  | 50.0            |       | ug/kg  | 06/13/1996    | klh              | 447       |
| Chlorobenzene                | 104.2      |            |     | 52.1             |                  | 50.0            |       | ug/kg  | 06/13/1996    | klh              | 447       |
| 1,1-Dichloroethene           | 89.2       |            |     | 44.6             |                  | 50.0            |       | ug/kg  | 06/13/1996    | klh              | 447       |
| Toluene                      | 101.0      |            |     | 50.5             |                  | 50.0            |       | ug/kg  | 06/13/1996    | klh              | 447       |
| Trichloroethene              | 101.2      |            |     | 50.6             |                  | 50.0            |       | ug/kg  | 06/13/1996    | klh              | 447       |
| Toluene-d8 (SURR)            | 100.0      |            |     | 100              |                  | 100             |       | % Rec. | 06/13/1996    | klh              | 447       |
| Bromofluorobenzene (SURR)    | 101.0      |            |     | 101              |                  | 100             |       | % Rec. | 06/13/1996    | klh              | 447       |
| 1,2-Dichloroethane-d4 (SURR) | 96.0       |            |     | 96               |                  | 100             |       | % Rec. | 06/13/1996    | klh              | 447       |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

## KEY TO RESULT FLAGS

- \* : RPD between sample duplicates exceeds 30%.
- \*M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HT : Analysis performed outside of the method specified holding time.
- HTC : Confirmation analyzed outside of the method specified holding time.
- HTP : Prep procedure performed outside of the method specified holding time.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA\* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- UMDL : Undetected at the Method Detection Limit.

# BLMYER

ENGINEERS, INC.

1829 Clement Avenue

Alameda, CA 94501 (510) 521-3773 FAX (510) 865-2594



## CHAIN OF CUSTODY RECORD

#1510

PAGE 1 OF 2

| JOB #                |  | PROJECT NAME/LOCATION |      |      |      | # OF CONTAINERS | TPH AS GASOLINE + BTXE (MOD EPA 8015/8020) | TPH AS DIESEL (MOD EPA 8015) | VOC (EPA 62/8240) | SEM-VOC (EPA 625/8270) | TPPH (EPA 418.1) | BTXE (EPA 8020/602) | Sb   Ar   Cd   Cr   Co   Pb   Hg   Mn   Ni   Zn | HOLD | TURNAROUND TIME: <u>10/5</u> DAY(S)<br>REMARKS:<br>Run standards for TPH as Diesel<br>as standard sol<br>as motor oil<br>Soluble metals;<br>Samples unpreserved, unfiltered<br>Held @ Blymyer |
|----------------------|--|-----------------------|------|------|------|-----------------|--|------------------------------|-------------------|------------------------|------------------|---------------------|---|------|---|
| SAMPLERS (SIGNATURE) |  | DATE                  | TIME | COMP | GRAB |                 |  |                              |                   |                        |                  |                     |   |      |   |
| 910004               |  | Rumel's Industry      |      |      |      |                 |  |                              |                   |                        |                  |                     |   |      |   |
| Mark Dittman         |  |                       |      |      |      |                 |  |                              |                   |                        |                  |                     |   |      |   |
|                      |  | 6/7/96                | 700  |      | X    | SB B6-2.5       | 1  | X                            | X                 |                        |                  | X                   | X   |      |   |
|                      |  |                       | 1000 |      | Y    | B2-2.5          | 1  |                              |                   |                        |                  |                     |   |      |   |
|                      |  |                       | 1030 |      | X    | B4-1.0          | 1  |                              |                   |                        |                  |                     |   |      |   |
|                      |  |                       | 1040 |      | X    | B4-7            | 1  |                              |                   |                        |                  |                     |   |      |   |
|                      |  |                       | 1110 |      | X    | B3-2            | 1  |                              |                   |                        |                  |                     |   |      |   |
|                      |  |                       | 1150 |      | X    | B1-3            | 1  |                              |                   |                        |                  |                     |   |      |   |
|                      |  |                       | 145  |      | X    | B5-1/2          | 2  |                              |                   |                        |                  |                     |   |      |   |

**CUSTODY SEALED**  
 Date 6/10/96 Time 1613 Initials MS  
**SEAL INTACT?**  
 Yes  No  Initials MS

|   |  |                             |  |   |  |                              |  |
|---|--|-----------------------------|--|---|--|------------------------------|--|
| REQUESTED BY:<br>Mark Dittman                   |  |                             |  | RESULTS AND INVOICE TO:<br>Mark Dittman             |  |                              |  |
| RELINQUISHED BY: (SIGNATURE)<br>Mark E. Dittman |  | DATE / TIME<br>6/10/96 1018 |  | RECEIVED BY: (SIGNATURE)<br>P. Brant                |  | DATE / TIME<br>6/10/96 1613  |  |
| RELINQUISHED BY: (SIGNATURE)                    |  | DATE / TIME                 |  | RECEIVED FOR LABORATORY BY: (SIGNATURE)<br>P. Brant |  | DATE / TIME<br>6/11/96 08:00 |  |
|   |  |                             |  | REMARKS:  |  |                              |  |

# BLMYER

ENGINEERS, INC.

1829 Clement Avenue

Alameda, CA 94501

(510) 521-3773

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## CHAIN OF CUSTODY RECORD

per memo to file 6/17/96

300

| JOB #                |                    | PROJECT NAME/LOCATION |      |                      |   | # OF CONTAINERS | TPH AS GASOLINE + BTX (MOD EPA 8015/8020) | TPH AS DIESEL (MOD EPA 8015) | VOC (EPA 661/664/667) <del>8260</del> | SEM-VOC (EPA 625/8270) | TRPH (EPA 418.1) | BTX (EPA 8020/602) | Sb/Ar/Cl/Co/Pb | Hg/Mo/Ni/Zn | HOLD | TURNAROUND TIME: 10/15 DAY(S)   | REMARKS: |
|----------------------|--------------------|-----------------------|------|----------------------|---|-----------------|---|------------------------------|---------------------------------------|------------------------|------------------|--------------------|----------------|-------------|------|---|----------|
| SAMPLERS (SIGNATURE) |                    | SAMPLERS (SIGNATURE)  |      |                      |   |                 |   |                              |                                       |                        |                  |                    |                |             |      | Run standards for TPH as diesel & topped solvent motor oil<br>Soluble metals; Samples unpreserved, unfiltered |          |
| DATE                 | TIME               | COMP                  | GRAB | SAMPLE NAME/LOCATION |   |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
| 96004                | Remolds Industries |                       |      |                      |   |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
| Mark Dotson          |                    | Mark Dotson           |      |                      |   |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
| 6/7/96               | 940                |                       | X    | Blew                 | 6 |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
|                      | 1010               |                       | X    | B2W                  | 6 |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
|                      | 1045               |                       | X    | B4W                  | 6 |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
|                      | 1125               |                       | X    | B3W                  | 6 |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |
|                      | 1215               |                       | X    | B1W                  | 6 |                 |   |                              |                                       |                        |                  |                    |                |             |      |   |          |

CUSTODY SEALED  
 Date 6/10/96 Time 16:11 Initials LIS  
 SEAL INTACT?  
 Yes [initials] No [initials]

|                              |              |   |               |                                   |              |                          |             |
|------------------------------|--------------|---|---------------|-----------------------------------|--------------|--------------------------|-------------|
| REQUESTED BY: Mark Dotson    |              |   |               | RESULTS AND INVOICE TO: M. Dotson |              |                          |             |
| RELINQUISHED BY: (SIGNATURE) | DATE / TIME  | RECEIVED BY: (SIGNATURE)                | DATE / TIME   | RELINQUISHED BY: (SIGNATURE)      | DATE / TIME  | RECEIVED BY: (SIGNATURE) | DATE / TIME |
| Mark Dotson                  | 6/10/96 1018 | P. Smart                                | 6/10/96 1018  | P. Smart                          | 6/10/96 1611 |                          |             |
| RELINQUISHED BY: (SIGNATURE) | DATE / TIME  | RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE / TIME   | REMARKS:                          |              |                          |             |
|                              |              | J. Thorne                               | 6/11/96 08:00 | VIA: MCS                          |              |                          |             |

WHITE: Accompany Sample      YELLOW: BEI, After Lab Signs      PINK: Original Sampler

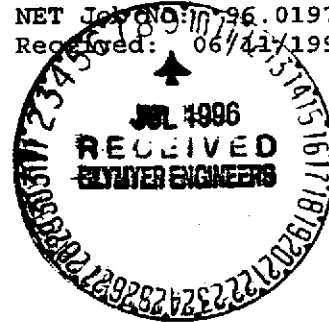


NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
3636 North Laughlin Road  
Suite 110  
Santa Rosa, CA 95403-8226  
Tel: (707) 526-7200  
Fax: (707) 541-2333

Mike Lewis  
Blymyer Engineers, Inc  
1829 Clement Ave  
Alameda, CA 94501

Date: 07/05/1996  
NET Client Acct. No: 49500  
NET Job No: 96.01974  
Received: 06/41/1996



Client Reference Information

Runnels Industry/Job No. 96004

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2307.

Submitted by:

 for:

Judy Ridley  
Project Coordinator

Enclosure(s)

Client Name: Blymyer Engineers, Inc  
Client Acct: 49500  
NET Job No: 96.01974

Date: 07/05/1996  
ELAP Cert: 1386  
Page: 2

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B4-1.0  
Date Taken: 06/07/1996  
Time Taken: 10:30  
NET Sample No: 265564

| Parameter       | Results | Flags | Reporting |       | Method   | Date       | Date       | Run<br>Batch<br>No. |
|-----------------|---------|-------|-----------|-------|----------|------------|------------|---------------------|
|                 |         |       | Limit     | Units |          | Extracted  | Analyzed   |                     |
| Lead (GFAA,WET) | 5.5     | NI2   | 0.010     | mg/L  | EPA 7421 | 06/28/1996 | 07/02/1996 | 294                 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blymyer Engineers, Inc  
Client Acct: 49500  
NET Job No: 96.01974

Date: 07/05/1996  
ELAP Cert: 1386  
Page: 3

Ref: Runnels Industry/Job No. 96004

SAMPLE DESCRIPTION: B5-1/2  
Date Taken: 06/07/1996  
Time Taken: 13:45  
NET Sample No: 265565

| Parameter           | Results | Flags | Reporting |       |          | Date       | Date       | Run   |
|---------------------|---------|-------|-----------|-------|----------|------------|------------|-------|
|                     |         |       | Limit     | Units | Method   | Extracted  | Analyzed   | Batch |
| METHOD 6010 (WET)   | --      |       |           |       |          |            | 07/03/1996 | 160   |
| Chromium (ICP, WET) | 31      |       | 0.10      | mg/L  | EPA 6010 | 06/28/1996 | 07/03/1996 | 426   |
| Lead (GFAA, WET)    | 43      |       | 0.010     | mg/L  | EPA 7421 | 06/28/1996 | 07/02/1996 | 294   |
| Zinc (ICP, WET)     | 690     |       | 0.50      | mg/L  | EPA 6010 | 06/28/1996 | 07/03/1996 | 452   |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter |             | CCV        | CCV      | Flags  | Units | Date       | Analyst  | Run    |
|-----------|-------------|------------|----------|--------|-------|------------|----------|--------|
|           |             | Standard   | Standard |        |       |            |          |        |
|           |             | % Recovery | Amount   | Amount |       | Analyzed   | Initials | Number |
| Chromium  | (ICP, WET)  | 101.5      | 1.015    | 1.00   | mg/L  | 07/03/1996 | jeo      | 426    |
| Lead      | (GFAA, WET) | 104.4      | 0.02610  | 0.0250 | mg/L  | 07/02/1996 | djm      | 294    |
| Zinc      | (ICP, WET)  | 98.6       | 0.9856   | 1.00   | mg/L  | 07/03/1996 | jeo      | 452    |

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## METHOD BLANK REPORT

| Parameter | Method<br>Blank | Amount | Reporting | Flags | Units | Date       | Analyst  | Run             |
|-----------|-----------------|--------|-----------|-------|-------|------------|----------|-----------------|
|           |                 | Found  | Limit     |       |       | Analyzed   | Initials | Batch<br>Number |
| Chromium  | (ICP, WET)      | ND     | 0.10      |       | mg/L  | 07/03/1996 | jeo      | 426             |
| Lead      | (GFAA, WET)     | ND     | 0.010     |       | mg/L  | 07/02/1996 | djm      | 294             |
| Zinc      | (ICP, WET)      | ND     | 0.50      |       | mg/L  | 07/03/1996 | jeo      | 452             |

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## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter   |             | Matrix Spike |        |      |              | Sample Conc. | Matrix Spike Dup. |       |       | Flags | Units      | Date Analyzed | Run Batch | Sample Spiked |
|-------------|-------------|--------------|--------|------|--------------|--------------|-------------------|-------|-------|-------|------------|---------------|-----------|---------------|
|             |             | % Rec.       | % Rec. | RPD  | Spike Amount |              | Conc.             | Conc. | Conc. |       |            |               |           |               |
| METHOD 6010 | (WET)       |              |        |      |              | --           |                   |       |       |       | 07/03/1996 | 160           | 265565    |               |
| Chromium    | (ICP, WET)  | 89.1         | 93.6   | 4.9  | 5.00         | 31           | 35.454            | 35.68 |       | mg/L  | 07/03/1996 | 426           | 265565    |               |
| Lead        | (GFAA, WET) | 156.0        | 220.0  | 34.0 | 0.125        | 5.5          | 5.695             | 5.775 | NI2   | mg/L  | 07/02/1996 | 294           | 265564    |               |
| Zinc        | (ICP, WET)  | -164.0       | -294.0 | 56.8 | 5.00         | 690          | 681.8             | 675.3 | NI2   | mg/L  | 07/03/1996 | 452           | 265565    |               |

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## LABORATORY CONTROL SAMPLE REPORT

| Parameter |             | DUP           |               | DUP                    |                        |                       | Flags | Units      | Date Analyzed | Analyst Initials | Run Batch |
|-----------|-------------|---------------|---------------|------------------------|------------------------|-----------------------|-------|------------|---------------|------------------|-----------|
|           |             | LCS<br>% Rec. | LCS<br>% Rec. | LCS<br>Amount<br>Found | LCS<br>Amount<br>Found | LCS<br>Amount<br>Exp. |       |            |               |                  |           |
| Chromium  | (ICP, WET)  | 100.8         |               | 5.041                  | 5.00                   |                       | mg/L  | 07/03/1996 | jeo           | 426              |           |
| Lead      | (GFAA, WET) | 79.9          |               | 0.09985                | 0.125                  |                       | mg/L  | 07/02/1996 | djm           | 294              |           |
| Zinc      | (ICP, WET)  | 99.0          |               | 4.949                  | 5.00                   |                       | mg/L  | 07/03/1996 | jeo           | 452              |           |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

## KEY TO RESULT FLAGS

- \* : RPD between sample duplicates exceeds 30%.
- \*M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HT : Analysis performed outside of the method specified holding time.
- HTC : Confirmation analyzed outside of the method specified holding time.
- HTP : Prep procedure performed outside of the method specified holding time.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA\* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- UMDL : Undetected at the Method Detection Limit.