

Introduction

Delphi Energy & Engine of General Motors Corporation of Rochester, New York contracted Free-Col Laboratories, LTD., Meadville, Pennsylvania, to conduct groundwater monitoring well sampling and analysis for their Lexington Avenue plant.

All samples were collected and transported to the laboratory by Dick Valesky and William Slater of Free-Col Laboratories. Sampling was conducted on August 11th, 1998. Enclosed within is the report of the August 1998 sampling event.

Pre-Sampling Activities

Well Maintenance Check

Prior to the sampling event, a routine inspection of the condition of the protective casing and surface seal was performed. The protective casing was inspected for the integrity of the locking cap and the surface seal. In addition, each well was checked for any other signs of damage or inadvertent entry. Observations of any irregularities were noted in the field logbook as well as the number, date and time.

Static Water Level Measurements

The depth to groundwater was measured with an electronic depth-indicating sounder. An ORS 1068 Oil-Water Interface Probe was used for static water level measurements. Hydrocarbon phases (LNAPLs) were measured and recorded in the field book. The probe was lowered into the well until the meter indicated that product or water was reached. The probe was slowly lowered again until water was indicated. The cable was held against the side of the outer protective casing and a depth reading was taken. This procedure was followed three times or until a consistent value was obtained. The value was recorded to the nearest 0.01 foot in a field notebook. The probe was raised to the surface and together with the amount of cable that was wetted in the well, was decontaminated with a hexane wipe followed by a distilled/deionized water rinse.

Before leaving the well location, the volume of water in the well and the volume of the water required to purge three well volumes was calculated and entered into the field logbook (see Table I, Field Data).

Well Evacuation

All wells were purged using a dedicated or disposable bailer. The bailer was attached to a nylon line and the well was bailed until 3 well volumes were removed from the well or until the well was bailed dry.

Groundwater quality samples were obtained after evacuation of the well. Samples for volatile organic compounds were sampled within three hours of well evacuation if sufficient volume was present.

A nylon line was attached to a dedicated translucent teflon bailer equipped with a bottom check ball. The bailer was lowered to the middle of the open interval of the well or, if little water was in the well, to within one foot of the bottom of the well and slowly lifted to the surface. The appropriate sample vials were filled slowly to avoid sample aeration and field parameter tests were conducted. Used bailers were placed in clean plastic bags for transport to the waste treatment plant for decontamination. The disposable bailers were disposed of after each sampling event.

Field Measurements

A portion of the groundwater collected during the sampling procedure was subjected to the field tests of temperature, specific electrical conductance, and pH. Tests for field parameters were conducted after the sample vials had been filled. Groundwater for these tests was collected in a 500 mL polypropylene container.

Temperature was taken first and measured with an Orion probe and the value recorded in the field log book. The meter was decontaminated between samples with a deionized water rinse and placed in a field carrying case for transport to other sampling locations.

The specific electrical conductance was measured using a conductivity meter. The sample was placed in the meter, readings were taken and then recorded in the field log book. The meter was decontaminated between samples with a deionized water rinse and placed in a field carrying case.

The pH was measured with a pH meter that is lab calibrated to standards with pH values of 4.0, 7.0, and 10.0. The clean probe was inserted into the sample container, the reading recorded in the field log book to the nearest 0.1 pH unit and the probe rinsed with deionized water and inserted into its carrying case.

The probe was calibrated prior to sampling events. Calibration was conducted according to manufacturer's specifications.

Calibration for the pH meter and conductivity meter appear on Table III.

Equipment Decontamination

All of the sampling equipment (excluding the thermometer, pH and conductivity meters) were decontaminated between sampling events using the following procedure:

1. An initial Alconox or equivalent detergent wash.
2. Clean water rinse.
3. Methanol/hexane rinse.
4. Distilled/deionized water rinse.
5. Air dry.

Decontamination wastewaters were containerized in 55 gallon drums to be disposed through discharge through the facility Wastewater Treatment Plant.

Duplicate Samples

Duplicate samples were collected at the same time and location as field samples and collected at frequency of one per matrix/method per day. The samples will be used to assess precision including variability caused by the laboratory analysis and the sample collection procedure. Duplicates were collected in immediate succession using identical sampling techniques, sample storage, transportation, and analysis. Duplicates were evenly split from the same bailer load and equally proportioned into each receptacle for the split duplicate.

Sampling Notes

All sampling at Delphi Energy & Engine, Lexington Ave., was conducted on August 11th, 1998.

A total of 12 wells were sampled for groundwater or LNAPL presence. Eight wells were purged and sampled for groundwater. Four wells contained a floating product layer, and only the floating layer was sampled and analyzed. All other wells that were on the map at Delphi Energy & Engine were measured for static water levels and presence of LNAPL layers. These measurements are shown on Table I.

All field data, purge data, and sampling data can be found in Tables I-III, and copies of the original field logs will be furnished upon request.

TABLE I
DELPHI ENERGY & ENGINE
FIELD DATA
11-Aug-98

| LOCATION | TIME | DEPTH TO WATER (FT) | DEPTH TO BOTTOM OF WELL (FT) | WELL VOLUME (GAL) | FIELD REMARKS |
|----------|-------|---------------------|------------------------------|-------------------|-----------------|
| SR-233 | 10:40 | 10.90 | 20.30 | 1.6 | LOCK BROKEN |
| SR-234 | 11:25 | 14.56 | 17.65 | 0.5 | |
| R-234 | 11:30 | 27.36 | 38.90 | 7.6 | |
| SR-235 | 12:35 | 13.40 | 17.55 | 0.7 | |
| SR-236 | 15:48 | 9.10 | 18.47 | 1.5 | |
| PZ-120 | 15:46 | 5.35 | 11.97 | 1.1 | |
| R-237 | 15:03 | 25.90 | 37.45 | 7.5 | |
| SR-2 | 13:25 | 10.14 | 21.33 | 1.8 | |
| R-235 | 12:40 | 31.22 | | | LNAPL AT 30.59' |
| R-236 | 16:00 | 31.05 | | | LNAPL AT 25.72' |
| R-238 | 14:45 | 23.72 | | | LNAPL AT 23.17' |
| R-2 | 13:27 | 29.85 | | | LNAPL AT 29.20' |

TABLE 1 (CONT'D)
DELPHI ENERGY & ENGINE
FIELD DATA
8/11/98

| LOCATION | DEPTH TO WATER (FT) | DEPTH TO LNAPL (FT) | FIELD REMARKS |
|----------|---------------------|---------------------|-----------------|
| SR-8 | 19.02 | | |
| R-8 | 22.83 | | |
| DR-108 | 93.53 | | |
| SR-132 | 19.68 | | |
| R-132 | 34.32 | | WELL CAP BROKEN |
| PZ-132 | 11.98 | 11.90 | |
| PZ-119 | 8.65 | | |
| PZ-117 | 7.40 | | |
| PZ-139 | 29.41 | 29.11 | |
| PZ-112 | 13.52 | UNMEASURABLE | THIN OIL LAYER |
| PZ-111 | 14.02 | | |
| PZ-113 | 11.03 | | |
| PZ-115 | 12.59 | | |
| PZ-127 | 7.45 | | |
| PZ-128 | 7.36 | | |
| PZ-1 | 11.10 | 7.30 | |
| PZ-121 | 9.52 | 7.95 | |
| PZ-122 | 6.07 | 5.97 | |
| RW-3 | 7.70 | UNMEASURABLE | THIN OIL LAYER |
| PZ-114 | 7.83 | | |
| PZ-125 | 8.62 | | |
| PZ-116 | 9.61 | | |
| PZ-123 | 11.92 | 10.61 | |
| RW-2 | 9.17 | 8.62 | |
| RW-101 | 10.60 | UNMEASURABLE | THIN OIL LAYER |
| PZ-118 | 7.10 | | |
| PZ-124 | 6.50 | 4.51 | |
| PZ-126 | 14.11 | | |
| SR-11 | 21.15 | | |
| R-11 | 28.61 | | |
| DR-11 | 50.52 | | |

TABLE II
DELPHI ENERGY & ENGINE
PURGE DATA
8/11/98

| LOCATION | START TIME | GALLONS PURGED | END TIME | WATER LEVEL AT END (FT) | APPEARANCE |
|----------|------------|----------------|----------|----------------------------|--------------------|
| SR-233 | 10:45 | 5.0 | 10:55 | 10.85 | RUSTY, VERY TURBID |
| SR-234 | 11:40 | 1.5 | 11:45 | 16.44 | CLEAR |
| R-234 | 11:40 | 24 | 12:23 | 28.05 | MODERATELY TURBID |
| SR-235 | 12:45 | 2.1 | 12:55 | 15.40 | RUSTY, VERY TURBID |
| SR-236 | 16:05 | 4.5 | 16:15 | 17.40 | VERY TURBID, SILTY |
| PZ-120 | 16:05 | 3.5 | 16:12 | 5.60 | MODERATELY TURBID |
| R-237 | 15:10 | 23 | 15:25 | 26.60 | VERY TURBID |
| SR-2 | 13:30 | 5.5 | 13:40 | 16.59 | CLEAR |

TABLE III
DELPHI ENERGY & ENGINE
SAMPLING DATA
11-Aug-98

| LOCATION | TIME | WATER LEVEL (FT) | APPEARANCE | TEMP (C) | pH | SPECIFIC CONDUCTANCE (μ MHOS) |
|-----------------|-------|---------------------|-----------------|----------|-----|------------------------------------|
| SR-233 | 11:00 | 10.85 | RUSTY | 21 | 6.9 | 2000 |
| SR-234 | 11:55 | 16.44 | CLEAR | 18 | 6.9 | 5600 |
| R-234 | 12:25 | 28.05 | SLIGHTLY TURBID | 16 | 7.4 | 860 |
| SR-235 | 13:00 | 15.40 | CLEAR | 20 | 7.0 | 10500 |
| SR-236 | 16:20 | 17.40 | CLEAR | 20 | 7.1 | 5580 |
| PZ-120 | 16:15 | 5.60 | SLIGHTLY TURBID | 25 | 6.9 | 4300 |
| R-237 | 15:25 | 26.60 | SLIGHTLY TURBID | 17 | 7.1 | 3420 |
| R-237 DUPLICATE | 15:25 | 26.60 | SLIGHTLY TURBID | 17 | 7.1 | 3500 |
| SR-2 | 13:40 | 16.59 | CLEAR | 18 | 6.9 | 4050 |
| R-235 LNAPL | 13:00 | | | | | |
| R-235 LNAPL DUP | 13:00 | | | | | |
| R-236 LNAPL | 16:30 | | | | | |
| R-238 LNAPL | 14:50 | | | | | |
| R-2 LNAPL | 13:45 | | | | | |

CALIBRATION DATA:

| PARAMETER | ACTUAL | OBSERVED |
|------------------------------------|--------|----------|
| pH | 4.0 | 4.0 |
| pH | 7.0 | 7.0 |
| pH | 10.0 | 9.9 |
| SPECIFIC CONDUCTANCE (μ MHOS) | 147 | 147 |

FREE-COL LABORATORIES, LTD.

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FAX: Area Code 814/333-1468

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

**DELPHI ENERGY & ENGINE
GENERAL MOTORS CORPORATION**

MONITORING WELLS

SAMPLE DATES: 08/11/98

METHODS

PARAMETER

Temperature (Field)

pH (Field)

Specific Conductance

Volatile Compounds

PCB

METHOD

Direct

Field Meter

Conductivity Meter

8260B

2

8082

2

SOURCE

2 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Update III, December, 1996.



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08/27/98

TO:

DELPHI ENERGY & ENGINE
ATTN: MR. RICK EISENMAN
P.O. BOX 92700
ROCHESTER

NY 14606

P.O. # RPB00833

ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

PAGE 1

| SAMPLE ID | : | SR-233 08/11/98 | SR-234 08/11/98 | R-234 08/11/98 | SR-235 08/11/98 |
|-----------|----------------|--------------------|--------------------|-------------------|--------------------|
| PARAMETER | LAB ID | 80812408 | 80812409 | 80812410 | 80812411 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

| | | | | |
|------------------------------|-------|-------|-----|--------|
| TEMPERATURE (FIELD) °C | 21 | 18 | 16 | 20 |
| PH (FIELD) | 6.9 | 6.9 | 7.4 | 7.0 |
| SPEC. COND. (FIELD) UMHOS/CM | 2,000 | 5,600 | 860 | 10,500 |

Please reference the following page(s) for date and analyst.

A.I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552

NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C

U.S. Office of Surface Mining Approved Facility
Ohio Dept. of Health Approved Environmental
Lead Laboratory No. 10016

KEY:

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>=GREATER THAN

w.f.=WILL FOLLOW

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ANALYTICAL REPORT FORM

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| | | | | | |
|---------------------|----------------|------------------|-------------------|-----------------------|--------------------|
| SAMPLE ID | : | SR-2 08/11/98 | R-237 08/11/98 | R-237 DUP 08/11/98 | PZ-120 08/11/98 |
| PARAMETER | LAB ID | 80812412 | 80812413 | 80812414 | 80812415 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |
| TEMPERATURE (FIELD) | °C | 18 | 17 | 17 | 25 |
| PH (FIELD) | | 6.9 | 7.1 | 7.1 | 6.9 |
| SPEC. COND. (FIELD) | UMHOS/CM | 4,050 | 3,420 | 3,500 | 4,300 |

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ANALYTICAL REPORT FORM

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SAMPLE ID : SR-236
08/11/98

LAB ID 80812416
DATE RECEIVED: 08/12/98

| PARAMETER | RESULTS | UNITS | DATE AND | ANALYST |
|------------------------------|---------|-----------|----------|--------------------|
| Temperature (Field) | 20 | DEGREES C | 08/11/98 | SLATER/ VALESKY |
| pH (FIELD) | 7.1 | | 08/11/98 | SLATER/ VALESKY |
| Specific Conductance (Field) | 5,580 | UMHOS/CM | 08/11/98 | SLATER/ VALESKY |

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ANALYTICAL REPORT FORM

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| | SAMPLE ID | SR-233 08/11/98 | SR-234 08/11/98 | R-234 08/11/98 | SR-235 08/11/98 |
|-----------|----------------|--------------------|--------------------|-------------------|--------------------|
| PARAMETER | LAB ID | 80812408 | 80812409 | 80812410 | 80812411 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

| VOLATILE COMPOUNDS | UNITS = MG/L | <0.010 | <0.010 | <0.010 | <0.010 |
|----------------------|--------------|--------|--------|--------|--------|
| CHLOROMETHANE | | <0.010 | <0.010 | <0.010 | <0.010 |
| BROMOMETHANE | | <0.010 | <0.010 | <0.010 | <0.010 |
| VINYL CHLORIDE | | <0.010 | <0.010 | 0.60 | <0.010 |
| CHLOROETHANE | | <0.010 | <0.010 | <0.010 | <0.010 |
| METHYLENE CHLORIDE | | <0.005 | <0.005 | <0.005 | <0.005 |
| ACETONE | | <0.10 | <0.10 | <0.10 | <0.10 |
| CARBON DISULFIDE | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,-DICHLOROETHENE | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,-DICHLOROETHANE | | <0.005 | <0.005 | 0.022 | <0.005 |
| 1,2-DICHLORO*** | | 0.014 | <0.005 | 1.0 | <0.005 |
| CHLOROFORM | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLOROETHANE | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2-BUTANONE | | <0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,1-TRICHLOROETHA* | | <0.005 | <0.005 | <0.005 | <0.005 |
| CARBON TETRACHLORIDE | | <0.005 | <0.005 | <0.005 | <0.005 |
| VINYL ACETATE | | <0.050 | <0.050 | <0.050 | <0.050 |
| BROMODICHLOROMETHANE | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,2,2-TETRACHLORO* | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLOROPROPANE | | <0.005 | <0.005 | <0.005 | <0.005 |
| TRANS-1,3-DICHLOROP* | | <0.005 | <0.005 | <0.005 | <0.005 |
| TRICHLOROETHENE | | 0.012 | <0.005 | <0.005 | <0.005 |
| DIBROMOCHLOROMETHANE | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1,1,2-TRICHLOROETHA* | | <0.005 | <0.005 | <0.005 | <0.005 |
| BENZENE | | <0.005 | <0.005 | <0.005 | <0.005 |
| CIS-1,3-DICHLOROPRO* | | <0.005 | <0.005 | <0.005 | <0.005 |

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08/27/98

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NY 14606

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ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

PAGE 5

| SAMPLE ID | : | SR-233 08/11/98 | SR-234 08/11/98 | R-234 08/11/98 | SR-235 08/11/98 |
|-----------|----------------|--------------------|--------------------|-------------------|--------------------|
| PARAMETER | LAB ID | 80812408 | 80812409 | 80812410 | 80812411 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

| | | | | |
|----------------------|--------|--------|--------|--------|
| 2-CHLOR* VINYL ETHER | <0.010 | <0.010 | <0.010 | <0.010 |
| BROMOFORM | <0.005 | <0.005 | <0.005 | <0.005 |
| 2-HEXANONE | <0.050 | <0.050 | <0.050 | <0.050 |
| 4-METHYL-2-PENTANONE | <0.050 | <0.050 | <0.050 | <0.050 |
| TETRACHLOROETHENE | <0.005 | <0.005 | <0.005 | <0.005 |
| TOLUENE | <0.005 | <0.005 | <0.005 | <0.005 |
| CHLOROBENZENE | <0.005 | <0.005 | <0.005 | <0.005 |
| ETHYL BENZENE | <0.005 | <0.005 | <0.005 | <0.005 |
| STYRENE | <0.005 | <0.005 | <0.005 | <0.005 |
| TOTAL XYLEMES | <0.005 | <0.005 | <0.005 | <0.005 |

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ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

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| | | | | |
|-----------|----------------|------------------|-------------------|-----------------------|
| SAMPLE ID | : | SR-2 08/11/98 | R-237 08/11/98 | R-237 DUP 08/11/98 |
| PARAMETER | LAB ID | 80812412 | 80812413 | 80812414 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS

UNITS = MG/L

| | | | |
|----------------------|--------|--------|--------|
| CHLOROMETHANE | <0.010 | <0.010 | <0.010 |
| BROMOMETHANE | <0.010 | <0.010 | <0.010 |
| VINYL CHLORIDE | <0.010 | 31 | 32 |
| CHLOROETHANE | <0.010 | <0.010 | <0.010 |
| METHYLENE CHLORIDE | <0.005 | <0.005 | <0.005 |
| ACETONE | <0.10 | <0.10 | <0.10 |
| CARBON DISULFIDE | <0.005 | <0.005 | <0.005 |
| 1,1,-DICHLOROETHENE | <0.005 | 0.095 | 0.096 |
| 1,1,-DICHLOROETHANE | <0.005 | 0.022 | 0.022 |
| 1,2-DICHLORO*** | <0.005 | 13 | 14 |
| CHLOROFORM | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLOROETHANE | <0.005 | <0.005 | <0.005 |
| 2-BUTANONE | <0.10 | <0.10 | <0.10 |
| 1,1,1-TRICHLOROETHA* | <0.005 | <0.005 | <0.005 |
| CARBON TETRACHLORIDE | <0.005 | <0.005 | <0.005 |
| VINYL ACETATE | <0.050 | <0.050 | <0.050 |
| BROMODICHLOROMETHANE | <0.005 | <0.005 | <0.005 |
| 1,1,2,2-TETRACHLORO* | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLOROPROPANE | <0.005 | <0.005 | <0.005 |
| TRANS-1,3-DICHLOROP* | <0.005 | <0.005 | <0.005 |
| TRICHLOROETHENE | <0.005 | <0.005 | <0.005 |
| DIBROMOCHLOROMETHANE | <0.005 | <0.005 | <0.005 |
| 1,1,2-TRICHLOROETHA* | <0.005 | <0.005 | <0.005 |
| BENZENE | <0.005 | <0.005 | <0.005 |
| CIS-1,3-DICHLOROPRO* | <0.005 | <0.005 | <0.005 |

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 Dept. of Health Laboratory I.D. No. 10552

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 ND Dept. of Health Cert. No. R-083
 MD Dept. of Health Cert. No. 130
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EMAIL: freecol@toolcity.net

08/27/98

TO:

DELPHI ENERGY & ENGINE
ATTN: MR. RICK EISENMAN
P.O. BOX 92700
ROCHESTER

NY 14606

P.O. # RPB00833

ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

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| | | | | |
|-----------|----------------|------------------|-------------------|-----------------------|
| SAMPLE ID | : | SR-2 08/11/98 | R-237 08/11/98 | R-237 DUP 08/11/98 |
| PARAMETER | LAB ID | 80812412 | 80812413 | 80812414 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

| | | | |
|----------------------|--------|--------|--------|
| 2-CHLOR* VINYL ETHER | <0.010 | <0.010 | <0.010 |
| BROMOFORM | <0.005 | <0.005 | <0.005 |
| 2-HEXANONE | <0.050 | <0.050 | <0.050 |
| 4-METHYL-2-PENTANONE | <0.050 | <0.050 | <0.050 |
| TETRACHLOROETHENE | <0.005 | <0.005 | <0.005 |
| TOLUENE | <0.005 | 0.010 | 0.009 |
| CHLOROBENZENE | <0.005 | <0.005 | <0.005 |
| ETHYL BENZENE | <0.005 | <0.005 | <0.005 |
| STYRENE | <0.005 | <0.005 | <0.005 |
| TOTAL XYLEMES | <0.005 | 0.011 | 0.010 |

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ANALYTICAL REPORT FORM

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| | | | | |
|-----------|----------------|--------------------|--------------------|------------------------|
| SAMPLE ID | : | PZ-120 08/11/98 | SR-236 08/11/98 | TRIP BLANK 08/11/98 |
| PARAMETER | LAB ID | 80812415 | 80812416 | 80812422 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS

UNITS = MG/L

| | | | |
|----------------------|--------|--------|--------|
| CHLOROMETHANE | <0.010 | <0.010 | <0.010 |
| BROMOMETHANE | <0.010 | <0.010 | <0.010 |
| VINYL CHLORIDE | <0.010 | 0.18 | <0.010 |
| CHLOROETHANE | <0.010 | <0.010 | <0.010 |
| METHYLENE CHLORIDE | <0.005 | <0.005 | <0.005 |
| ACETONE | <0.10 | <0.10 | <0.10 |
| CARBON DISULFIDE | <0.005 | <0.005 | <0.005 |
| 1,1,-DICHLOROETHENE | <0.005 | <0.005 | <0.005 |
| 1,1,-DICHLOROETHANE | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLORO*** | <0.005 | 0.054 | <0.005 |
| CHLOROFORM | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLOROETHANE | <0.005 | <0.005 | <0.005 |
| 2-BUTANONE | <0.10 | <0.10 | <0.10 |
| 1,1,1-TRICHLOROETHA* | <0.005 | <0.005 | <0.005 |
| CARBON TETRACHLORIDE | <0.005 | <0.005 | <0.005 |
| VINYL ACETATE | <0.050 | <0.050 | <0.050 |
| BROMODICHLOROMETHANE | <0.005 | <0.005 | <0.005 |
| 1,1,2,2-TETRACHLORO* | <0.005 | <0.005 | <0.005 |
| 1,2-DICHLOROPROPANE | <0.005 | <0.005 | <0.005 |
| TRANS-1,3-DICHLOROP* | <0.005 | <0.005 | <0.005 |
| TRICHLOROETHENE | <0.005 | <0.005 | <0.005 |
| DIBROMOCHLOROMETHANE | <0.005 | <0.005 | <0.005 |
| 1,1,2-TRICHLOROETHA* | <0.005 | <0.005 | <0.005 |
| BENZENE | 0.54 | 1.0 | <0.005 |
| CIS-1,3-DICHLOROPRO* | <0.005 | <0.005 | <0.005 |

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ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

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| | | | | |
|-----------|----------------|--------------------|--------------------|------------------------|
| SAMPLE ID | : | PZ-120 08/11/98 | SR-236 08/11/98 | TRIP BLANK 08/11/98 |
| PARAMETER | LAB ID | 80812415 | 80812416 | 80812422 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

| | | | |
|----------------------|--------|--------|--------|
| 2-CHLOR* VINYL ETHER | <0.010 | <0.010 | <0.010 |
| BROMOFORM | <0.005 | <0.005 | <0.005 |
| 2-HEXANONE | <0.050 | <0.050 | <0.050 |
| 4-METHYL-2-PENTANONE | <0.050 | <0.050 | <0.050 |
| TETRACHLOROETHENE | <0.005 | <0.005 | <0.005 |
| TOLUENE | <0.005 | <0.005 | <0.005 |
| CHLOROBENZENE | <0.005 | <0.005 | <0.005 |
| ETHYL BENZENE | <0.005 | <0.005 | <0.005 |
| STYRENE | <0.005 | <0.005 | <0.005 |
| TOTAL XYLENES | <0.005 | <0.005 | <0.005 |

DATE AND ANALYST

08/20/98 ECKLUND

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ANALYTICAL REPORT FORM

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| PARAMETER | SAMPLE ID | R-235 | R-235 | R-2 LNAPL | R-238 |
|-----------|----------------|----------|-----------|-----------|----------|
| | LAB ID | LNAPL | LNAPL-DUP | 08/11/98 | LNAPL |
| | | 08/11/98 | 08/11/98 | | 08/11/98 |
| | 80812417 | 80812418 | 80812419 | 80812420 | |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS

UNITS = MG/KG

| | | | | |
|----------------------|--------|--------|--------|--------|
| CHLOROMETHANE | <10 D | <10 D | <10 D | <10 D |
| BROMOMETHANE | <10 D | <10 D | <10 D | <10 D |
| VINYL CHLORIDE | 200 | 210 | <10 D | 28 |
| CHLOROETHANE | <10 D | <10 D | <10 D | <10 D |
| METHYLENE CHLORIDE | <5 D | <5 D | <5 D | <5 D |
| ACETONE | <100 D | <100 D | <100 D | <100 D |
| CARBON DISULFIDE | <5 D | <5 D | <5 D | <5 D |
| 1,1,-DICHLOROETHENE | <5 D | <5 D | <5 D | <5 D |
| 1,1,-DICHLOROETHANE | <5 D | <5 D | <5 D | <5 D |
| 1,2-DICHLORO*** | 1,100 | 1,200 | <5 D | 13 |
| CHLOROFORM | <5 D | <5 D | <5 D | <5 D |
| 1,2-DICHLOROETHANE | <5 D | <5 D | <5 D | <5 D |
| 2-BUTANONE | <100 D | <100 D | <100 D | <100 D |
| 1,1,1-TRICHLOROETHA* | <5 D | <5 D | <5 D | <5 D |
| CARBON TETRACHLORIDE | <5 D | <5 D | <5 D | <5 D |
| VINYL ACETATE | <50 D | <50 D | <50 D | <50 D |
| BROMODICHLOROMETHANE | <5 D | <5 D | <5 D | <5 D |
| 1,1,2,2-TETRACHLORO* | <5 D | <5 D | <5 D | <5 D |
| 1,2-DICHLOROPROPANE | <5 D | <5 D | <5 D | <5 D |
| TRANS-1,3-DICHLOROP* | <5 D | <5 D | <5 D | <5 D |
| TRICHLOROETHENE | <5 D | <5 D | <5 D | <5 D |
| DIBROMOCHLOROMETHANE | <5 D | <5 D | <5 D | <5 D |
| 1,1,2-TRICHLOROETHA* | <5 D | <5 D | <5 D | <5 D |
| BENZENE | <5 D | <5 D | <5 D | <5 D |
| CIS-1,3-DICHLOROPRO* | <5 D | <5 D | <5 D | <5 D |

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08/27/98

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NY 14606

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ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

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| SAMPLE ID | : | R-235 | R-235 | R-2 LNAPL | R-238 |
|-----------|----------------|----------|-----------|-----------|----------|
| | | LNAPL | LNAPL-DUP | 08/11/98 | LNAPL |
| LAB ID | | 08/11/98 | 08/11/98 | | 08/11/98 |
| PARAMETER | DATE RECEIVED: | 80812417 | 80812418 | 80812419 | 80812420 |
| | | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

VOLATILE COMPOUNDS (Cont.) UNITS = MG/KG

| | | | | |
|----------------------|-------|-------|-------|-------|
| 2-CHLOR* VINYL ETHER | <10 D | <10 D | <10 D | <10 D |
| BROMOFORM | <5 D | <5 D | <5 D | <5 D |
| 2-HEXANONE | <50 D | <50 D | <50 D | <50 D |
| 4-METHYL-2-PENTANONE | <50 D | <50 D | <50 D | <50 D |
| TETRACHLOROETHENE | <5 D | <5 D | <5 D | <5 D |
| TOLUENE | 30 | 28 | <5 D | <5 D |
| CHLOROBENZENE | <5 D | <5 D | <5 D | <5 D |
| ETHYL BENZENE | <5 D | <5 D | <5 D | 5 |
| STYRENE | <5 D | <5 D | <5 D | <5 D |
| TOTAL XYLEMES | 7 | 7 | <5 D | 27 |

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ANALYTICAL REPORT FORM

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SAMPLE ID : R-236
LNAPL
08/11/98
LAB ID 80812421
DATE RECEIVED: 08/12/98

| PARAMETER | RESULTS | UNITS | DATE AND ANALYST |
|--------------------------------|---------|-------|------------------|
| <u>VOLATILE COMPOUNDS</u> | | | |
| Chloromethane | <10 D | MG/KG | 08/24/98 ECKLUND |
| Bromomethane | <10 D | | |
| Vinyl Chloride | 560 | | |
| Chloroethane | <10 D | | |
| Methylene Chloride | <5 D | | |
| Acetone | <100 D | | |
| Carbon Disulfide | <5 D | | |
| 1,1-Dichloroethene | <5 D | | |
| 1,1-Dichloroethane | <5 D | | |
| 1,2-Dichloroethenes (Total)*** | 300 | | |
| Chloroform | <5 D | | |
| 1,2-Dichloroethane | <5 D | | |
| 2-Butanone | <100 D | | |
| 1,1,1-Trichloroethane | <5 D | | |
| Carbon Tetrachloride | <5 D | | |
| Vinyl Acetate | <50 D | | |
| Bromodichloromethane | <5 D | | |
| 1,1,2,2-Tetrachloroethane | <5 D | | |
| 1,2-Dichloropropane | <5 D | | |
| trans-1,3-Dichloropropene | <5 D | | |
| Trichloroethene | <5 D | | |
| Dibromochloromethane | <5 D | | |
| 1,1,2-Trichloroethane | <5 D | | |

*** The result supplied here is the sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene.



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P.O. # RPB00833

ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

PAGE 13

SAMPLE ID : R-236
LNAPL
08/11/98
LAB ID 80812421
DATE RECEIVED: 08/12/98

| PARAMETER | RESULTS | UNITS | DATE | AND | ANALYST |
|--|---------|-------|----------|---------|---------|
| <u>VOLATILE COMPOUNDS</u> Continued | | | | | |
| Benzene | <5 D | MG/KG | 08/24/98 | ECKLUND | |
| cis-1,3-Dichloropropene | <5 D | | | | |
| 2-Chloroethylvinyl ether | <10 D | | | | |
| Bromoform | <5 D | | | | |
| 2-Hexanone | <50 D | | | | |
| 4-Methyl-2-pentanone | <50 D | | | | |
| Tetrachloroethene | <5 D | | | | |
| Toluene | 22 | | | | |
| Chlorobenzene | <5 D | | | | |
| Ethylbenzene | <5 D | | | | |
| Styrene | <5 D | | | | |
| Total Xylenes | <5 D | | | | |

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ANALYTICAL REPORT FORM

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| | SAMPLE ID | SR-233 08/11/98 | SR-234 08/11/98 | R-234 08/11/98 | SR-235 08/11/98 |
|-----------|----------------|--------------------|--------------------|-------------------|--------------------|
| PARAMETER | LAB ID | 80812408 | 80812409 | 80812410 | 80812411 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

PCB**UNITS = MG/L**

| | | | | |
|----------|--------|--------|--------|--------|
| PCB-1242 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1254 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1221 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1232 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1248 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1260 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1016 | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1262 | <0.001 | <0.001 | <0.001 | <0.001 |

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ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

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| SAMPLE ID | : | SR-2 08/11/98 | R-237 08/11/98 | R-237 DUP 08/11/98 | PZ-120 08/11/98 |
|-----------|----------------|------------------|-------------------|-----------------------|--------------------|
| PARAMETER | LAB ID | 80812412 | 80812413 | 80812414 | 80812415 |
| | DATE RECEIVED: | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

| PCB | UNITS = MG/L | <0.001 | <0.001 | <0.001 | <0.001 |
|----------|--------------|--------|--------|--------|--------|
| PCB-1242 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1254 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1221 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1232 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1248 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1260 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1016 | | <0.001 | <0.001 | <0.001 | <0.001 |
| PCB-1262 | | <0.001 | <0.001 | <0.001 | <0.001 |

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PHONE: (814) 724-6242
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EMAIL: freecol@toolcity.net

08/27/98

TO:

DELPHI ENERGY & ENGINE
ATTN: MR. RICK EISENMAN
P.O. BOX 92700
ROCHESTER NY 14606

P.O. # RPB00833

ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

PAGE 16

SAMPLE ID : SR-236
08/11/98

LAB ID 80812416
DATE RECEIVED: 08/12/98

| PARAMETER | RESULTS | UNITS | DATE AND ANALYST |
|------------|---------|-------|--------------------|
| PCB | | | |
| PCB-1242 | <0.001 | MG/L | 08/17/98 WILLIAMS/ |
| PCB-1254 | <0.001 | | HENRY |
| PCB-1221 | <0.001 | | |
| PCB-1232 | <0.001 | | |
| PCB-1248 | <0.001 | | |
| PCB-1260 | <0.001 | | |
| PCB-1016 | <0.001 | | |
| PCB-1262 | <0.001 | | |

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: freecol@toolcity.net

08/27/98

TO:

DELPHI ENERGY & ENGINE
ATTN: MR. RICK EISENMAN
P.O. BOX 92700
ROCHESTER

NY 14606

P.O. # RPB00833

ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

PAGE 17

| PARAMETER | SAMPLE ID | R-235 | R-235 | R-2 LNAPL | R-238 |
|-----------|----------------|----------|-----------|-----------|----------|
| | LAB ID | LNAPL | LNAPL-DUP | 08/11/98 | LNAPL |
| | | 08/11/98 | 08/11/98 | 08/11/98 | 08/11/98 |
| | DATE RECEIVED: | 80812417 | 80812418 | 80812419 | 80812420 |
| | | 08/12/98 | 08/12/98 | 08/12/98 | 08/12/98 |

PCB

UNITS = MG/KG

| | | | | |
|-----------------|------|------|------|------|
| PCB IN OIL-1221 | <2 D | <2 D | <2 D | <4 D |
| PCB IN OIL-1232 | <2 D | <2 D | <2 D | <4 D |
| PCB IN OIL-1248 | <2 D | <2 D | 120 | <4 D |
| PCB IN OIL-1260 | <2 D | <2 D | <2 D | <4 D |
| PCB IN OIL-1016 | <2 D | <2 D | <2 D | <4 D |
| PCB IN OIL-1242 | <2 D | <2 D | <2 D | <4 D |
| PCB IN OIL-1254 | <2 D | <2 D | <2 D | <4 D |
| PCB IN OIL-1262 | <2 D | <2 D | <2 D | <4 D |

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, LTD.

P.O. BOX 557, 11618 COTTON ROAD
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08/27/98

TO:

DELPHI ENERGY & ENGINE
ATTN: MR. RICK EISENMAN
P.O. BOX 92700
ROCHESTER

NY 14606

P.O. # RPB00833

ACCOUNT NO. 01267

ANALYTICAL REPORT FORM

PAGE 18

SAMPLE ID : R-236
LNAPL
08/11/98
LAB ID 80812421
DATE RECEIVED: 08/12/98

| PARAMETER | RESULTS | UNITS | DATE | AND | ANALYST |
|-----------------|---------|-------|----------|----------|---------|
| PCB | | | | | |
| PCB in oil-1221 | <2 D | MG/KG | 08/17/98 | HENRY/ | |
| PCB in oil-1232 | <2 D | | | WILLIAMS | |
| PCB in oil-1248 | <2 D | | | | |
| PCB in oil-1260 | <2 D | | | | |
| PCB in oil-1016 | <2 D | | | | |
| PCB in oil-1242 | <2 D | | | | |
| PCB in oil-1254 | <2 D | | | | |
| PCB in oil-1262 | <2 D | | | | |


John Paraske
QUALITY ASSURANCE SUPERVISOR

pc: Mr. Tom Wells, H & A

A.C.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552

NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C

U.S. Office of Surface Mining Approved Facility
Ohio Dept. of Health Approved Environmental
Lead Laboratory No. 10016

KEY:

<=LESS THAN

>=GREATER THAN

w.f.=WILL FOLLOW

FREE-COL LABORATORIES, LTD.
P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

CODE KEYS FOR ANALYTICAL REPORT FORMS

Results expressed as MG/KG or % are calculated on a received weight basis, with two exceptions: % volatile solids and % fixed solids (% ash) are expressed on a dry weight basis.

- CODE B:** This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.
- CODE D:** Detection limit change due to a dilution.
- CODE R:** The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%.
- CODE S:** This result was obtained by Method of Standard Additions.
- CODE NA:** Not Applicable
- CODE ND:** Not Detectable
- PRC:** Preparation Reference Control
- VOID:** The sample plus spike concentration exceeded the linear range of the standard curve.
- CODE Q:** Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%.
- WF:** Will Follow
- CODE J:** This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit but greater than zero.

FREE-COL LABORATORIES, LTD.

P.O. Box 557, 11618 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
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ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

| | |
|-----------------------------------|---------------------------|
| Chloromethane | Bromodichloromethane |
| Bromomethane | 1,1,2,2-Tetrachloroethane |
| Vinyl Chloride | 1,2-Dichloropropane |
| Chloroethane | trans-1,3-Dichloropropene |
| Methylene Chloride | Trichloroethene |
| Acetone | Dibromochloromethane |
| Carbon Disulfide | 1,1,2-Trichloroethane |
| 1,1-Dichloroethene | Benzene |
| 1,1-Dichloroethane | cis-1,3-Dichloropropene |
| 1,2-Dichloroethylenes (Total) *** | 2-Chloroethyl Vinyl Ether |
| Chloroform | Bromoform |
| 1,2-Dichloroethane | 2-Hexanone |
| 2-Butanone | 4-Methyl-2-pentanone |
| 1,1,1-Trichloroethane | Tetrachloroethene |
| Carbon Tetrachloride | Toluene |
| Vinyl Acetate | Chlorobenzene |
| Ethyl Benzene | |
| Styrene | |
| Total Xylenes | |

***The result supplied here is the sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene.

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QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

| <u>Delphi Energy & Engine Sample Identification</u> | <u>Free-Col ID</u> |
|---|--------------------|
| SR-233 08/11/98 | 80812408 |
| SR-234 08/11/98 | 80812409 |
| R-234 08/11/98 | 80812410 |
| SR-235 08/11/98 | 80812411 |
| SR-2 08/11/98 | 80812412 |
| R-237 08/11/98 | 80812413 |
| R-237 DUP 08/11/98 | 80812414 |
| PZ-120 08/11/98 | 80812415 |
| SR-236 08/11/98 | 80812416 |
| R-235 LNAPL 08/11/98 | 80812417 |
| R-235 LNAPL-DUP 08/11/98 | 80812418 |
| R-2 LNAPL 08/11/98 | 80812419 |
| R-238 LNAPL 08/11/98 | 80812420 |
| R-236 LNAPL 08/11/98 | 80812421 |
| TRIP BLANK 08/11/98 | 80812422 |

Special Notes:

1. The results on the analytical report may be given as mg/kg and related control value results may be given on the quality control data sheet as mg/L. The reason for this difference is that many control values are expressed in terms of the final concentration of the solvent or acid extract of a solid waste or oil sample.

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 8/20/98

Analyst Ecklund

Units: * Recovery

Type: W = Low/Medium Water

S = Low/Medium Soil/Sediment

| Limits: | Dibromofluoromethane | Toluene-d ₈ | 4-Bromofluoro- benzene |
|---------------|----------------------|------------------------|---------------------------|
| Water | 86-118 | 88-110 | 86-115 |
| Soil/Sediment | 80-128 | 81-117 | 74-121 |

Type
(S/W) Free-Col I.D.

| | | | |
|------------|-----|-----|-----|
| 808-12-408 | 104 | 101 | 99 |
| 808-12-409 | 100 | 98 | 98 |
| 808-12-410 | 108 | 94 | 96 |
| 808-12-411 | 95 | 97 | 92 |
| 808-12-412 | 110 | 105 | 105 |
| 808-12-413 | 105 | 96 | 99 |
| 808-12-414 | 93 | 93 | 90 |
| 808-12-415 | 106 | 104 | 106 |
| 808-12-416 | 104 | 103 | 103 |
| 808-12-422 | 106 | 102 | 100 |

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 8/20/98 Analyst Ecklund
Samples associated with this blank:

| <u>Parameter</u> | <u>Blank Value</u> |
|---------------------------|--------------------|
| Units = <u>ug/l</u> | |
| Chloromethane | <10 |
| Bromomethane | |
| Vinyl chloride | |
| Chloroethane | |
| Methylene chloride | <5 |
| Acrolein | - |
| Acrylonitrile | - |
| 1,1-Dichloroethene | <5 |
| 1,1-Dichloroethane | |
| trans-1,2-Dichloroethene | |
| Chloroform | |
| 1,2-Dichloroethane | |
| 1,1,1-Trichloroethane | |
| Carbon tetrachloride | |
| Bromodichloromethane | |
| 1,2-Dichloropropane | |
| trans-1,3-Dichloropropene | |
| Trichloroethene | |
| Benzene | |
| Dibromochloromethane | |
| 1,1,2-Trichloroethane | |
| cis-1,3-Dichloropropene | |
| 2-Chloroethyl vinyl ether | <10 <5 |
| Bromoform | |
| Tetrachloroethene | |
| 1,1,2,2-Tetrachloroethane | |
| Toluene | |
| Chlorobenzene | |
| Ethyl benzene | |
| 1,3-Dichlorobenzene | |
| 1,2-Dichlorobenzene | |
| 1,4-Dichlorobenzene | |
| Xylene | |
| 2-Butanone - MEK | <100 |
| 4-Methyl-2-pentanone | <50 |
| Acetone | <100 |
| Syrene | <5 |

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 8/20/98 Analyst Ecklund
Samples associated with this blank:

| <u>Parameter</u> | <u>Blank Value</u> |
|---------------------------|--------------------|
| Units = <u>ug/l</u> | |
| Carbon Disulfide | <5 |
| Vinyl Acetate | <50 |
| 2-Hexanone - MBK | <50 |
| Dichlorofluoromethane | |
| 1,1,1,2-Tetrachloroethane | |
| Trichlorofluoromethane | |
| 1,2,3-Trichloropropane | |
| 3-Chloro-1-propene | |
| 1,2-Dibromoethane | |
| cis,1,2-Dichloroethene | <5 |

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 8/20/98 Analyst Ecklund
Samples associated with this spiked control:

Sample used as spiked control: 808-12-409

| PARAMETER | SPIKE ADDED UG/L | SPIKED RESULT UG/L | SAMPLE RESULT UG/L | ACCEPT. LIMITS % REC. | ASSYD | FILE |
|---------------------------|------------------------|--------------------------|--------------------------|-----------------------------|-------|------|
| Chloromethane | 20 | 21 | <10 | 31-187 | 105 | 520 |
| Bromomethane | 20 | 21 | <10 | 34-207 | 105 | 519 |
| Vinyl chloride | 20 | 23 | <10 | 26-183 | 115 | 528 |
| Chloroethane | 20 | 21 | <10 | 55-168 | 105 | 507 |
| Methylene chloride | 20 | 22 | <5 | 63-151 | 110 | 521 |
| Acrolein | 62 | - | - | 23-183 | - | 500 |
| Acrylonitrile | 58 | - | - | 52-186 | - | 501 |
| 1,1-Dichloroethene | 20 | 21 | <5 | 52-159 | 105 | 513 |
| 1,1-Dichloroethane | 20 | 22 | - | 73-144 | 110 | 511 |
| trans-1,2-Dichloroethene | 20 | 21 | - | 64-151 | 105 | 514 |
| Chloroform | 20 | 23 | - | 68-142 | 115 | 509 |
| 1,2-Dichloroethane | 20 | 22 | - | 54-155 | 110 | 512 |
| 1,1,1-Trichloroethane | 20 | 22 | - | 59-158 | 110 | 525 |
| Carbon tetrachloride | 20 | 19 | - | 39-147 | 95 | 504 |
| Bromodichloromethane | 20 | 22 | - | 47-148 | 110 | 510 |
| 1,2-Dichloropropane | 20 | 22 | - | 67-144 | 110 | 515 |
| trans-1,3-Dichloropropene | 20 | 20 | - | 56-141 | 100 | 517 |
| Trichloroethene | 20 | 22 | - | 64-130 | 110 | 527 |
| Benzene | 20 | 21 | - | 71-142 | 105 | 502 |
| Dibromochloromethane | 20 | 16 | - | 29-155 | 80 | 506 |
| 1,1,2-Trichloroethane | 20 | 20 | - | 61-146 | 100 | 526 |
| cis-1,3-Dichloropropene | 20 | 20 | ↓ | 46-149 | 100 | 516 |
| 2-Chloroethyl vinyl ether | 20 | 20 | <10 | 7-183 | 100 | 508 |
| Bromoform | 20 | 17 | <5 | 10-149 | 85 | 503 |
| Tetrachloroethene | 20 | 17 | - | 50-160 | 85 | 523 |
| 1,1,2,2-Tetrachloroethane | 20 | 21 | - | 44-163 | 105 | 522 |
| Toluene | 20 | 22 | - | 73-130 | 110 | 524 |
| Chlorobenzene | 20 | 22 | - | 72-131 | 110 | 505 |
| Ethyl benzene | 20 | 20 | - | 62-139 | 100 | 518 |
| 1,3-Dichlorobenzene | 26 | 27 | - | 60-161 | 104 | 530 |
| 1,2-Dichlorobenzene | 26 | 28 | - | 45-157 | 104 | 529 |
| 1,4-Dichlorobenzene | 20 | 22 | ↓ | 36-174 | 110 | 531 |
| Diethyl Benzene | 44 | - | - | 71-137 | - | 533 |
| Ethyl Ether | 35 | - | - | 62-160 | - | 532 |
| Xlenes | 44 | 46 | <5 | 72-130 | 104 | 534 |
| MEK | 20 | 16 | <10 | 63-179 | 80 | 536 |

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 8/24/98 Analyst Ecklund
Samples associated with this blank:

| <u>Parameter</u> | <u>Blank Value</u> |
|---------------------------|--------------------|
| Units = <u>mg/l</u> | |
| Chloromethane | <5 |
| Bromomethane | |
| Vinyl chloride | |
| Chloroethane | |
| Methylene chloride | <2 |
| Acrolein | - |
| Acrylonitrile | - |
| 1,1-Dichloroethene | <2 |
| 1,1-Dichloroethane | |
| trans-1,2-Dichloroethene | |
| Chloroform | |
| 1,2-Dichloroethane | |
| 1,1,1-Trichloroethane | |
| Carbon tetrachloride | |
| Bromodichloromethane | |
| 1,2-Dichloropropane | |
| trans-1,3-Dichloropropene | |
| Trichloroethene | |
| Benzene | |
| Dibromochloromethane | |
| 1,1,2-Trichloroethane | |
| cis-1,3-Dichloropropene | |
| 2-Chloroethyl vinyl ether | <5 |
| Bromoform | <2 |
| Tetrachloroethene | |
| 1,1,2,2-Tetrachloroethane | |
| Toluene | |
| Chlorobenzene | |
| Ethyl benzene | |
| 1,3-Dichlorobenzene | |
| 1,2-Dichlorobenzene | |
| 1,4-Dichlorobenzene | |
| Xylene | |
| 2-Butanone - MEK | <10 |
| 4-Methyl-2-pentanone | <10 |
| Acetone | <10 |
| Syrene | <2 |

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 8/24/98 Analyst Ecklund
Samples associated with this blank:

| <u>Parameter</u> | <u>Blank Value</u> |
|---------------------------|--------------------|
| Units = <u>ug/l</u> | |
| Carbon Disulfide | <2 |
| Vinyl Acetate | <10 |
| 2-Hexanone - MBK | <10 |
| Dichlorofluoromethane | |
| 1,1,1,2-Tetrachloroethane | |
| Trichlorofluoromethane | |
| 1,2,3-Trichloropropane | |
| 3-Chloro-1-propene | |
| 1,2-Dibromoethane | |
| cis,1,2-Dichloroethene | <2 |

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 8/24/98 Analyst Ecklund
Samples associated with this repeat control:

Sample used as repeat control: 808-22-008
AD = Absolute Difference RPD = Relative Percent Difference

| <u>Parameter</u> | <u>Samp.</u> | <u>Repeat</u> | <u>Accept</u> | <u>Accept</u> | <u>Assayd</u> | <u>File</u> |
|---------------------------|--------------|---------------|---------------|---------------|---------------|-------------|
| | <u>Value</u> | <u>Value</u> | <u>AD</u> | <u>RPD</u> | <u>AD/RPD</u> | |
| Units = <u>ng/L</u> | | | | | | |
| Chloromethane | <5 | <5 | | | | 820 |
| Bromomethane | | | | | | 819 |
| Vinyl chloride | | | | 27 | | 828 |
| Chloroethane | | | | | | 807 |
| Methylene chloride | <2 | <2 | | 17 | | 821 |
| Acrolein | - | - | | | | 800 |
| Acrylonitrile | - | - | | | | 801 |
| 1,1-Dichloroethene | <2 | <2 | | | | 813 |
| 1,1-Dichloroethane | | | | 41 | | 811 |
| trans-1,2-Dichloroethene | | | | 28 | | 814 |
| Chloroform | | | | 14 | | 809 |
| 1,2-Dichloroethane | | | | | | 812 |
| 1,1,1-Trichloroethane | | | | 27 | | 825 |
| Carbon tetrachloride | | | | | | 804 |
| Bromodichloromethane | | | | 79 | | 810 |
| 1,2-Dichloropropane | | | | | | 815 |
| trans-1,3-Dichloropropene | | | | | | 817 |
| Trichloroethene | | | | 32 | | 827 |
| Benzene | | | | 49 | | 802 |
| Dibromochloromethane | | | | 70 | | 806 |
| 1,1,2-Trichloroethane | | | | | | 826 |
| cis-1,3-Dichloropropene | <5 | <5 | | | | 816 |
| 2-Chloroethyl vinyl ether | <5 | <5 | | | | 808 |
| Bromoform | <2 | <2 | | | | 803 |
| Tetrachloroethene | | | | 33 | | 823 |
| 1,1,2,2-Tetrachloroethane | | | | | | 822 |
| Toluene | | | | 38 | | 824 |
| Chlorobenzene | | | | 24 | | 805 |
| Ethyl benzene | | | | 5 | | 818 |
| 1,3-Dichlorobenzene | | | | | | 830 |
| 1,2-Dichlorobenzene | | | | | | 829 |
| 1,4-Dichlorobenzene | | | | 36 | | 831 |
| Acetone | <10 | <10 | | 26 | | 836 |

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 3/24/98 Analyst Ecklund
Samples associated with this repeat control:

Sample used as repeat control: 808-22-008
AD = Absolute Difference RPD = Relative Percent Difference

| <u>Parameter</u> | <u>Samp.</u> | <u>Repeat</u> | <u>Accept</u> | <u>Accept</u> | <u>Assayd</u> | <u>File</u> |
|---------------------------|--------------|---------------|---------------|---------------|---------------|-------------|
| | <u>Value</u> | <u>Value</u> | <u>AD</u> | <u>RPD</u> | <u>AD/RPD</u> | |
| Units = <u>ug/l</u> | | | | | | |
| 3-Chloro-1-propene | | | | | | |
| Dichlorodifluoromethane | | | | | | |
| Methyl Ethyl Ketone | <10 | <10 | | | 0 | |
| MIBK | <10 | <10 | | | 0 | |
| 1,1,1,2-Tetrachloroethane | | | | | | |
| Trichlorofluoromethane | | | | | | |
| 1,2,3-Trichloropropane | | | | | | |
| 1,2-Dibromomethane | | | | | | |
| Cis-1,2-Dichloroethane | <2 | <2 | | | 0 | |
| Xylene | <2 | <2 | | | 0 | |
| Ethyl Ether | <2 | <2 | | | 0 | |
| MBK | <10 | <10 | | | 0 | |
| CARBON DISULFIDE | <2 | <2 | | | 0 | |
| STYRENE | <2 | <2 | | | 0 | |
| VINYL ACETATE | <10 | <10 | | | 0 | |

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 8/24/97 Analyst Ecklund
Samples associated with this spiked control:

Sample used as spiked control: 808-22-008

| <u>PARAMETER</u> | <u>SPIKE ADDED</u> <u>UG/L</u> | <u>SPIKED RESULT</u> <u>UG/L</u> | <u>SAMPLE RESULT</u> <u>UG/L</u> | <u>ACCEPT. LIMITS</u> <u>% REC.</u> | <u>ASSYD</u> | <u>FILE</u> |
|---------------------------|---------------------------------------|---|---|--|--------------|-------------|
| Chloromethane | 20 | 22 | <5 | 31-187 | 110 | 520 |
| Bromomethane | 20 | 22 | | 34-207 | 110 | 519 |
| Vinyl chloride | 20 | 24 | | 26-183 | 120 | 528 |
| Chloroethane | 20 | 18 | ↓ | 55-168 | 90 | 507 |
| Methylene chloride | 20 | 23 | <2 | 63-151 | 115 | 521 |
| Acrolein | 62 | — | — | 23-183 | — | 500 |
| Acrylonitrile | 58 | — | — | 52-186 | — | 501 |
| 1,1-Dichloroethene | 20 | 23 | <2 | 52-159 | 115 | 513 |
| 1,1-Dichloroethane | 20 | 23 | | 73-144 | 115 | 511 |
| trans-1,2-Dichloroethene | 20 | 23 | | 64-151 | 115 | 514 |
| Chloroform | 20 | 23 | | 68-142 | 115 | 509 |
| 1,2-Dichloroethane | 20 | 23 | | 54-155 | 115 | 512 |
| 1,1,1-Trichloroethane | 20 | 24 | | 59-158 | 120 | 525 |
| Carbon tetrachloride | 20 | 20 | | 39-147 | 100 | 504 |
| Bromodichloromethane | 20 | 23 | | 47-148 | 115 | 510 |
| 1,2-Dichloropropane | 20 | 21 | | 67-144 | 105 | 515 |
| trans-1,3-Dichloropropene | 20 | 22 | | 56-141 | 110 | 517 |
| Trichloroethene | 20 | 23 | | 64-130 | 115 | 527 |
| Benzene | 20 | 23 | | 71-142 | 115 | 502 |
| Dibromochloromethane | 20 | 16 | | 29-155 | 80 | 506 |
| 1,1,2-Trichloroethane | 20 | 18 | | 61-146 | 90 | 526 |
| cis-1,3-Dichloropropene | 20 | 21 | ↓ | 46-149 | 105 | 516 |
| 2-Chloroethyl vinyl ether | 20 | 16 | <5 | 7-183 | 80 | 508 |
| Bromoform | 20 | 16 | <2 | 10-149 | 80 | 503 |
| Tetrachloroethene | 20 | 17 | | 50-160 | 85 | 523 |
| 1,1,2,2-Tetrachloroethane | 20 | 20 | | 44-163 | 100 | 522 |
| Toluene | 20 | 24 | | 73-130 | 120 | 524 |
| Chlorobenzene | 20 | 22 | | 72-131 | 110 | 505 |
| Ethyl benzene | 20 | 21 | | 62-139 | 105 | 518 |
| 1,3-Dichlorobenzene | 26 | 28 | | 60-161 | 108 | 530 |
| 1,2-Dichlorobenzene | 26 | 27 | | 45-157 | 104 | 529 |
| 1,4-Dichlorobenzene | 20 | 21 | ↓ | 36-174 | 105 | 531 |
| Diethyl Benzene | 44 | — | | 71-137 | — | 533 |
| Ethyl Ether | 35 | 36 | <2 | 62-160 | 103 | 532 |
| Xylenes | 44 | 46 | <2 | 72-130 | 104 | 534 |
| MEK | 20 | 18 | <10 | 63-179 | 90 | 536 |

Limits in effect as of June 2, 1997

FREE-COL LABORATORIES, LTD.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

8/24/98 Analyst Ecklund
Dates associated with this spiked control:
Sar

Sample used as spiked control: 80P-22-008

| <u>PARAMETER</u> | <u>SPIKE ADDED</u> <u>UG/L</u> | <u>SPIKED RESULT</u> <u>UG/L</u> | <u>SAMPLE RESULT</u> <u>UG/L</u> | <u>ACCEPT. LIMITS</u> <u>% REC.</u> | <u>ASSYD</u> | <u>FILE</u> |
|---------------------|---------------------------------------|---|---|--|--------------|-------------|
| Acetone | 20 | 19 | <10 | 72-154 | 95 | 538 |
| MIBK | 20 | 16 | <10 | 53-160 | 80 | 539 |
| Ethyl Acetate | 45 | - | - | 71-140 | - | 535 |
| Tetrahydrofuran | 45 | - | - | | | |
| Carbondisulfide | 20 | 24 | <5 | | 120 | |
| Styrene | 20 | 22 | <2 | | 110 | |
| Vinyl Acetate | 20 | 18 | <10 | | 90 | |
| Amyl Acetate | 44 | - | - | | - | |
| Methyl Butyl Ketone | 20 | 20 | <10 | | 100 | |

QUALITY CONTROL DATA I

PARAMETER: PCB 1242ANALYST: Aliey WilliamsDATE: 8/1

REFERENCE CONTROL

Target

Acceptance Limits

UNITS:

mg/L1.00.85 to 1.151.02, 1.04, 0.90, 0.98 to , , , to , , ,

PREPARATION REFERENCE CONTROL

Target

Acceptance Limits

Units:

Assayed Value:

to

Date Prepped:

REPEAT CONTROL

Units: mg/L

AD = Absolute Difference

RPD = Relative Percent Differ-

Acceptable AD: 0.2Acceptable RPD: ± 10%

SAMPLE I.D.

Dilution

Sample Result

Repeat Result

AD

RPD

808-12-4391X-Plus/11.601.580.02808-12-4392X-Plus/11.491.48

Spike Control

Units: mg/L

Acceptable Limits for Percent Recovery:

Sample I.D.

Dilution

Spike Added

Spike Result

Sample Result

Recovery %

808-12-4391.01.680.888Units: mg/LLab Blank 8/14/94Limit: <0.11.12 1.14 8/14Date Prepped 8/14/94

ACTION LIMIT

Units: mg/LValue: 0.1Assayed Value: 0.05808-12-439+439

FREE-COL LABORATORIES, LTD.

808-12-417, 418, 420

P.O. BOX 557, 11618 COTTON ROAD

808-12-421

MEADVILLE, PA 16335

(814) 724-6242

808-12-408-416

FREE-COL LABORATORIES, LTD.
PCB SURROGATE SPIKE INFORMATION
METHOD 8082

WATER AND SOLID WASTE MATRICES

Date 8/17/98 Analyst M/Jerry & A.Welborn

Target Value = 1.0 mg/L

Units = mg/L

| Free-Col ID Limits: | Tetrachloro-m-Xylene 40-120% | Decachlorobiphenyl 40-120% |
|------------------------|---------------------------------|-------------------------------|
| 814141X | 61 | 55 |
| 802-12-408 | | 717. |
| 802-12-409 | | 767. |
| 410 | | 103 |
| 411 | | 82 |
| 412 | 44 | 102 |
| 413 10x | | 51 |
| 414 10x | 47 | 40 |
| 415 | 45 | 40 |
| 416 | 66 | 79 |
| 808-12-4385x Florisil | | 40 |
| 808-12-439 Florisil | | 45 |
| | | |
| | | |
| | | |
| | | |

FREE-COL LABORATORIES, LTD.

P.O. Box 557, 11818 Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

**DELPHI ENERGY & ENGINE
GENERAL MOTORS CORPORATION**

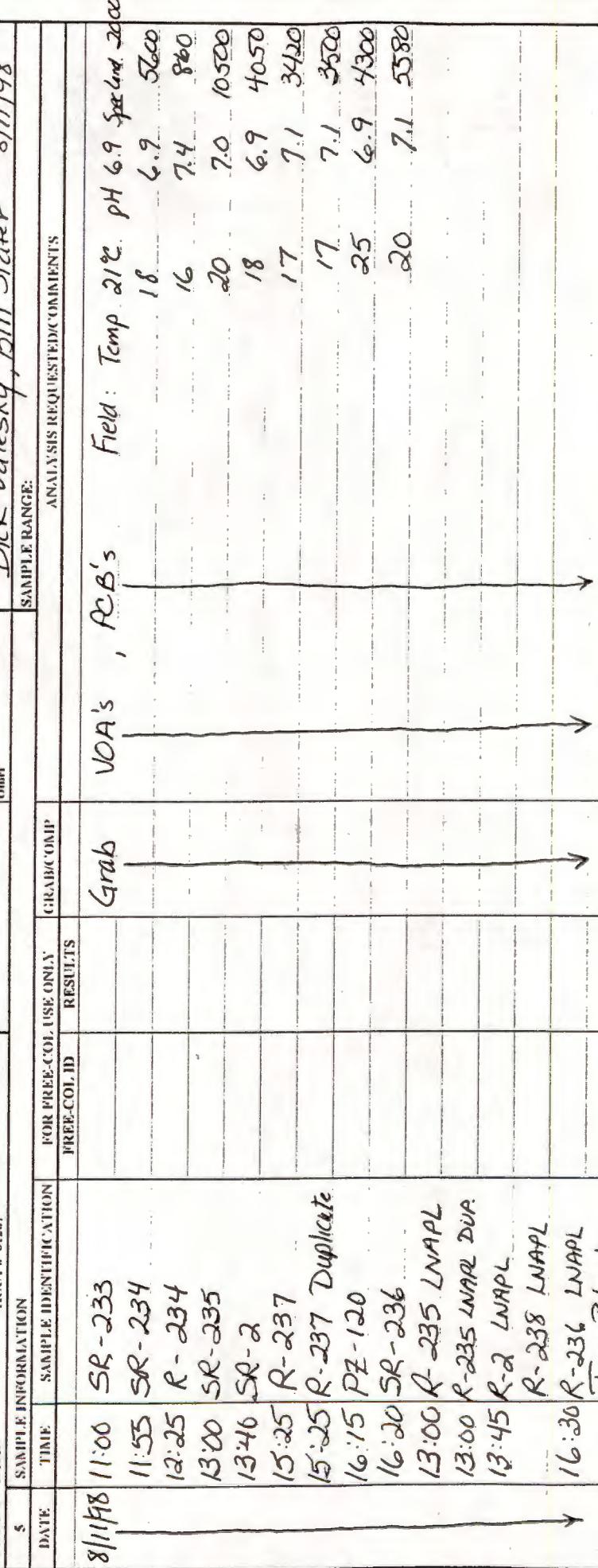
MONITORING WELLS

SAMPLE DATES: 08/11/98

CHAIN OF CUSTODY RECORD

FREE-COL LABORATORIES, LTD.

| 1 CLIENT INFORMATION | | 2 | | TYPE | |
|---------------------------------------|--|--------------------------|-----------------------|--------------------------------|---|
| COMPANY CONTACT ADDRESS CITY | DELPHI ENERGY & ENGINE RICK EISENMAN PO BOX 92700 ROCHESTER | Normal Rush (Specify) | X | Wastewater Monitoring Wells | Check all that apply |
| STAFF PHONE | NY 716-647-4766 | ZIP CODE FAX | 14606 716-647-4417 | Method Due Date Fax Date | PWS# Monitoring Wells Solid Waste 111 Other |
| PURCHASE ORDER NUMBER CLIENT # | 901649 | ACCT # | 01267 | SAMPLER'S NAME / DATE | DICK Valesky, Bill Slatter 8/11/98 |
| 5 SAMPLE INFORMATION | | | | | |
| DATE | TIME | SAMPLE IDENTIFICATION | FOR FREE-COL USE ONLY | GRAB/COMP | ANALYSIS REQUESTED/COMMENTS |
| | | FREE-COL ID | RESULTS | | |
| 1 | 8/11/98 | 11:00 SR-233 | Grab | VOA's , PCB's | Field : Temp 21°C pH 6.9 Spec 4000 |
| 2 | 11:55 | SR-234 | | | 18 6.9 |
| 3 | 12:25 | R-234 | | | 16 7.4 |
| 4 | 13:00 | SR-235 | | | 20 7.0 |
| 5 | 13:46 | SR-2 | | | 18 4050 |
| 6 | 15:25 | R-237 | | | 17 7.1 |
| 7 | 15:25 | R-237 Duplicate | | | 3420 |
| 8 | 16:15 | PZ-120 | | | 25 6.9 |
| 9 | 16:20 | SR-236 | | | 20 7.1 |
| 10 | 13:00 | R-235 LNAPL | | | 3500 4300 |
| 11 | 13:00 | R-235 WARE 2PA | | | |
| 12 | 13:45 | R-2 LNAPL | | | |
| 13 | | R-238 LNAPL | | | |
| 14 | 16:30 | R-236 LNAPL | | | |
| 15 | | Trip Blank | | | |



| Date Received | Date Requisitioned | Date | Time | Tested upon receipt? |
|---------------|--------------------|---------|------------|----------------------------------|
| 8/11/98 | 8/12/98 | 8/12/98 | 15:50 | YES |
| 8/12/98 | 8/13/98 | 8/13/98 | 15:50 | NO |
| 8/12/98 | 8/25/98 | 8/25/98 | 4 (deg. C) | Sample cooler temp. upon receipt |
| 8/28/98 | 8/28/98 | 8/28/98 | 9:00 AM | Sample check in started |
| | | | Completed | 8/13/98 |
| | | | Date Run | |
| | | | Date | |

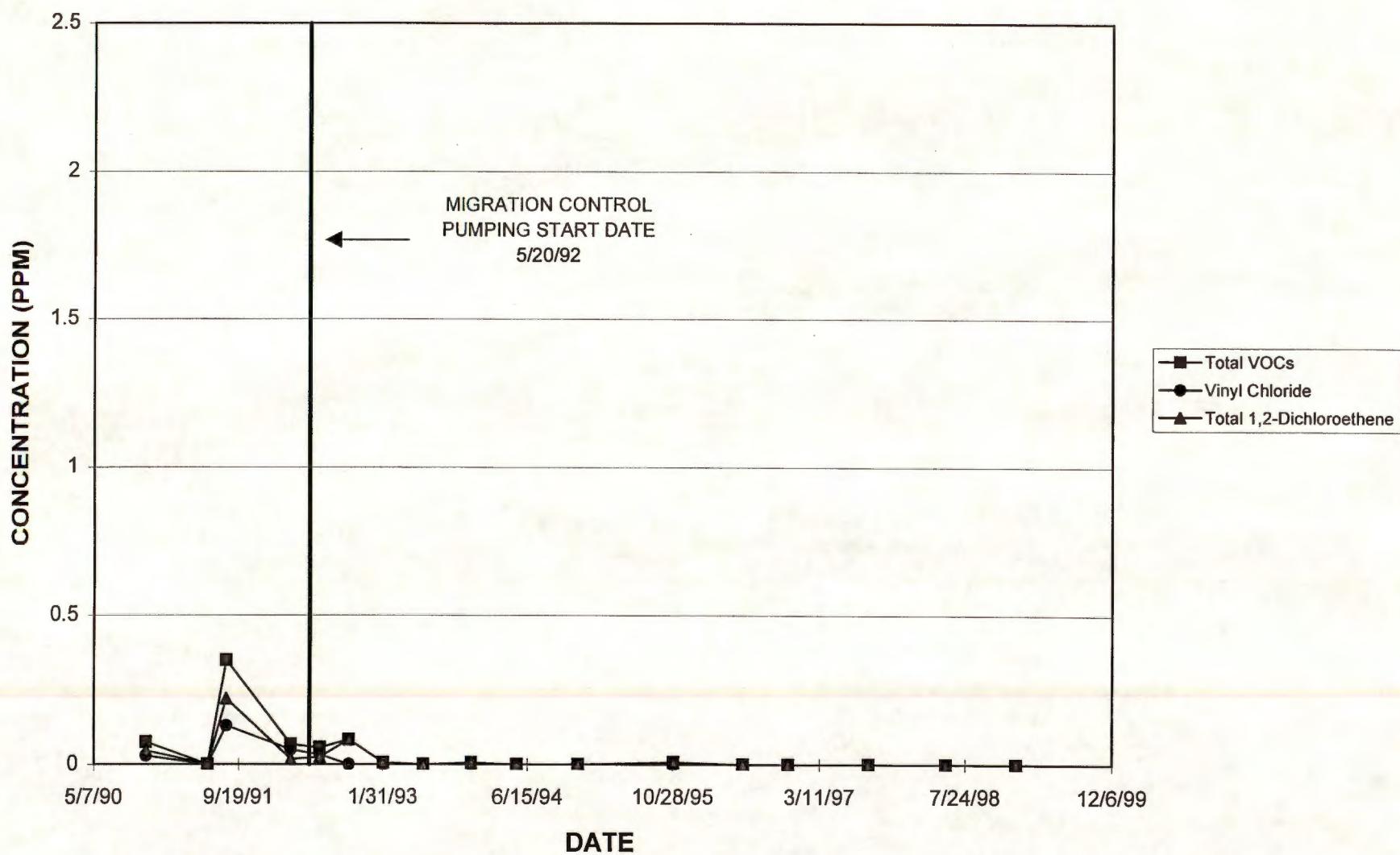
Worksheet Number:

ENVIRONMENT

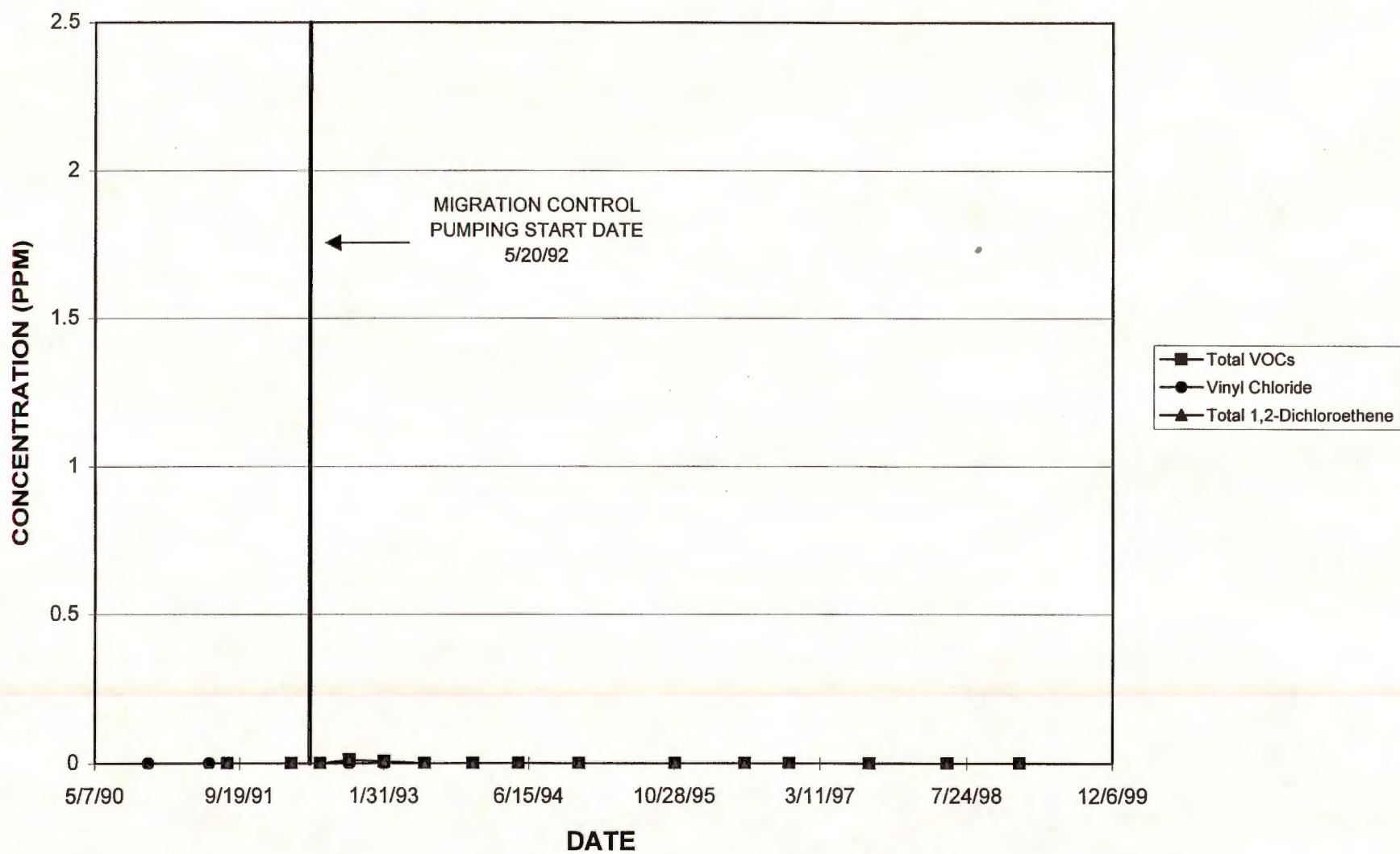
Appendix D

Time Series Plots

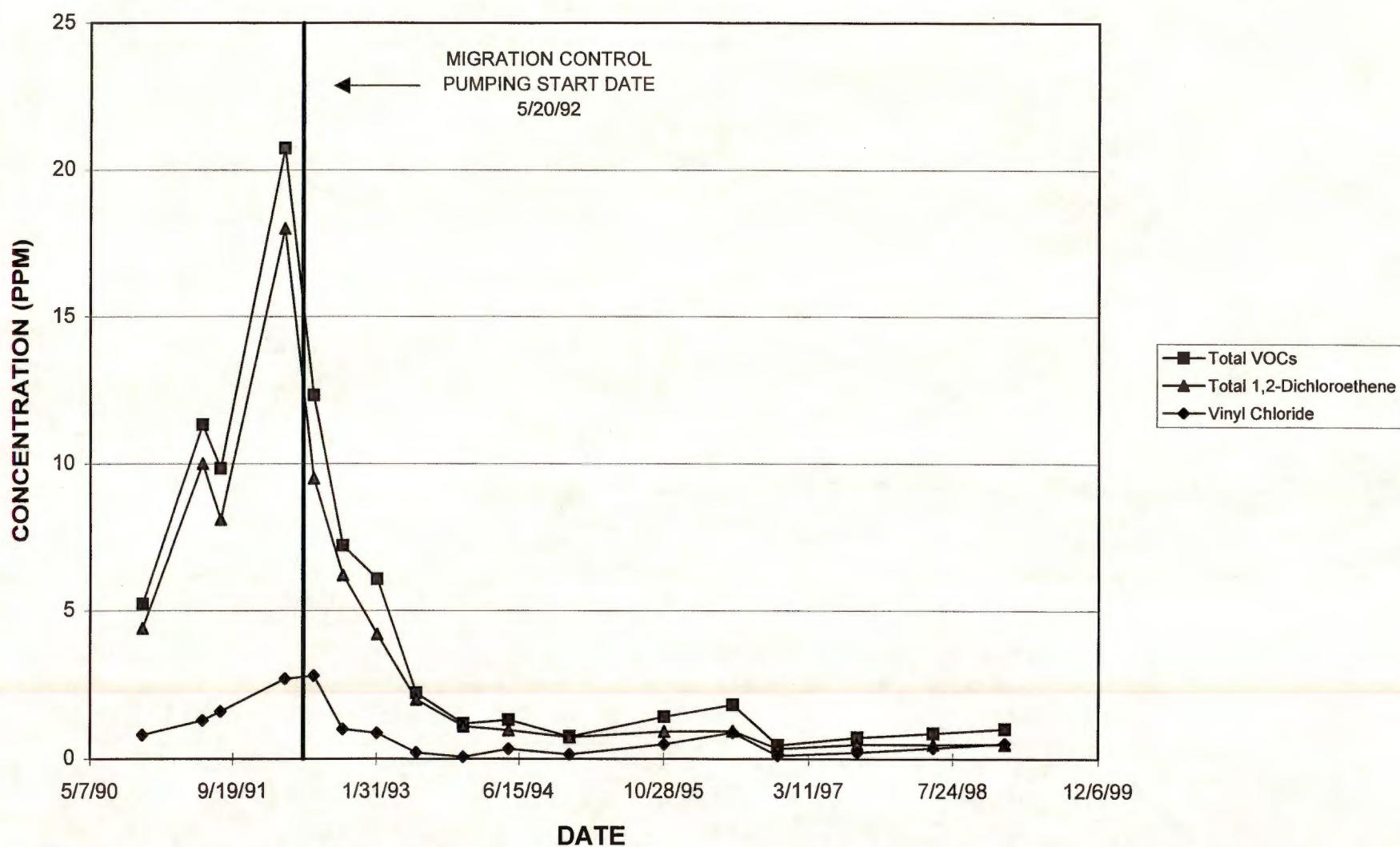
Chemical Time Series Plot For SR-107



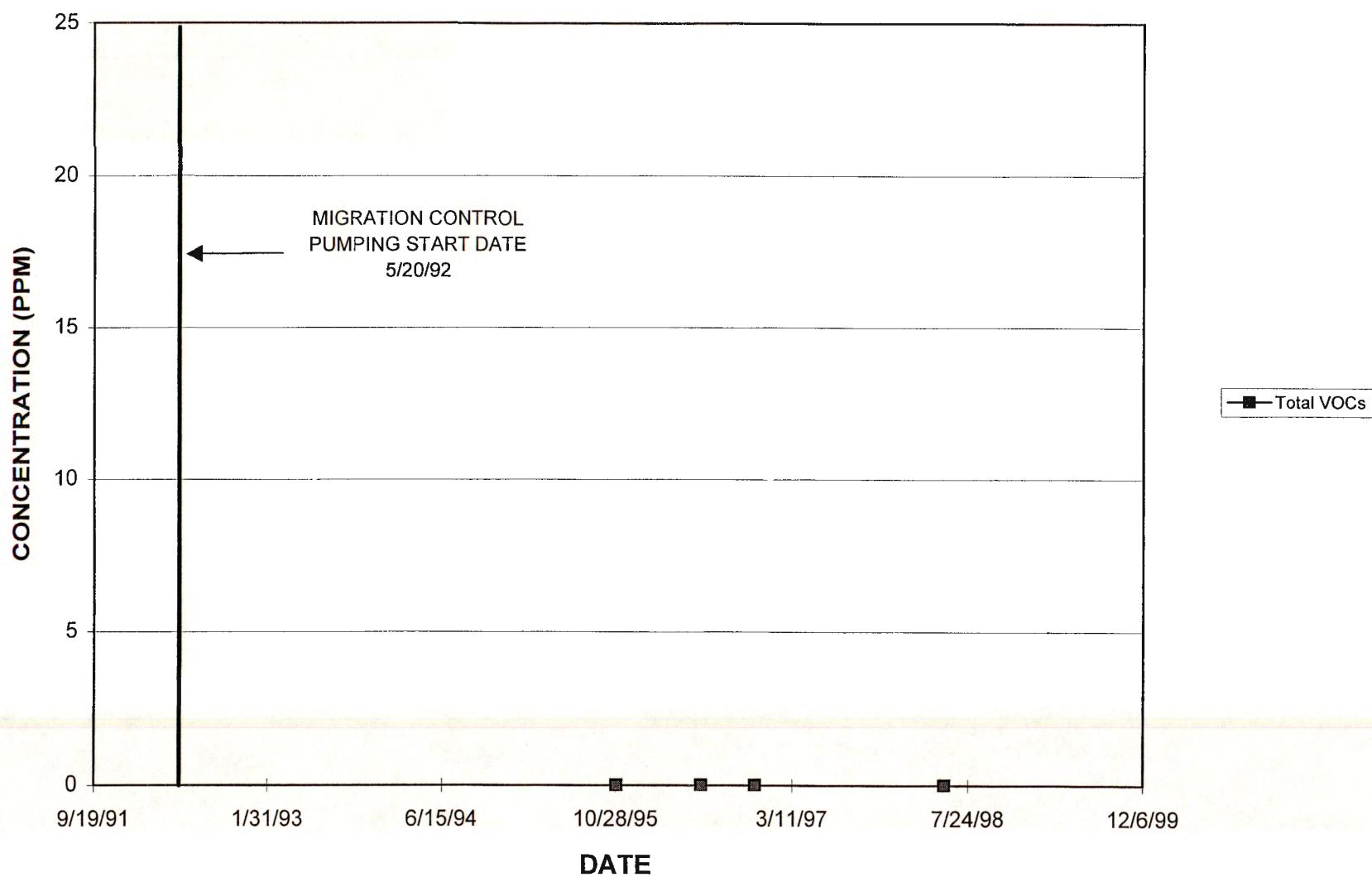
Chemical Time Series Plot For R-107



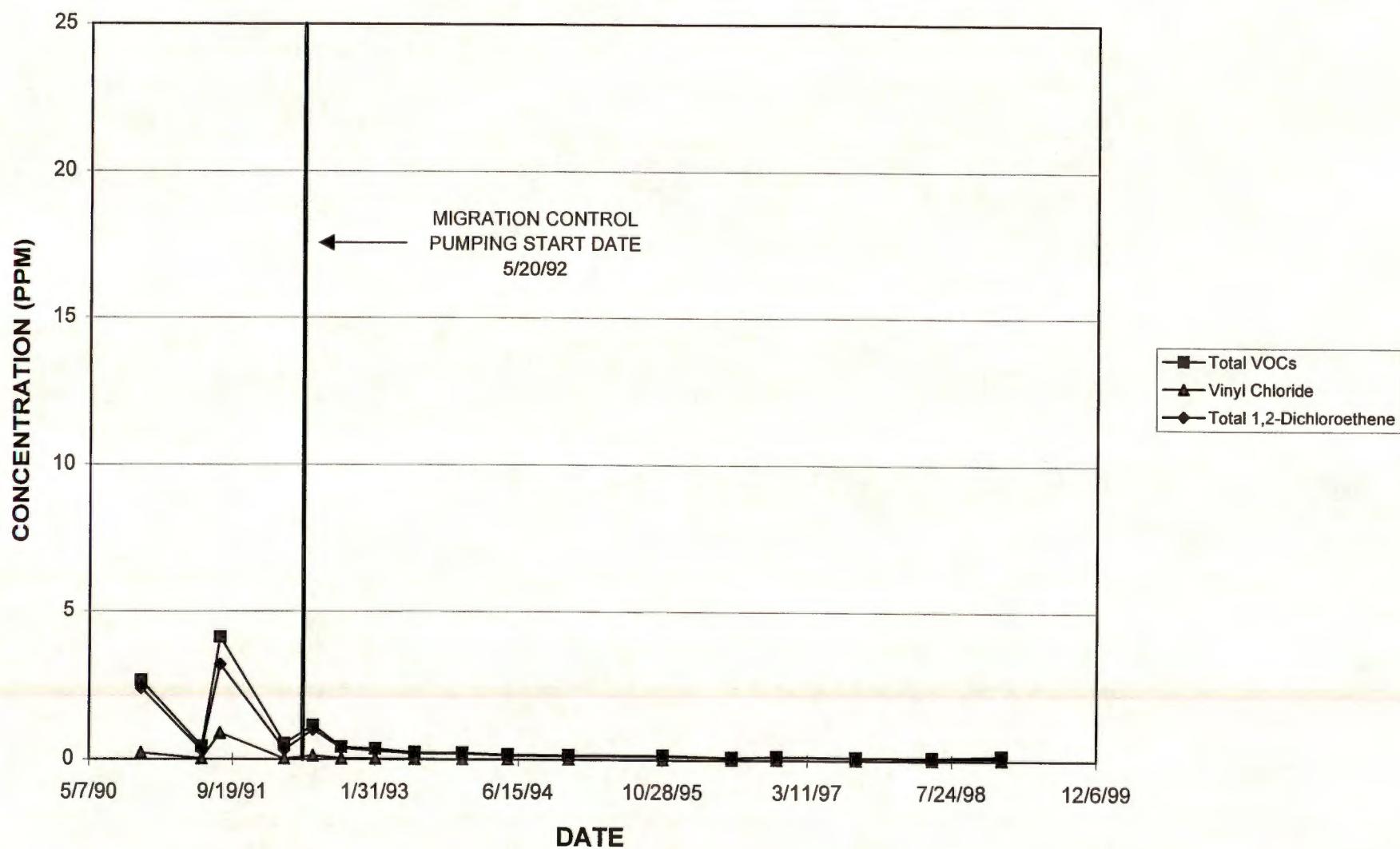
Chemical Time Series Plot For R-108



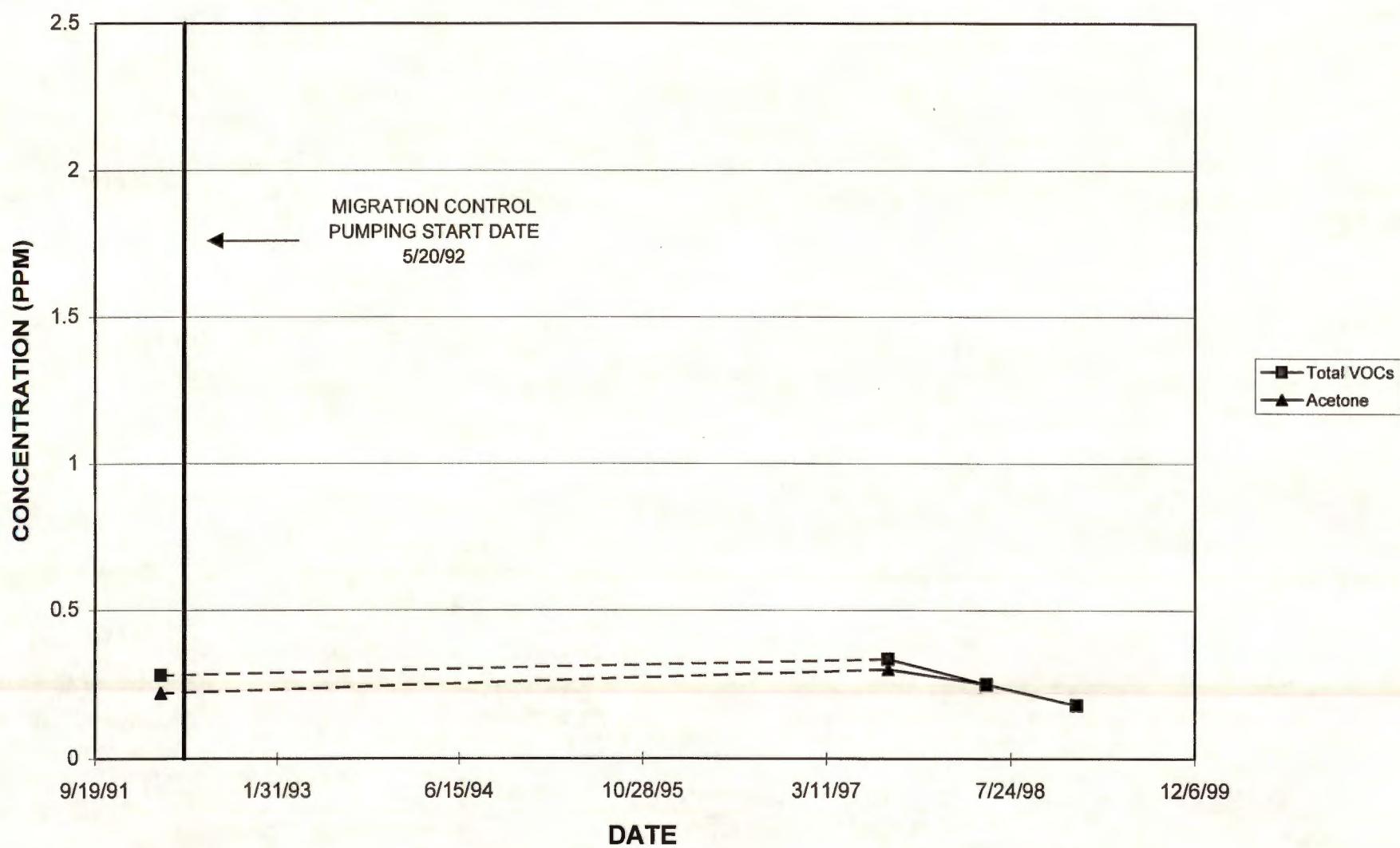
Chemical Time Series Plot For SR-8



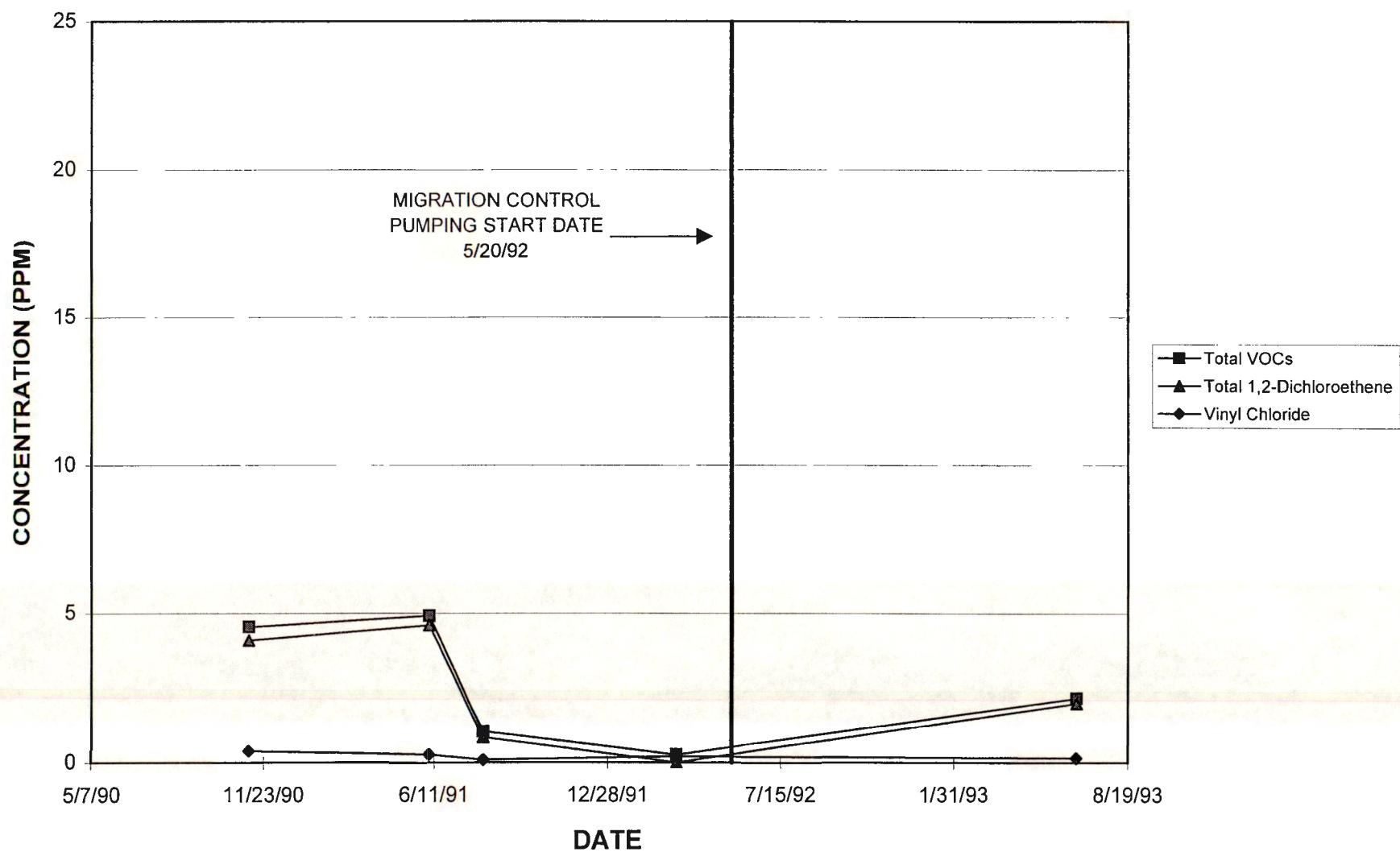
Chemical Time Series Plot For R-109



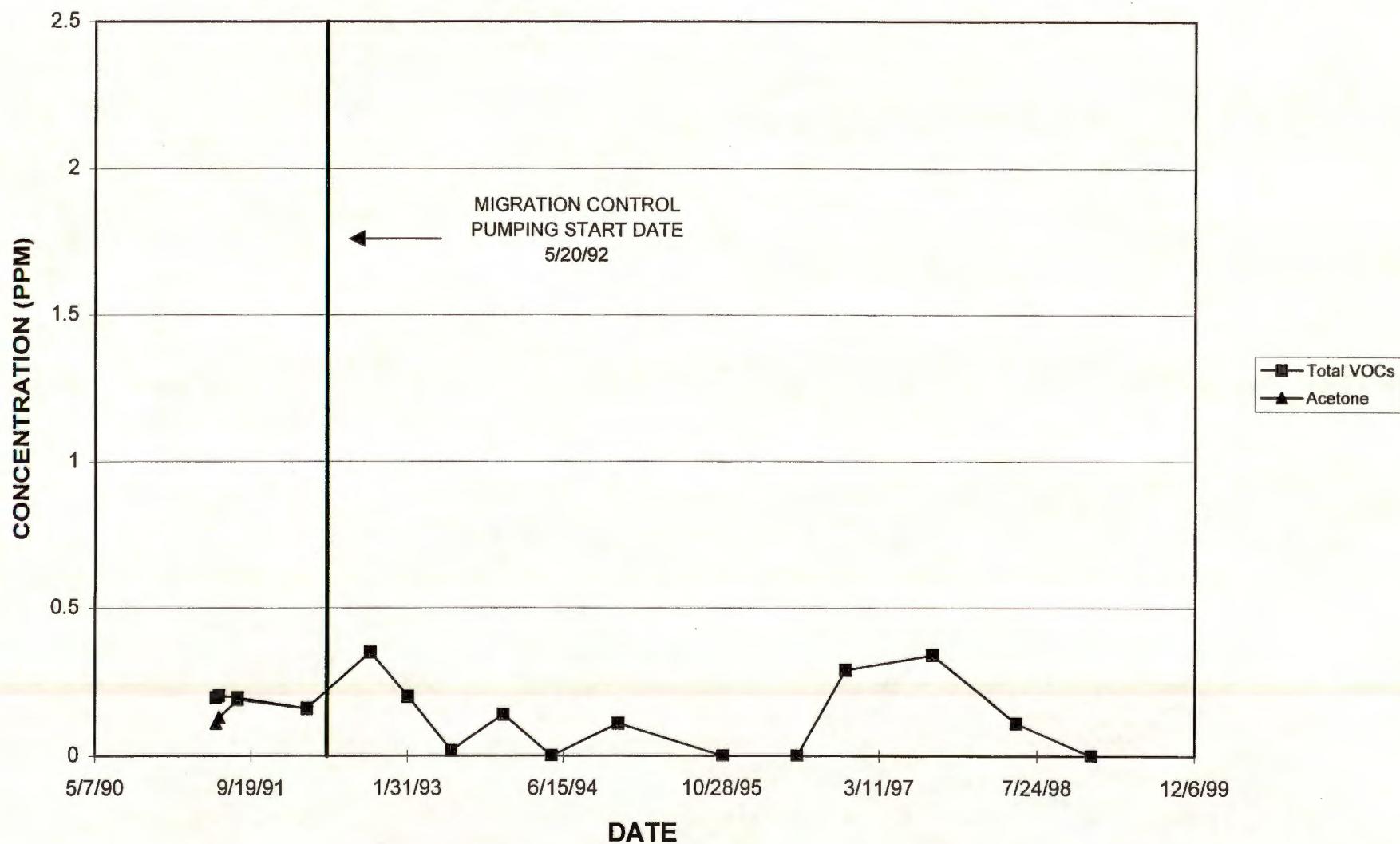
Chemical Time Series Plot For DR-108



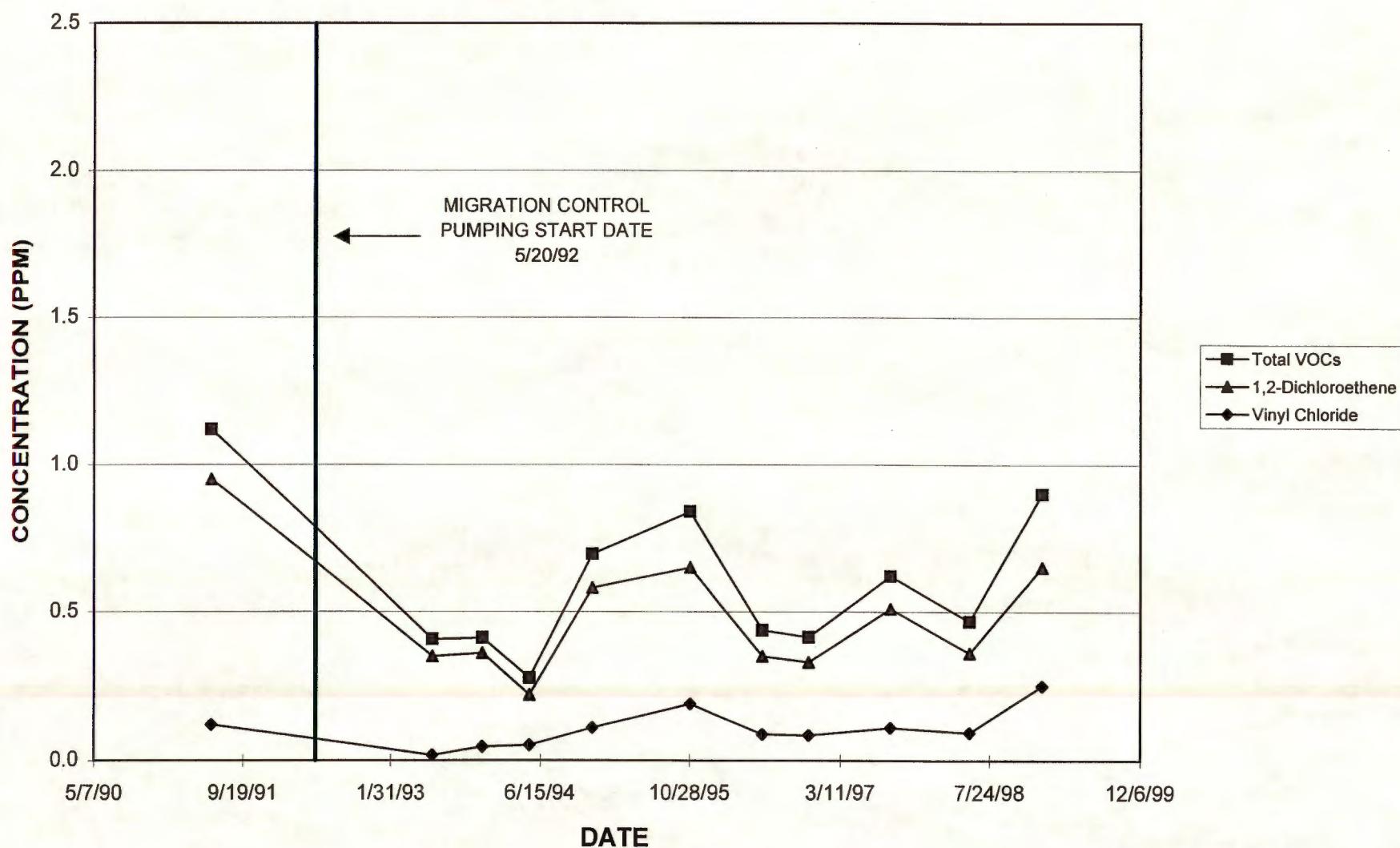
Chemical Time Series Plot For SR-9



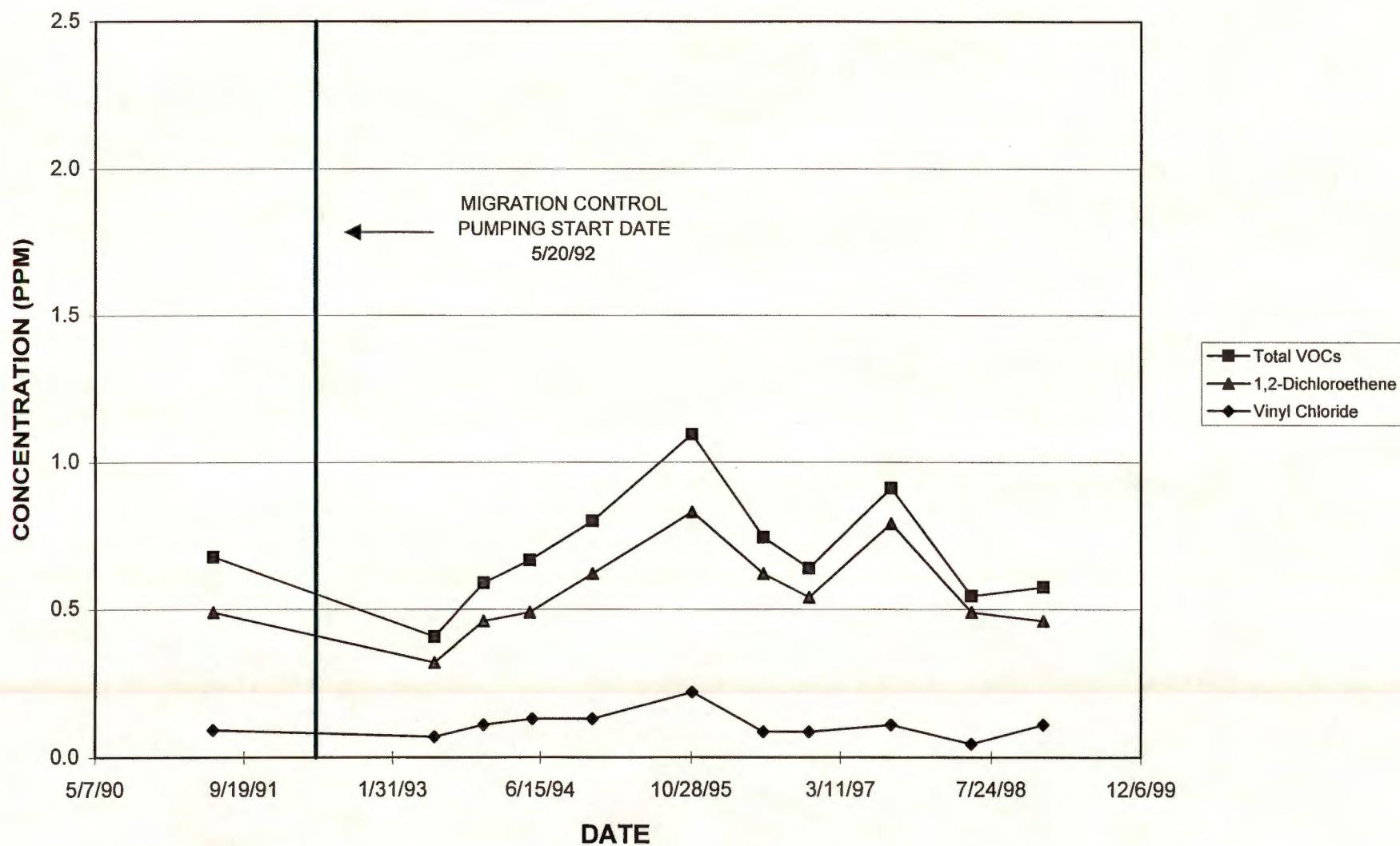
Chemical Time Series Plot For DR-109



Chemical Time Series Plot For PZ-140



Chemical Time Series Plot For PZ-141



ENVIRONMENT

Appendix E

Lexington Avenue Sewer Tunnel Photographs



1. Shaft at Tunnel Station 72+90. The east wall of the tunnel is the concrete and brick wall in the right half of the picture. Person is standing on shelf 3'10" above the tunnel invert--Seeps above his head and at the top of the concrete are from built-in weep holes.



2. Built-in weep holes in south wall of shaft at Station 72+90.



3. East wall of shaft. Tunnel ellipse is 7 ft. wide.



4. Ladder is on north wall of shaft.



5. Rusty-orange stain from groundwater seep to base of south wall of shaft, top of shelf 3'10" above invert. Light brown mineral deposits are from a weep hole seep above.



6. Seep in south wall of Tunnel 225 ft. east of shaft. Note accumulation of mineral deposits. Sample of groundwater collected here. (Tunnel Station = 75+15).



7. Same seep at 225' East of shaft, south side of tunnel (seep located approx. at Tunnel Station 75+15).



8. Seep in south wall of Tunnel 440 ft. East of shaft (seep located approx. at Tunnel Station 77+30). Dark material appeared to be oily but was determined not to be so upon examination at the project laboratory.



9. Seep 440 Ft. East of shaft (same as previous picture).



10. Seep on north side of Tunnel 462 ft. East of shaft (at Tunnel Station 77+52)--No oil observed. Groundwater sample collected.



11. Same seep at 462 ft. East of shaft, north side.



12. Seep in north wall of Tunnel 163 ft. East of shaft (approx. Tunnel Station = 74+53)--No oil observed. GW sample collected here.



13. Same seep at 163 ft. East of shaft, north side.



14. Looking west towards shaft at Station 72+90 from seep at Station 74+53; showing numerous inactive or very minor seeps along joint 6" above floor.



15. Oil seep in south wall of Tunnel 101 ft. East of shaft. Sampled oily mineral deposits at this location. No freely flowing oil or water observed from oily section. (Tunnel Section = 73+91).



16. Same oily seep on south wall 101 ft. East of shaft.



17. Seep at base of south wall 20 ft. West of 72+90 shaft, possible oil puddled on floor in accumulation of mineral material -No samples collected (Tunnel Station = 72+70).



18. Same seep in south wall 20 ft. west of shaft.



19. Seep at base of south wall of Tunnel 134 ft. west of shaft--No oil observed--No sample collected. (Tunnel Station 71+56).



20. Same seep at 134 ft. west of shaft.