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**PHASE III ENVIRONMENTAL SITE ASSESSMENT  
ELMO CASH STORE**

Elmo, Montana

Prepared for:

Confederated Salish & Kootenai Tribes  
301 Main Street  
Polson, Montana 59860

Prepared by:

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September 2007  
Project No. 12454.002

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**PHASE III ENVIRONMENTAL SITE ASSESSMENT  
ELMO CASH STORE  
CONFEDERATED SALISH & KOOTENAI TRIBES  
BROWNFIELDS PROJECT**

Prepared for:

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September 2007

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## 1.0 INTRODUCTION

Geomatrix Consultants, Inc. (Geomatrix) has completed a Phase III Environmental Site Assessment (ESA) of the Elmo Cash Store (Site) in Elmo, Montana on behalf of the Confederated Salish and Kootenai Tribes (CSKT). The investigation was completed in accordance with the Sampling and Analysis Plan (SAP) submitted to and approved by the U.S. Environmental Protection Agency (EPA) in March 2007. The purpose of the investigation was to gather data to determine the extent and magnitude of petroleum in shallow groundwater at the Site. Geomatrix prepared this report on behalf of the CSKT to present the results of the Phase III ESA. Attachments (figures, tables, and appendices) follow the text of this report. Well lithologic logs and laboratory analytical reports are provided in Appendices A and B, respectively.

### 1.1 Background and General Site Description

The site is located at 77070 Highway 93 North in Elmo, Flathead Indian Reservation, Montana (Figures 1 and 2). The site is currently unoccupied and includes the one-story former Elmo Cash Store building and three outbuildings. As shown on Figure 2, two fuel dispensers are located to the west of the store building. A gasoline underground storage tank (UST) is located near the southwest corner of the building. The tank reportedly includes one 4,000-gallon and one 8,000-gallon compartment. Site boundaries include U.S. Highway 93 to the west; residential development to the north and east; and undeveloped land to the south owned by the CSKT.

Atlatl, Inc. (1999) completed several soil borings and measured concentrations of selected petroleum hydrocarbons in groundwater (Figure 2). Osprey and Maxim (2005) recommended that a Phase II ESA be performed to evaluate the extent and magnitude of petroleum impacts to soil and groundwater at the site. A summary of the results of the Phase I ESA and information regarding the site setting, history, geology, and hydrogeology are presented in the 2005 Final SAP (Maxim, 2005a). Geomatrix completed a Phase II ESA in October 2006, and at that time recommended further evaluation of groundwater impacts and excavation and removal of petroleum-impacted soil (Geomatrix 2006).

## 2.0 FIELD ACTIVITIES

In 2006, four monitoring wells were installed in the shallow perched groundwater zone as part of the Phase II ESA (Geomatrix 2006). During May 2007, Geomatrix installed four additional monitoring wells in an attempt to determine the extent of petroleum impacts to shallow groundwater.

### 2.1 Monitoring Well Installation and Subsurface Soil Investigation

On May 17, 2007, Enviroprobe Services, Inc. (Enviroprobe) of Whitehall, Montana installed four groundwater monitoring wells (MW-5 through MW-8) using direct-push methods. Well locations are shown in Figures 2 and 3. Geomatrix contacted the Montana Utility Notification Center more than 48 hours prior to the start of field activities to identify underground utilities near the investigation area. Based on discussions with CSKT personnel, it was determined that tribal permits were not required for the Phase III investigation. Geomatrix personnel provided well installation oversight and recorded lithologic descriptions of materials encountered during installation (Appendix A). Continuous soil core samples were collected from ground surface to the total depth of the well using an acetate sleeve sampler. Cores were screened in the field for

the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). VOC measurements are provided on the boring logs (Appendix A).

The monitoring wells were installed to depths of 10 to 12.5 feet bgs based on the depth of soil saturation at each location. The wells were constructed of two-inch diameter, Schedule 40 PVC with 5 to 7.5 feet of 0.01-inch factory slotted well screen. Further details of well construction and installation can be found in Appendix A. Following installation, monitoring wells MW-5 and MW-6 were developed by surging and evacuating the wells until they were dry. Soil encountered in borings (MW-7 and MW-8) were semi-saturated at the time of well installation but the wells were dry after installation and could not be developed.

Six soil samples from the direct-push borings were submitted for laboratory analyses. Geomatrix collected one soil sample from the depth interval corresponding to the perched water-bearing zone from each monitoring well location, which was encountered at depths ranging from 7 to 12 feet bgs. Two additional samples (one each from wells MW-5 and MW-7) were submitted based on high PID readings (Appendix A).

In accordance with the EPA-approved SAP, the soil samples were submitted to Northern Analytical Laboratories (NAL) in Billings, Montana for analyses of volatile petroleum hydrocarbons (VPH) by the Massachusetts Department of Environmental Protection (MADEP)-VPH-98 method, and total lead by EPA Method 6010.

## **2.2 Ground Water Investigation**

Prior to sampling, Geomatrix measured the depth to groundwater in wells MW-1 through MW-6 on May 23, 2007. Field personnel collected groundwater samples from these six wells using a low-flow bladder pump, which allowed water to be purged from each well and then sampled without volatilization of organic compounds (ASTM 2005). A multi-parameter probe was used to measure water quality during sample collection, ensuring that the water sampled was representative of the formation and not of water stagnant in well casings. Well MW-4 was sampled for petroleum hydrocarbons but a lead sample could not be obtained because of insufficient water in the well casing. Wells MW-7 and MW-8 could not be sampled because they were dry (one week after installation).

As part of an educational opportunity provided by Salish Kootenai College (SKC) and Geomatrix, an SKC Environmental Geology class traveled to Elmo on the day of the sampling. Geomatrix personnel discussed the history of contamination and environmental investigation, provided a site tour, and demonstrated the use of field and sampling equipment.

The elevation of each monitoring well was surveyed by Carstens Engineering, Inc. of Polson, Montana to allow for a determination of groundwater flow and gradient on the Site.

In accordance with the SAP, the groundwater samples were submitted to NAL for analyses of volatile petroleum hydrocarbons (VPH) by the MADEP-VPH-98 method and total lead by EPA Method 6010.

## **3.0 INVESTIGATION RESULTS**

Subsurface soil and groundwater analytical results and depth to groundwater measurements are summarized in Tables 1 through 3 and discussed below. The analytical results for soil were compared to Montana Department of Environmental Quality (MDEQ) Tier I Risk-Based

Screening Levels (RBSLs) and EPA Preliminary Remediation Goals (PRGs) for residential soil. Analytical results for groundwater were compared to Tier I RBSLs, Montana Circular DEQ-7 groundwater quality standards, and EPA primary Maximum Contaminant Levels. The laboratory analytical reports are provided in Appendix B.

### 3.1 Subsurface Soil Assessment

Benzene was detected in soil above the RBSL from monitoring well MW-5 at 12 feet bgs. No other constituents were detected above the RBSLs in subsurface soil from monitoring well locations MW-5 through MW-8 (Table 1).

### 3.2 Groundwater Investigation

Groundwater elevations measured during the sampling event are summarized in Table 2. As shown on Figure 3, the groundwater flow direction observed during the sampling event is generally to the southeast toward Flathead Lake. Near the store building, the gradient is approximately 0.06. The gradient increases to an estimated value of 0.22 between wells MW-3 and MW-4 (Figure 3). Based on groundwater depths, gradients, and the lack of groundwater in wells MW-7 and MW-8, it appears that the shallow perched zone on the site does not extend a significant distance beyond well MW-4.

Contaminant concentrations detected in groundwater samples collected during the sampling event are summarized in Table 3 and the complete laboratory analytical report is provided in Appendix B. Benzene, C5-C8 aliphatic hydrocarbons, and C9-C10 aromatic hydrocarbons were detected in groundwater from all monitoring wells at concentrations above state and federal groundwater quality Tier I RBSLs and standards (Table 3). Naphthalene was detected in monitoring wells MW-2, MW-3, and MW-5 at concentrations above the Tier I RBSL of 100 micrograms per liter ( $\mu\text{g/L}$ ). Ethylbenzene detected in well MW-5 exceeded the Tier I RBSL and EPA Maximum Contaminant Level (MCL) of 700  $\mu\text{g/L}$ , and groundwater from well MW-3 exceeded the C9-C12 aliphatic hydrocarbons Tier I RBSL. Lead (as total lead) was not detected above the DEQ-7 or EPA MCL (15  $\mu\text{g/L}$ ) in any of the monitoring wells.

The May 2007 results are consistent with the results of the 2006 Phase II ESA (Geomatrix 2006), with some exceptions. The naphthalene concentration in well MW-4, which exceeded the Tier I RBSL in 2006, was below the detection limit in 2007. Lead was detected above the DEQ-7 and EPA MCL in 2006 but not in 2007. In 2006, the C9-C10 aliphatic hydrocarbon concentration exceeded the Tier I RBSL in well MW-2, but in 2007 the concentration was below the Tier I RBSL. Ethylbenzene and toluene were also detected above their respective state and federal RBSLs and standards in monitoring well MW-4 in 2006 but not in 2007.

In general, monitoring well MW-3 had the highest detected concentrations of petroleum hydrocarbons. As shown on Figure 3, this well is located immediately downgradient of the location of former and existing underground storage tank at the Site. Well MW-5 is upgradient of the contaminant source based on the groundwater flow direction in the perched groundwater zone. It also exhibited concentrations above state and federal groundwater standards and screening levels.

### 3.3 Quality Assurance / Quality Control

Geomatrix collected a total of seven groundwater samples and six subsurface soil samples, including a blind field duplicate, during the course of this Phase III site assessment. Sample collection procedures generally followed the project Quality Assurance Project Plan (Maxim 2005) and the Sampling and Analysis Plan (SAP) for the Phase III assessment (Geomatrix 2006).

The groundwater sample cooler had an internal temperature of 6°C upon arrival at the laboratory; the temperature inside the soil cooler was 3.8°C. All samples were intact and in the proper containers. VOA vials for VPH analyses had zero headspace, and the pH was less than two. All samples were received by the laboratory in good condition and within the respective holding times. Some of the groundwater samples, however, were not analyzed for benzene within the required sample holding time (Table 3).

#### 3.3.1 Field Quality Control Samples

One groundwater blind field duplicate was collected and analyzed during the investigation. Field duplicate relative percent differences (RPDs) were generally within the required control limits (RPD of 20% or less for water). The RPD for benzene between the natural and duplicate samples was 81%, which is greater than the required control limit. Consequently, the value of benzene for this sample (well MW-1) is considered an estimate.

Equipment rinse blanks were not collected during groundwater sampling because new, disposable sampling equipment was used to collect each sample. Trip blanks were not provided by the laboratory and although unlikely, it is unknown whether VOCs were introduced to the samples during shipment. Geomatrix did not collect a field blank during the sampling event due to the small number of samples collected.

#### 3.3.2 Laboratory Quality Assurance/Quality Control

Laboratory procedures were consistent with the project requirements. Sample holding time requirements were met for all samples with the exception of benzene in groundwater. Benzene analyses of groundwater from wells MW-2, MW-3, and MW-6 were completed after the holding time had passed (Table 3). Laboratory duplicate and matrix spike samples were prepared and analyzed at the required frequencies.

The laboratory duplicate and matrix spike recoveries were within the required control limits. Laboratory preparation blanks were analyzed at the required frequency and all results were below the reporting detection limits. Laboratory control samples were also within the required control limits.

#### 3.3.3 Deviations from SAP

The SAP proposed the completion of four additional monitoring wells and sampling of all eight wells. Four wells were installed (MW-5 through MW-8), but groundwater samples from wells MW-7 and MW-8 could not be collected because the wells were dry at the time of sampling. A groundwater sample for total lead was not collected from well MW-4 due to a lack of sufficient water in the well.

### 3.3.4 Data Quality Objectives

The data quality objectives for the project were met, with some exceptions as described above.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

### Soil

In 2006, volatile petroleum hydrocarbons were detected in subsurface soil samples collected adjacent to the UST basin and fuel dispensers at the site at concentrations that exceeded DEQ Tier I RBSLs and EPA Region IX PRGs (Geomatrix 2006). In 2007, no petroleum hydrocarbons were detected above RBSLs/PRGs in soil obtained from boreholes MW-5 through MW-8, with the exception of benzene in borehole MW-5. At this location, a soil sample at 12 feet exceeded the DEQ RBSL for benzene, but was below the EPA residential PRG. The 2007 investigation determined the extent of soil above applicable soil screening levels downgradient (to the southeast) of the source area.

Based on the soil sample and groundwater data collected during the 2006 and 2007 assessments, Geomatrix recommends that impacted soil in proximity to the former and existing underground storage tank (source of contamination to groundwater) be excavated and properly disposed of off the site. This would likely require the removal of the existing UST and associated fuel dispensers and underground piping to access the contaminated soil. Underground sewer and water lines adjacent to the UST basin would also need to be either shored or otherwise protected or removed and rerouted to allow petroleum impacted soil in these utility corridors to be removed.

### Groundwater

In May 2007, volatile petroleum hydrocarbons were detected in groundwater from six shallow perched monitoring wells at concentrations that exceed DEQ Tier I RBSLs, DEQ-7 standards, and EPA MCLs. Wells MW-7 and MW-8, installed in what was believed to be the perched zone furthest downgradient from the source area, did not contain water more than a week after they were installed, and therefore were not sampled. The borehole logs for these wells indicate that the geologist observed semi-saturated, putty-like silt within the screened interval for these wells (Appendix A). This information suggests that the wells may be located at the downgradient limit of the perched groundwater zone in this area.

The groundwater investigation completed in May 2007 failed to determine the extent of groundwater impacts in the perched groundwater zone. In particular, the northern (upgradient), the eastern, and the lateral southwestern extent of groundwater impacts in the perched groundwater were not established. The southeast extent (considered directly downgradient of the source) was determined by lack of water in the perched groundwater zone in wells MW-7 and MW-8. Well locations are presented in Figures 2 and 3.

At this time, Geomatrix recommends installation of three additional shallow perched groundwater wells and one deeper monitoring well near well MW-3 (Figure 4). The shallow wells are recommended to help determine the full extent of impacts in the shallow perched groundwater zone. The deeper well is recommended to evaluate whether contaminants have migrated vertically downward to the aquifer below the perched groundwater zone. A review of logs for wells near the Site, and information from the Lake County Sanitarian's office provided in

the 2005 SAP (Maxim 2005a), show that the depth to the regional water table at the site (below the perched zone) is approximately 20 to 25 feet bgs. Geomatrix recommends groundwater analysis of VPH and total and dissolved lead upon completion of well development and purging.

Geomatrix also recommends that more advanced analysis of the petroleum in well MW-3 and MW-5 be considered to determine if the petroleum from both wells originates from the same source. The presence of petroleum in MW-5 (upgradient of the source area) suggests that there may be another source of petroleum upgradient of the Site. However, the types and concentrations of petroleum compounds detected in both wells are consistent, indicating that the source may be the former tanks at the Site. This site is also complicated by utility lines along the highway that may affect movement of contamination in counterintuitive directions and a complex geology that could account for the detection of contamination in MW-5. Hydrocarbon speciation of the fuel in both wells, however, would provide an additional piece of important information necessary for completing a technically sound cleanup plan for the Site.

## 5.0 REFERENCES

ASTM International. 2005. *Standard Practice for Low-Flow Purging and Sampling for Wells and Devices Used for Groundwater Quality Investigations*. Designation D 6771-02.

Atlatl, Inc. 1999. Remedial Investigation Report: Elmo Cash Store, Highway 93, Elmo, Montana. May 1999.

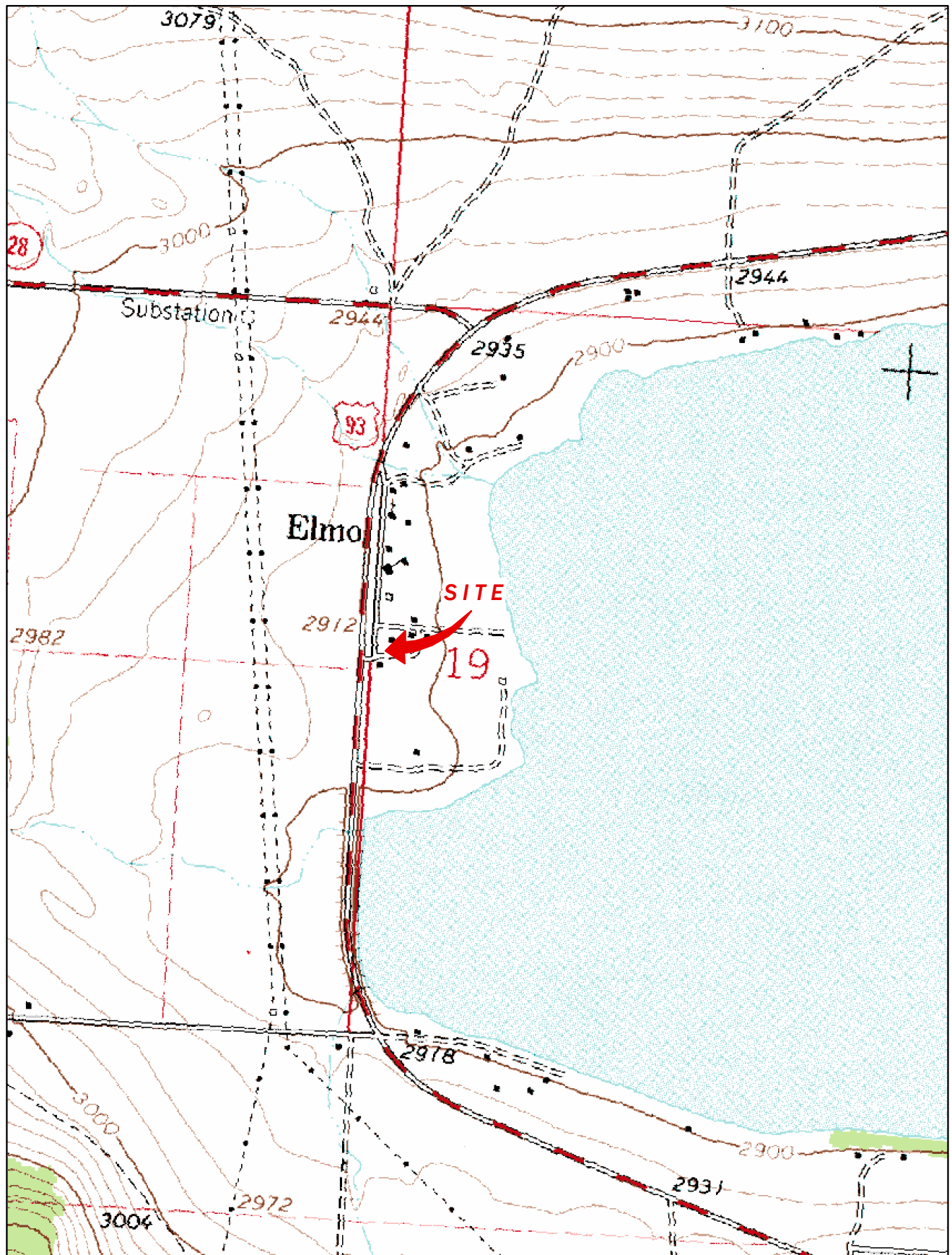
Geomatrix Consultants, Inc. 2006. *Phase II Environmental Site Assessment, Elmo Cash Store, Confederated Salish and Kootenai Tribes Brownfield Project*. October 2006.

Maxim Technologies, Inc. 2005a. *Sampling and Analysis Plan, Phase II Environmental Site Assessment, Elmo Cash Store, Confederated Salish and Kootenai Tribes Brownfield Project, Polson, Montana*. December 2005.

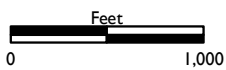
Maxim Technologies, Inc. 2005b. *Quality Assurance Project Plan for Environmental Site Assessments, Confederated Salish and Kootenai Tribes Brownfield Project*. December 2005.

Osprey Environmental Consulting, Inc. and Maxim Technologies, Inc. 2005. *Phase I Environmental Site Assessment, Elmo Cash Store*. September 2005.

## **FIGURES AND TABLES**

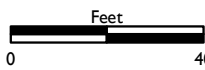
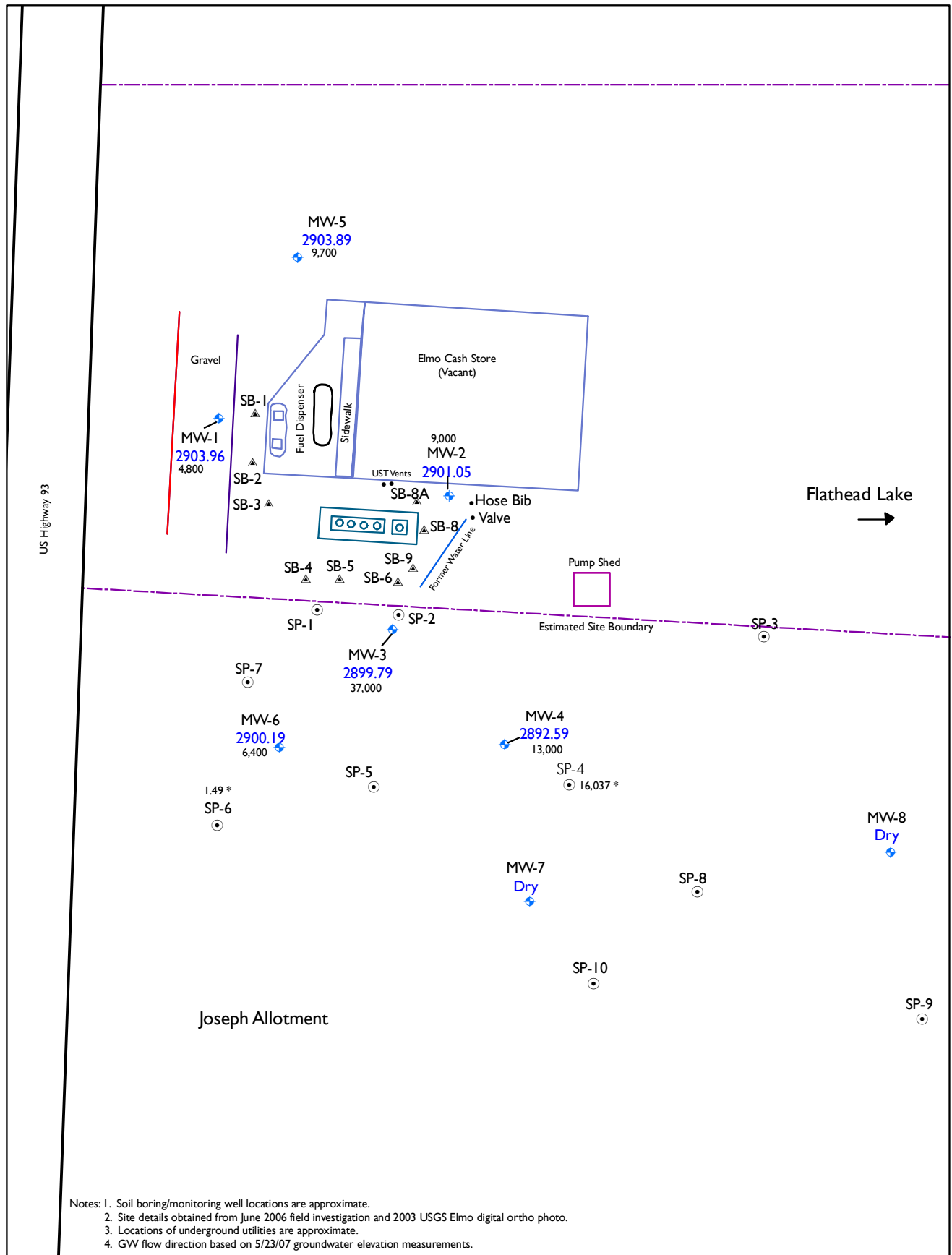


Source: USGS 7.5' Elmo Quad



Geomatrix

Location Map  
Elmo Cash Store  
77070 Highway 93  
Elmo, Montana  
FIGURE 1



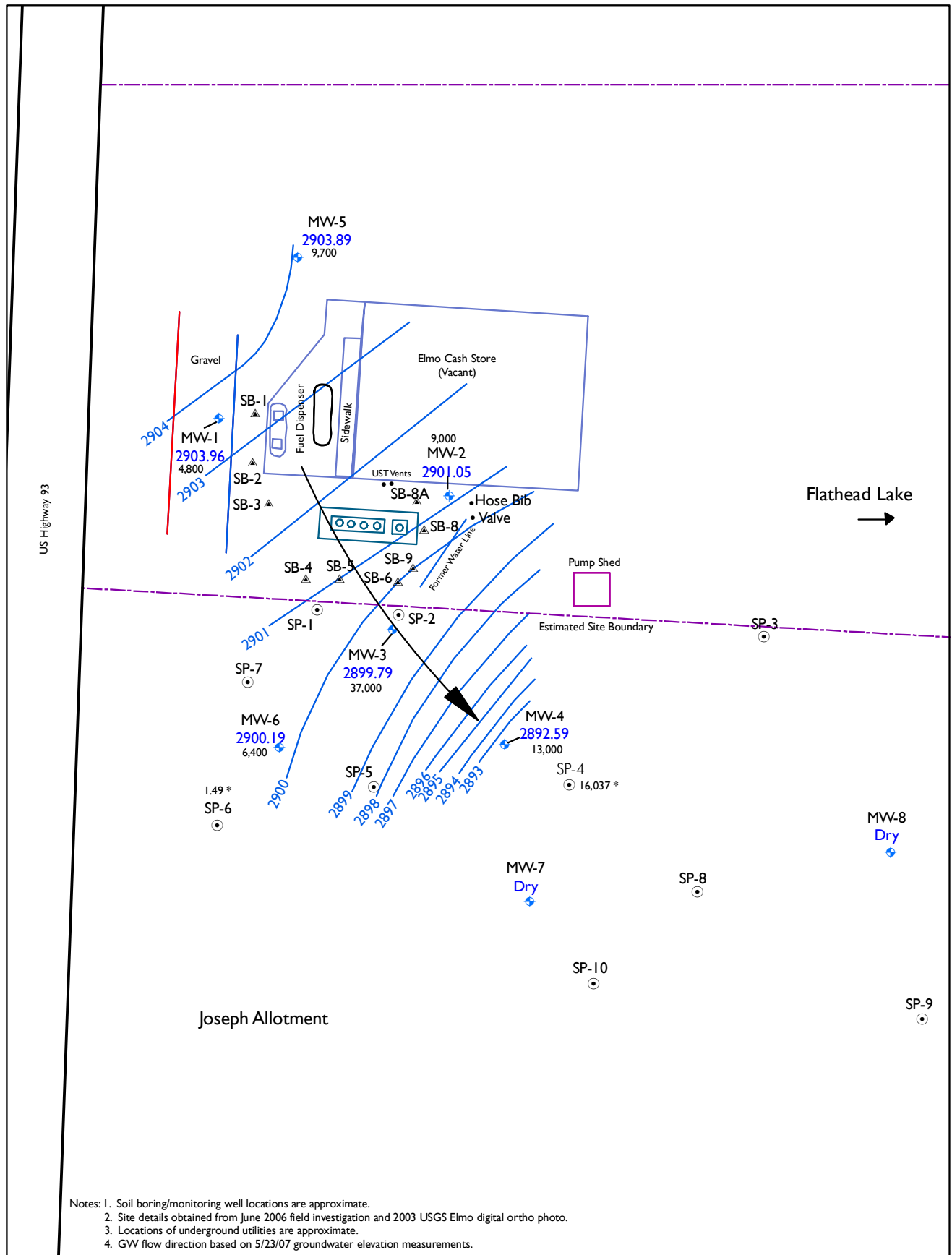
Geomatrix

- + Existing Monitoring Well
- Telephone Line
- - - Estimated Site Boundary

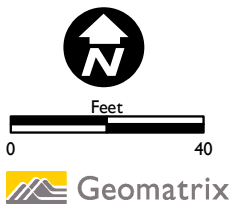
- SP-9; 1999 Soil Boring Locations (Atlal 1999)
- Valve; UST Vents; Hose Bib
- ▲ 2006 Soil Boring Locations

5,200 Total purgeable hydrocarbon concentration, ug/L  
 16,037 \*Sum of select petroleum hydrocarbons detected in GW by Atlal in 1999 with field GC, ug/L

**Site Map**  
**Elmo Cash Store**  
**77070 Highway 93**  
**Elmo, Montana**  
**FIGURE 2**

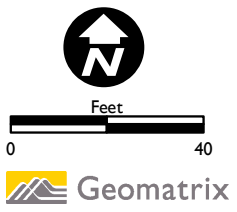
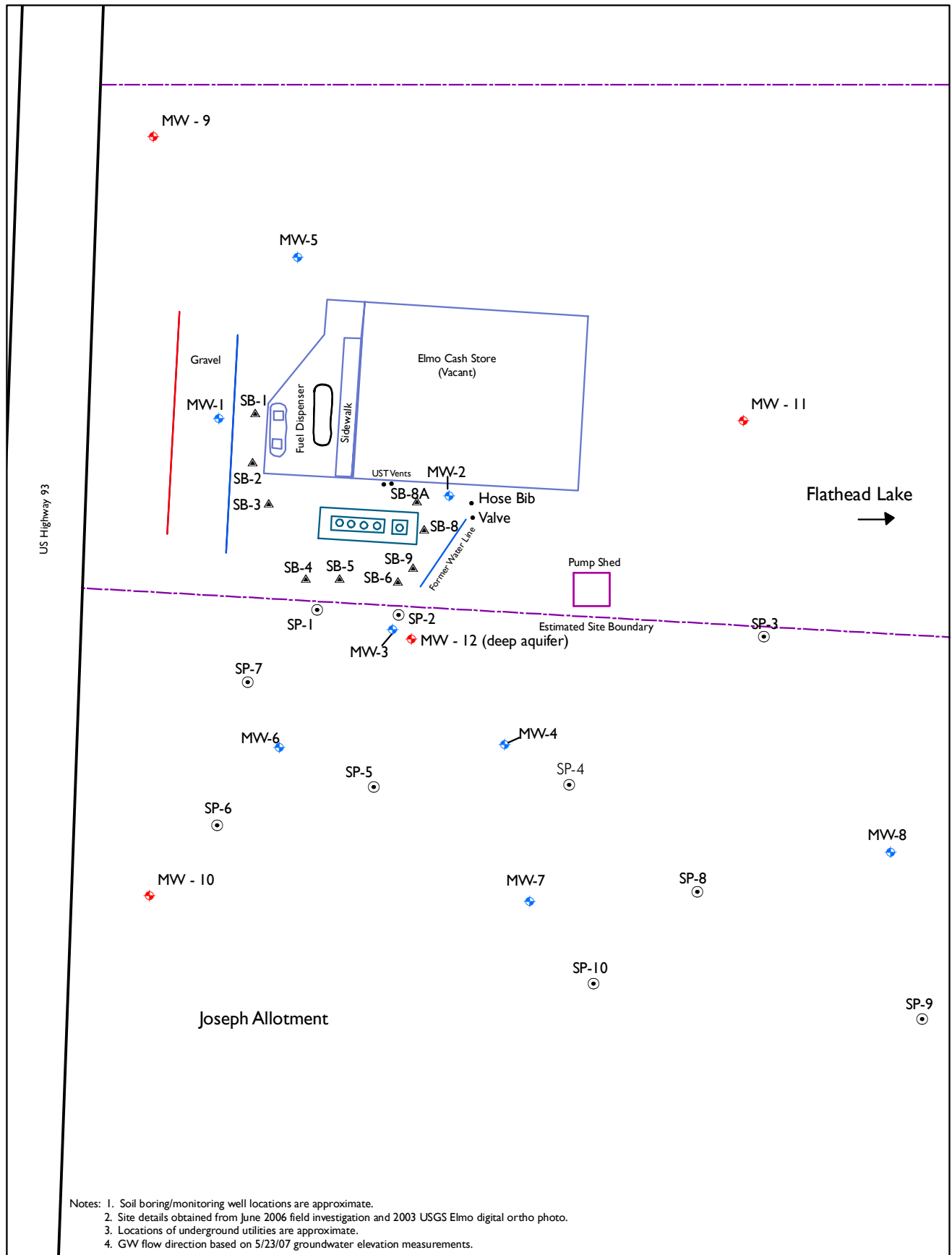


- Notes: 1. Soil boring/monitoring well locations are approximate.  
 2. Site details obtained from June 2006 field investigation and 2003 USGS Elmo digital ortho photo.  
 3. Locations of underground utilities are approximate.  
 4. GW flow direction based on 5/23/07 groundwater elevation measurements.



- 2904 — Potentiometric Line
- Telephone Line
- - - Estimated Site Boundary
- Approximate Groundwater Flow Direction
- ⊕ Existing Monitoring Well
- SP-9; 1999 Soil Boring Locations (Atlal 1999)
- Valve; UST Vents; Hose Bib
- ▲ 2006 Soil Boring Locations
- 5,200 Total purgeable hydrocarbon concentration, ug/L
- 16,037 \*Sum of select petroleum hydrocarbons detected in GW by Atlal in 1999 with field GC, ug/L

**Potentiometric Surface**  
**Elmo Cash Store**  
**77070 Highway 93**  
**Elmo, Montana**  
**FIGURE 3**



- + Existing Monitoring Well
- + Proposed Monitoring Well
- Telephone Line
- - - Estimated Site Boundary
- ⊙ SP-9; 1999 Soil Boring Locations (Atlal 1999)
- Valve; UST Vents; Hose Bib
- ▲ 2006 Soil Boring Locations

**Proposed Well Locations**  
**Elmo Cash Store**  
**77070 Highway 93**  
**Elmo, Montana**  
**FIGURE 4**

**TABLE I**  
**SUMMARY OF SOIL ANALYTICAL DATA (May 2007)**  
**Elmo Cash Store**  
**CSKT Brownfields Project**  
**Elmo, Montana**

| Volatile Petroleum Hydrocarbons |                |            |                              |             |             |              |                   |            |               |                  |                   |                  |
|---------------------------------|----------------|------------|------------------------------|-------------|-------------|--------------|-------------------|------------|---------------|------------------|-------------------|------------------|
| Location                        | Date Collected | Lead       | Total Purgeable Hydrocarbons | MTBE        | Benzene     | Ethylbenzene | Napthalene        | Toluene    | Total Xylenes | C5-C8 Aliphatics | C9-C12 Aliphatics | C9-C10 Aromatics |
| <b>MDEQ-RBSL</b>                |                | --         | --                           | <b>0.08</b> | <b>0.04</b> | <b>10</b>    | <b>9</b>          | <b>10</b>  | <b>200</b>    | <b>300</b>       | <b>500</b>        | <b>100</b>       |
| <b>EPA-PRG</b>                  |                | <b>400</b> | --                           | <b>32</b>   | <b>1.40</b> | <b>400</b>   | <b>190</b>        | <b>520</b> | <b>420</b>    | --               | --                | --               |
| MW-5 @ 8                        | 17-May-07      | <10        | <12                          | <0.03       | <0.03       | 0.13         | <0.30             | <0.06      | <0.18         | <6               | <6                | <1               |
| MW-5 @ 12                       | 17-May-07      | <10        | 200                          | <0.25       | 0.12        | 3.7          | 2.3 <sup>a</sup>  | 0.12       | 3.5           | 87               | 41                | 40               |
| MW-6@12                         | 17-May-07      | <10        | 16                           | <0.03       | <0.03       | 0.08         | 0.64 <sup>b</sup> | <0.05      | 0.28          | <5               | <5                | 4.5              |
| MW-7 @ 6                        | 17-May-07      | 15         | <13                          | <0.03       | <0.03       | 0.09         | <0.32             | <0.06      | <0.19         | <6               | <6                | <1               |
| MW-7 @ 12                       | 17-May-07      | <10        | 31                           | <0.03       | <0.03       | <0.06        | 1.4 <sup>b</sup>  | <0.06      | 0.45          | <6               | <6                | 14               |
| MW-8 @ 7                        | 17-May-07      | 10         | <13                          | <0.03       | <0.03       | <0.06        | <0.32             | <0.06      | <0.19         | <6               | <6                | <1               |

**Notes:**

Concentrations are reported in milligrams per kilogram (mg/kg).  
 All analyses completed by Northern Analytical Laboratories, Billings, MT

**Key:**

- < Less than; compound not detected above method detection limit.
- Analyte detected above one or more screening level(s).
- MDEQ-RBSL MDEQ Tier I Risk-Based Screening Level for subsurface soil (>2 ft bgs and <10 ft to groundwater)
- EPA-PRG EPA Region 9 Preliminary Remediation Goal for residential soil
- bgs below ground surface
- a confirmed the presence but not the quantity by EPA method 8260B
- b confirmatory analysis not required

**TABLE 2****GROUNDWATER ELEVATIONS: June 27, 2006 and May 23, 2007****Elmo Cash Store****CSKT Brownfields Project****Elmo, Montana**

| <b>Well</b> | <b>Measuring Point<br/>Elevation<br/>feet AMSL</b> | <b>Depth to<br/>Groundwater<br/>feet BMP (2006)</b> | <b>Groundwater<br/>Elevation<br/>feet AMSL (2006)</b> | <b>Depth to<br/>Groundwater<br/>feet BMP (2007)</b> | <b>Groundwater<br/>Elevation<br/>feet AMSL (2007)</b> |
|-------------|--|---|---|---|---|
| MW-1        | 2,908.85   | 4.08  | 2,904.77  | 4.89  | 2,903.96  |
| MW-2        | 2,908.02   | 3.70  | 2,904.32  | 6.97  | 2,901.05  |
| MW-3        | 2,907.24   | 4.28  | 2,902.96  | 7.45  | 2,899.79  |
| MW-4        | 2,906.50   | 7.81  | 2,898.69  | 13.91   | 2,892.59  |
| MW-5        | 2,909.14   | --  | --  | 5.25  | 2,903.89  |
| MW-6        | 2,907.58   | --  | --  | 7.39  | 2,900.19  |
| MW-7        | 2,906.18   | --  | --  | --  | --  |
| MW-8        | 2,904.81   | --  | --  | --  | --  |

**Notes:**

AMSL = Above mean sea level.

BMP = Below measuring point.

MW-7 and MW-8 were dry on May 23, 2007

**TABLE 3**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA (June 2006 and May 2007)**

**Elmo Cash Store**  
**CSKT Brownfields Project**  
**Elmo, Montana**

| Location               | Date Collected   | Volatile Petroleum Hydrocarbons |                              |           |                 |              |            |             |               |                  |                   |                  |
|------------------------|------------------|---------------------------------|------------------------------|-----------|-----------------|--------------|------------|-------------|---------------|------------------|-------------------|------------------|
|                        |                  | Lead                            | Total Purgeable Hydrocarbons | MTBE      | Benzene         | Ethylbenzene | Napthalene | Toluene     | Total Xylenes | C5-C8 Aliphatics | C9-C12 Aliphatics | C9-C10 Aromatics |
| <b>EPA Primary MCL</b> |                  | <b>0.015</b>                    | <b>--</b>                    | <b>--</b> | <b>5</b>        | <b>700</b>   | <b>--</b>  | <b>1000</b> | <b>10000</b>  | <b>--</b>        | <b>--</b>         | <b>--</b>        |
| <b>MDEQ-RBSL</b>       |                  | <b>0.015</b>                    | <b>1000</b>                  | <b>30</b> | <b>5</b>        | <b>700</b>   | <b>100</b> | <b>1000</b> | <b>10000</b>  | <b>800</b>       | <b>500</b>        | <b>1000</b>      |
| MW-1                   | 27-Jun-06        | 0.0023                          | 5200                         | <5        | 13              | 210          | 52         | 6           | 120           | 3100             | <200              | 1900             |
|                        | 24-May-07        | <0.0005                         | 4800                         | <20       | 45 <sup>a</sup> | 410          | 78         | 24          | <30           | 3100             | <400              | 1400             |
|                        | 5/24/2007 (dup.) | <0.0005                         | 4400                         | <20       | 19              | 340          | 82*        | 20          | <60           | 2700             | <400              | 1600             |
| MW-2                   | 27-Jun-06        | 0.006                           | 15000                        | <25       | 880             | 200          | 310        | 180         | 2400          | 4400             | 900               | 3700             |
|                        | 24-May-07        | 0.0026                          | 9000                         | <20       | 580 HT          | 110          | 120*       | 200         | 790           | 5800             | <400              | 1500             |
| MW-3                   | 27-Jun-06        | 0.011                           | 36000                        | <25       | 4500            | 630          | 300        | 3900        | 5000          | 17000            | <400              | 5300             |
|                        | 6/27/2006 (dup.) | 0.010                           | 37000                        | <25       | 4600            | 670          | 330        | 3900        | 5100          | 18000            | <400              | 5000             |
|                        | 24-May-07        | 0.0042                          | 32000                        | <20       | 4100 HT         | 350          | 140        | 1300        | 1800          | 22000            | 2500              | 2000             |
| MW-4                   | 27-Jun-06        | 0.018                           | 31000                        | <25       | 2400            | 870          | 320        | 3500        | 5000          | 11000            | <400              | 6300             |
|                        | 24-May-07        | NA                              | 13000                        | <20       | 630             | 110          | <50        | 580         | 850           | 9900             | <400              | 1100             |
| MW-5                   | 23-May-07        | <0.0005                         | 9700                         | <20       | 280             | 810          | 170*       | 30          | 180           | 5400             | <400              | 2800             |
| MW-6                   | 24-May-07        | 0.0023                          | 6400                         | <20       | 150 HT          | 250          | 92*        | 98          | 430           | 4300             | <400              | 1500             |

**Notes:**

Concentrations are reported in micrograms per liter (µg/L) except for lead (mg/L).  
 All analyses completed by Northern Analytical Laboratories, Billings, MT  
 NA - not analyzed due to insufficient water in well  
 a - value is an estimate (duplicate value relative percent difference was greater than the required 35%)

**Key:**

- < Less than; compound not detected above method detection limit.
- Analyte detected above the MDEQ screening level or EPA primary maximum contaminant level 1
- \* No confirmation analysis performed
- MDEQ-RBSL MDEQ Tier I Risk-Based Screening Level for groundwater
- bgs below ground surface
- HT Concentration determined after the holding time had passed

**APPENDIX A  
LITHOLOGIC LOGS**





**WELL LITHOLOGIC AND COMPLETION LOG**

JOB NO: 12454.002

WELL NO: **MW-6**

PROJECT: CSKT-Elmo

STATE: MT

COUNTY: Lake

LOGGED BY: ANJ

LEGAL LOCATION:  
T R S TRACT

DESCRIPTIVE LOCATION: Approx. 90 ft. South of dispenser island and 90 ft. East of US Hwy 93

DATE STARTED: 5/17/2007

DATE COMPLETED: 5/17/2007

DRILLING CO/ DRILLER: Enviroprobe/Gary Latta

DRILLING METHOD: direct push (Geoprobe)

BOREHOLE DIAM (IN): 2

DRILL FLUIDS USED: NA

TOTAL DEPTH DRILLED: 14

TOTAL DEPTH CASED: 12

INTERVAL PERFORATED FROM OR SCREENED (FT.): 7  
12

DIAMETER: 1"  
CASING TYPE: PVC

METHOD OF PERFORATION:  
 Open Hole  
 Open Bottom  
 Saw Slotted  
 Factory \_\_\_ (size) 0.01  
 Other: Roller Perf tool 1/2" x 1"; 4 rows

DURING WELL CONSTRUCTION WAS/WERE:  
 Well Developed  
 Well Pumped  
 Water Samples Collected  
 Material Samples Collected

| YES                                 | NO                                  |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**ANNULAR COMPLETION CHARACTERISTICS**

WELL PROTECTOR: LENGTH: NA  
DIAM: \_\_\_\_\_

SURFACE SEAL TYPE: cement FROM: \_\_\_\_\_ TO: \_\_\_\_\_  
BACKFILL MATERIAL: \_\_\_\_\_ FROM: \_\_\_\_\_ TO: \_\_\_\_\_

LOCK NO: NA

HOLE PLUG: bentonite FROM: 0 TO: 6  
FILTER PACK TYPE: 10-20 sand FROM: 6 TO: 12

STATIC WATER LEVEL: dry DATE: 5/17/2007

MEASURING POINT DESCRIPTION/ ELEVATION: Top of PVC

MEASURING POINT RELATIVE TO GROUND SURFACE (+/-) -0.25

REMARKS: Flush mount with cement seal

| INTERVAL(FT)         | LITHOLOGIC DESCRIPTION USCS NAME ( USCS symbol): color, moist, % by weight, plasticity, consistency, structure, cementation, geology                                    | REMARKS                              |
|----------------------|---|--------------------------------------|
| below ground surface |   |                                      |
| 0-2                  | ML-Dark brown silt; topsoil; moist; roots; yellowish brown (10R 2/2)  | 0.0 ppm @ 2 ft.                      |
| 2-4                  | ML-Silt; hard   | 0.5 ppm @ 4 ft.                      |
| 4-4.5                | GP-Gravel and cobbles (angular gravel)  | 0.3 ppm @ 6 ft.                      |
| 4.5-12               | ML-Silt; pale yellowish brown; hard; orange and brown mottling; contains small amounts of sand and fine gravel; saturated (moist, not wet) at 7-8 ft., wetter at 12 ft. | 0.5 ppm @ 8 ft.<br>0.5 ppm @ 10 ft.  |
| 12-14                | ML-Silt with gravel; pale yellowish brown (10YR 6/2); petroleum odor; moist but dryer than 8-12 ft. interval; contains rounded gravel and cobble pieces                 | 85 ppm @ 12 ft.<br>24.0 ppm @ 13 ft. |
|                      |   |                                      |
|                      |   |                                      |
|                      |   |                                      |
|                      |   |                                      |
|                      |   |                                      |
|                      |   |                                      |
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|                      |   |                                      |
|                      |   |                                      |





**WELL LITHOLOGIC AND COMPLETION LOG**

JOB NO: 12454.002

WELL NO: **MW-8**

PROJECT: CSKT-Elmo

STATE: MT

COUNTY: Lake

LOGGED BY: ANJ

LEGAL LOCATION:  
T R S TRACT

DESCRIPTIVE LOCATION:

DATE STARTED: 5/17/2007

DATE COMPLETED: 5/17/2007

DRILLING CO/ DRILLER: Enviroprobe/Gary Latta

DRILLING METHOD: direct push (Geoprobe)

BOREHOLE DIAM (IN): 2

DRILL FLUIDS USED: NA

TOTAL DEPTH DRILLED: 11

TOTAL DEPTH CASSED: 10

INTERVAL PERFORATED FROM OR SCREENED (FT.): 5 / 10

DIAMETER: 1"  
CASING TYPE: PVC

METHOD OF PERFORATION:  
 Open Hole  
 Open Bottom  
 Saw Slotted  
 Factory \_\_\_ (size) 0.01  
 Other: Roller Perf tool 1/2" x 1"; 4 rows

DURING WELL CONSTRUCTION WAS/WERE:

|                            | YES | NO |
|----------------------------|-----|----|
| Well Developed             |     | X  |
| Well Pumped                |     | X  |
| Water Samples Collected    |     | X  |
| Material Samples Collected | X   |    |

**ANNULAR COMPLETION CHARACTERISTICS**

WELL PROTECTOR: LENGTH: \_\_\_\_\_  
DIAM: \_\_\_\_\_

|                    |            |         |        |
|--------------------|------------|---------|--------|
| SURFACE SEAL TYPE: | cement     | FROM:   | TO:    |
| BACKFILL MATERIAL: |            | FROM:   | TO:    |
| HOLE PLUG:         | bentonite  | FROM: 0 | TO: 4  |
| FILTER PACK TYPE:  | 10-20 sand | FROM: 4 | TO: 11 |

LOCK NO: NA

STATIC WATER LEVEL: dry DATE: 5/17/2007

MEASURING POINT DESCRIPTION/ ELEVATION: Top of PVC

MEASURING POINT RELATIVE TO GROUND SURFACE (+/-) -0.25

REMARKS: Flush mount

| INTERVAL(FT)         | LITHOLOGIC DESCRIPTION USCS NAME ( USCS symbol): color, moist, % by weight, plasticity, consistency, structure, cementation, geology   | REMARKS                            |
|----------------------|--|------------------------------------|
| below ground surface |  |                                    |
| 0-0.5                | Topsoil-Dark brown silt with roots   | 0.3 ppm @ 3 ft.                    |
| 0.5-7                | CL-ML-Clayey silt; low plasticity; pale yellowish brown (10YR 6/2); orange mottling/Fe-Ox staining; contains sub angular to subrounded gravel/cobbles; medium hardness; wet from 6-7 ft. | 0.3 ppm @ 7 ft.<br>0.3 ppm @ 8 ft. |
| 7-9                  | CL-ML-Silt with clay (hard); light brownish gray (5YR 6/1); hard drilling  |                                    |
| 9-10.5               | CL-ML-As above (0.5-7)   | 0.4 ppm @ 10 ft.                   |
| 10.5-11              | Mixture of CL-ML and light green crushed, angular gravel (refusal at 11 ft.)   | 0.3 ppm @ 12 ft.                   |
|                      |  |                                    |
|                      |  |                                    |
|                      |  |                                    |
|                      |  |                                    |
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|                      |  |                                    |
|                      |  |                                    |

**APPENDIX B**  
**LABORATORY ANALYTICAL REPORTS**

REPORT TO: ATTN: MATT WRIGHT  
GEO-MATRIX CONSULTANTS, INC.  
1001 S. HIGGINS AVE.  
MISSOULA, MT 59801

DATE: June 21, 2007  
JOB NUMBER: 05-922-1  
PAGE: 1 of 16  
INVOICE NO.: 7050229

REPORT OF: Water Analysis – CSKT-Elmo – Project No. 12454

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**CASE NARRATIVE:**

On May 26, 2007, these water samples (laboratory numbers 2007050229-1 through -7) were received in our laboratory for analysis. Tests were conducted in accordance with Massachusetts Department of Environmental Protection "Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)" Jan. 1998; and EPA/600/R-94-111 "Methods for the Determination of Metals in Environmental Samples", Supplement I.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the practical quantitation limit (PQL) for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

**NOTE:** For several samples, the benzene concentration determined within the holding time was in excess of the calibration curve. The results of a second analysis, performed after the holding time had passed, are reported herein.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed. Chromatograms are attached for your reference.

A second column confirmation of BETXMN results was performed.

Footnotes used in this report include the following:

HT- The concentration was determined after the holding time had passed.

(7) A confirmation analysis was not performed for this analyte.

Reviewed by



Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody  
Sample Receipt Checklist

nct

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-1   | Description: MW-1          | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>METALS</b>                               |                |            |             |                  |
| Lead as Pb (Dissolved)                      | <0.0005        | mg/l       | 200.8       | 06/04/2007       |
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 4800           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 45             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | 410            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 78 (7)         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 24             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | <30            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 3200           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 1500           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 3100           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 1400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 89             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 87             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ----       | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-2   | Description: MW-2          | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>METALS</b>                               |                |            |             |                  |
| Lead as Pb (Dissolved)                      | 0.0026         | mg/l       | 200.8       | 06/04/2007       |
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 9000           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 580 HT         | ug/l       | MDEP-VPH-98 | 06/09/2007       |
| Ethylbenzene                                | 110            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 120 (7)        | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 200            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 790            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 6600           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 2400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 5800           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 1500           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 115            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 108            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ----       | MDEP-VPH-98 | 06/02/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-3   | Description: MW-3          | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>METALS</b>                               |                |            |             |                  |
| Lead as Pb (Dissolved)                      | 0.0042         | mg/l       | 200.8       | 06/04/2007       |
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 32,000         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 4100 HT        | ug/l       | MDEP-VPH-98 | 06/09/2007       |
| Ethylbenzene                                | 350            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 200 (7)        | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 1300           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 1800           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 27,000         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 6700           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 22,000         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | 2500           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 2000           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 92             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | (1)            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | —          | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | —          | MDEP-VPH-98 | 06/02/2007       |

# Northern Analytical Laboratories, Inc.

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-4   | Description: MW-4          | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 13,000         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 630            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | 110            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | <50            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 580            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 850            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 11,000         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 2200           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 9900           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 1100           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 106            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 100            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-5   | Description: MW-5          | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/23/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>METALS</b>                               |                |            |             |                  |
| Lead as Pb (Dissolved)                      | <0.0005        | mg/l       | 200.8       | 06/04/2007       |
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 9700           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 280            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | 810            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 170 (7)        | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 30             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 180            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 5700           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 3600           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 5400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 2800           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 110            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 109            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |

# Northern Analytical Laboratories, Inc.

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-6   | Description: MW-6          | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>METALS</b>                               |                |            |             |                  |
| Lead as Pb (Dissolved)                      | 0.0023         | mg/l       | 200.8       | 06/04/2007       |
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 6400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 150 HT         | ug/l       | MDEP-VPH-98 | 06/09/2007       |
| Ethylbenzene                                | 250            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 92 (7)         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 98             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 430            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 4600           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 1800           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 4300           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 1500           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 109            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 91             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |               |
|----------------------------|----------------------------|---------------|
| Sample No.: 2007050229-7   | Description: MW-13         | Matrix: WATER |
| Date Received: 05/26/2007  |                            |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>METALS</b>                               |                |            |             |                  |
| Lead as Pb (Dissolved)                      | <0.0005        | mg/l       | 200.8       | 06/04/2007       |
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 4400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 19             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | 340            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 82 (7)         | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 20             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | <60            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 2700           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 1600           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | 2700           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <400           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | 1600           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 89             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 84             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | —          | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | —          | MDEP-VPH-98 | 06/02/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |  |               |
|----------------------------|--|---------------|
| Sample No.: 2007050229-8   | Description: DUPLICATE OF 2007050229-1 | Matrix: WATER |
| Date Received: 05/26/2007  |  |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON             |               |

| Laboratory Test        | Measured Value | Test Units | Test Method | Date of Analysis |
|------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>          |                |            |             |                  |
| Lead as Pb (Dissolved) | <0.0005        | mg/l       | 200.8       | 06/04/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |   |               |
|----------------------------|---|---------------|
| Sample No.: 2007050229-9   | Description: MATRIX SPIKE OF 2007050229-6 | Matrix: WATER |
| Date Received: 05/26/2007  |   |               |
| Date Collected: 05/24/2007 | Collected by: ADAM JOHNSON                |               |

| Laboratory Test        | Measured Value | Test Units | Test Method | Date of Analysis |
|------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>          |                |            |             |                  |
| Lead as Pb (Dissolved) | 88             | % [82-114] | 200.8       | 06/04/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                                  |                                      |                      |
|----------------------------------|--------------------------------------|----------------------|
| <b>Sample No.:</b> 2007050229-10 | <b>Description:</b> METHOD BLANK     | <b>Matrix:</b> WATER |
| <b>Date Received:</b> —          |                                      |                      |
| <b>Date Collected:</b> —         | <b>Collected by:</b> PREPARED BY LAB |                      |

| Laboratory Test        | Measured Value | Test Units | Test Method | Date of Analysis |
|------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>          |                |            |             |                  |
| Lead as Pb (Dissolved) | <0.0005        | mg/l       | 200.8       | 06/04/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                           |  |               |
|---------------------------|--|---------------|
| Sample No.: 2007050229-11 | Description: LABORATORY CONTROL SAMPLE | Matrix: WATER |
| Date Received: ----       |  |               |
| Date Collected: ----      | Collected by: PREPARED BY LAB          |               |

| Laboratory Test        | Measured Value | Test Units | Test Method | Date of Analysis |
|------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>          |                |            |             |                  |
| Lead as Pb (Dissolved) | 96             | % [86-113] | 200.8       | 06/04/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH WATER QUALITY CONTROL

Sample No.: 2007050006-61 Description: METHOD BLANK; VPH BATCH 8387 Matrix: WATER

Date Received: ----

Date Collected: ----- Collected by: PREPARED BY LAB

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | <200           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | <1             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | <1             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | <2             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | <5             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | <1             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | <3             | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | <100           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | <100           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | <100           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C12 Aliphatics                           | <100           | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| C9-C10 Aromatics                            | <20            | ug/l       | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 89             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 82             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH WATER QUALITY CONTROL

|                           |   |               |
|---------------------------|---|---------------|
| Sample No.: 2007050006-62 | Description: LABORATORY CONTROL SAMPLE; | Matrix: WATER |
| Date Received: ----       | VPH BATCH 8387                          |               |
| Date Collected: -----     | Collected by: PREPARED BY LAB           |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 112            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Benzene                                     | 106            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Ethylbenzene                                | 105            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Methyl-tert-butyl ether                     | 116            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Naphthalene                                 | 124            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Toluene                                     | 119            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Total Xylenes                               | 104            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Unadjusted C5-C8 Aliphatics                 | 117            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| Unadjusted C9-C12 Aliphatics                | 102            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| C5-C8 Aliphatics                            | NA             | ---        | ---         | ---              |
| C9-C12 Aliphatics                           | NA             | ---        | ---         | ---              |
| C9-C10 Aromatics                            | 108            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| PID Surrogate Recovery                      | 104            | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| FID Surrogate Recovery                      | 89             | % [70-130] | MDEP-VPH-98 | 06/01/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/01/2007       |
| VPH Aliph. Batch Number                     | 8387           | ----       | MDEP-VPH-98 | 06/01/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH WATER QUALITY CONTROL

|                            |  |               |
|----------------------------|--|---------------|
| Sample No.: 2007050006-63  | Description: MATRIX SPIKE OF 2007050229-7; | Matrix: WATER |
| Date Received: 05/26/2007  | VPH BATCH 8387                             |               |
| Date Collected: 05/23/2007 | Collected by: CLIENT                       |               |

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 114            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 113            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | 111            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | 127            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 129            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 118            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 105            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 119            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 104            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | NA             | ---        | ---         | ---              |
| C9-C12 Aliphatics                           | NA             | ---        | ---         | ---              |
| C9-C10 Aromatics                            | 84             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 103            | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 82             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH WATER QUALITY CONTROL

Sample No.: 2007050006-64      Description: DUPLICATE OF 2007050229-7; VPH      Matrix: WATER  
 Date Received: 05/26/2007      BATCH 8387  
 Date Collected: 05/24/2007      Collected by: CLIENT

| Laboratory Test                             | Measured Value | Test Units | Test Method | Date of Analysis |
|---|----------------|------------|-------------|------------------|
| <b>VPH IN WATER BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Total Purgeable Hydrocarbons                | 4              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Benzene                                     | 0              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Ethylbenzene                                | 3              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Methyl-tert-butyl ether                     | 0              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Naphthalene                                 | 0              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Toluene                                     | 0              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Total Xylenes                               | 0              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C5-C8 Aliphatics                 | 4              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| Unadjusted C9-C12 Aliphatics                | 4              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| C5-C8 Aliphatics                            | NA             | ---        | ---         | ---              |
| C9-C12 Aliphatics                           | NA             | ---        | ----        | ----             |
| C9-C10 Aromatics                            | 2              | RPD [0-50] | MDEP-VPH-98 | 06/02/2007       |
| PID Surrogate Recovery                      | 91             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| FID Surrogate Recovery                      | 84             | % [70-130] | MDEP-VPH-98 | 06/02/2007       |
| VPH Arom. Batch Number                      | 8387           | ---        | MDEP-VPH-98 | 06/02/2007       |
| VPH Aliph. Batch Number                     | 8387           | ----       | MDEP-VPH-98 | 06/02/2007       |

CKI - EXMO

Project or Site Name  
 12454  
 Project Number  
 Adam Johnson  
 Sampler Name (Printed)  
 Adam Johnson  
 Project Manager, Report to

CHAIN OF CUSTODY RECORD



602 South 25th Street  
 Billings, Montana 59101  
 Ph: 406-254-7226 • Fax: 406-254-1389  
 nlabs@wip.net

Geomatrix  
 Report to (Firm or Agency)  
 1001B S. Higgins  
 Address  
 Missoula MT 59801  
 City State Zip  
 406 542-0129 542-0130  
 Phone Fax

| DATE COLLECTED                | TIME COLLECTED | SAMPLE LOCATION OR DESCRIPTION | COMP OR GRAB | SAMPLE MATRIX | NO. OF CONTAINERS | ANALYSIS REQUIRED            |     | NOTES         | LAB NUMBER     |  |
|-------------------------------|----------------|--------------------------------|--------------|---------------|-------------------|------------------------------|-----|---------------|----------------|--|
|                               |                |                                |              |               |                   | DISP                         | VPH |               |                |  |
| 5/24/07                       | 1500           | MW-1                           | G            | W             | 4                 | X                            | X   | VPH by        | 2007<br>050229 |  |
|                               | 1915           | MW-2                           |              |               | 4                 | X                            | X   | MDEP (VPH-98) | 100<br>542     |  |
|                               | 1710           | MW-3                           |              |               | 4                 | X                            | X   | method        | 3              |  |
|                               | 1015           | MW-4                           |              |               | 2                 | X                            | X   |               | 4              |  |
| 5/23/07                       | 1135           | MW-5                           |              |               | 4                 | X                            | X   |               | 5              |  |
| 5/24/07                       | 1130           | MW-6                           |              |               | 4                 | X                            | X   |               | 6              |  |
| 5/24/07                       | 1510           | MW-13                          |              |               | 4                 | X                            | X   |               | 7              |  |
|                               |                |                                |              |               |                   |                              |     | Dupl          | 8              |  |
|                               |                |                                |              |               |                   |                              |     | Spec          | 9              |  |
|                               |                |                                |              |               |                   |                              |     | MB            | 10             |  |
|                               |                |                                |              |               |                   |                              |     | LCS           | 11             |  |
| Relinquished by: Adam Johnson |                |                                |              |               |                   | Received by:                 |     |               |                |  |
| Relinquished by: BEO          |                |                                |              |               |                   | Received by: Eric S. Johnson |     |               |                |  |
| Relinquished by:              |                |                                |              |               |                   | Received by:                 |     |               |                |  |

**SAMPLE RECEIPT CHECKLIST**

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

|                        |                                      |                    |                               |
|------------------------|--------------------------------------|--------------------|-------------------------------|
| Client Name            | <u>Geomatrix</u>                     | Date/Time Received | <u>5/26/07</u><br>Date / Time |
| Project                | <u>CSKT-Elmer</u>                    | Received by        | <u>ES</u>                     |
| Laboratory Number(s)   | <u>050229</u>                        | Carrier Name       | <u>Buo</u>                    |
| Checklist Completed by | <u>MW 5/29/07</u><br>Initials / Date | Sample Type        | <u>H2O</u>                    |

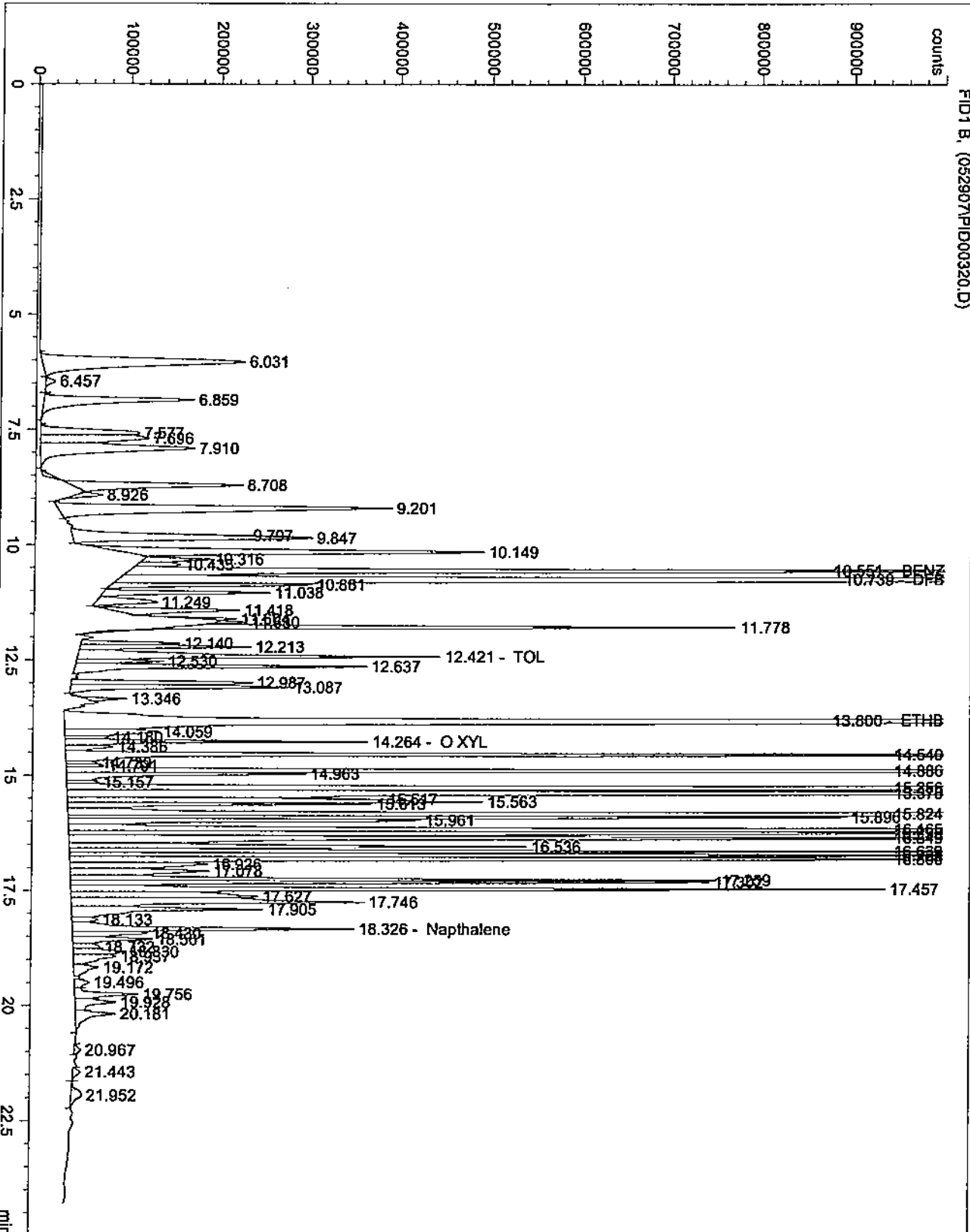
|  |  | YES                                 | NO                                  |   |  | YES                                 | NO                       |
|--|--|-------------------------------------|-------------------------------------|---|--|-------------------------------------|--------------------------|
| 1. Shipping container in good condition?   |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 14. pH check performed by: <u>MW</u>                      |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. Custody seals present on shipping container?<br>Condition: Intact <input checked="" type="checkbox"/> Broken <input type="checkbox"/> |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 15. Metals bottle(s) pH <2?                               |  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Chain of custody present?   |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 16. Nutrient bottle(s) pH <2?                             |  | <u>NA</u>                           | <input type="checkbox"/> |
| 4. Chain of custody signed when relinquished and received?   |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 17. Cyanide bottle(s) pH >12?                             |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 5. Chain of custody agrees with sample labels?   |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 18. Sulfide bottle(s) pH >9?                              |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 6. Custody seals on sample bottles?<br>Condition: Intact <input type="checkbox"/> Broken <input checked="" type="checkbox"/>             |  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 19. TOC bottle(s) pH <2?                                  |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 7. Samples in proper container/bottle?*  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 20. Phenolics bottle(s) pH <2?                            |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8. Sample containers intact?*  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 21. Oil & grease bottle(s) pH <2?<br>(checked by analyst) |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 9. Sufficient sample volume for indicated test?*   |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 22. EPH/DRO bottle(s) pH <2?<br>(checked by analyst)      |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 10. Ice/Frozen Blue Ice present in shipping container? (circle one)  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 23. Volatiles (VOA) pH <2?<br>(checked by analyst)        |  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| container temperature 1. <u>6.0°C</u> 2. _____ 3. _____  |  |                                     |                                     | 24. Semivolatiles (525) pH <2?<br>(checked by analyst)    |  | <u>NA</u>                           | <input type="checkbox"/> |
| * (if <0 or >10)   |  |                                     |                                     | 25. Other test types                                      |  | <input type="checkbox"/>            | <input type="checkbox"/> |
| 11. All samples rec'd within holding time?*  |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 26. Client contacted?                                     |  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12. VOA vials have zero headspace?<br>* (if contains >5mm headspace)   |  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 27. Person contacted                                      |  | <u>APAM</u>                         | <input type="checkbox"/> |
| 13. Trip Blank received?   |  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 28. Date contacted  |  | <u>5/29/07</u>                      | <input type="checkbox"/> |

**NOTES:** Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.

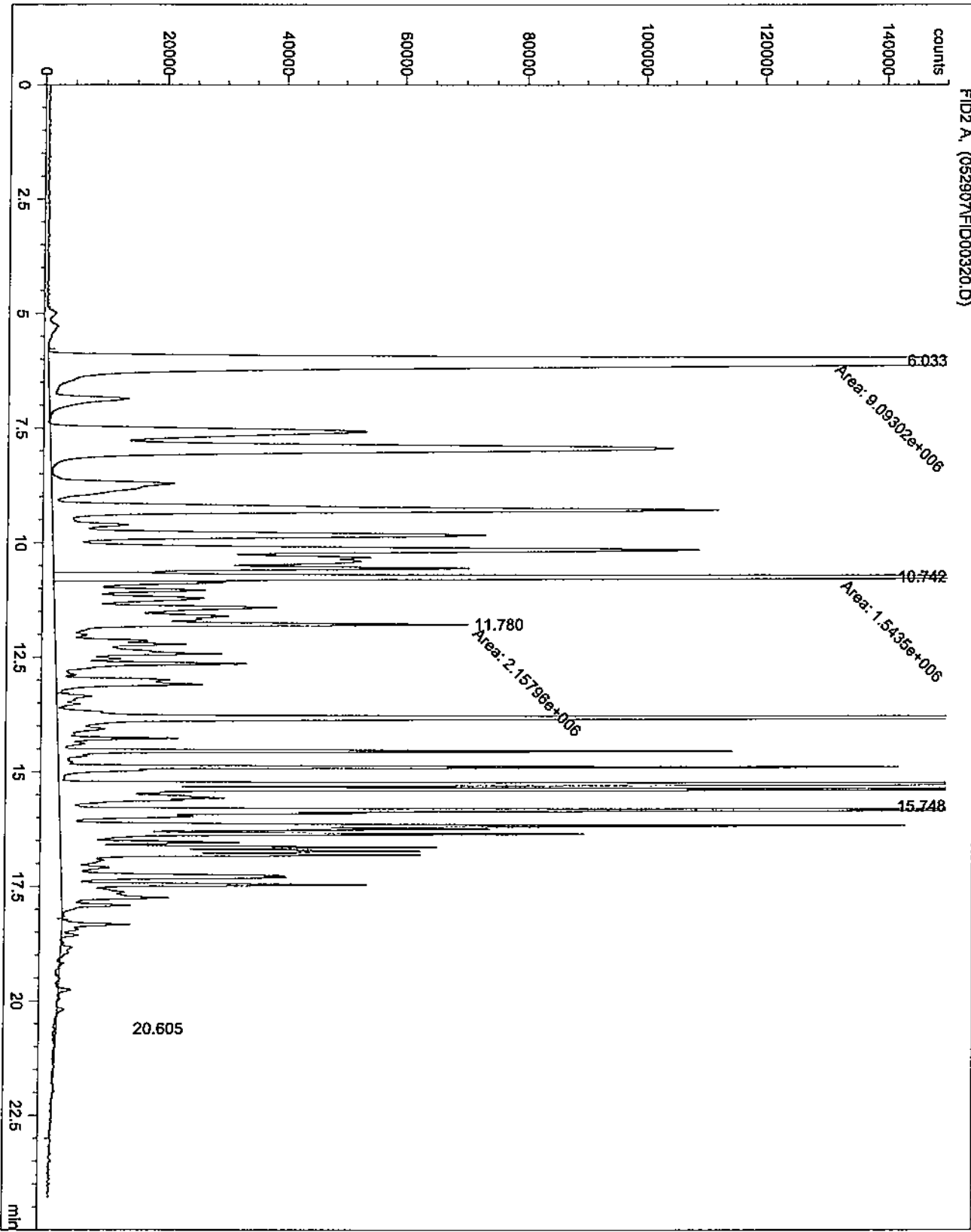
\* Critical item - if marked "NO" contact lab manager.

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

=====  
Injection Date : 6/2/07 2:21:54 AM                   Seq. Line : 111  
Sample Name : 50229-1 x10                            Vial : 105  
Acq. Operator : LD                                    Inj : 1  
  Inj Volume : Manually  
  
Acq. Method : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed : 12/5/06 9:23:57 AM by LD  
Analysis Method : C:\HPCHEM\1\METHODS\051507LD.M  
Last changed : 6/5/07 7:54:49 AM by LD  
  (modified after loading)  
=====



=====  
Injection Date : 6/2/07 2:21:54 AM                   Seq. Line : 111  
Sample Name    : 50229-1 x10                         Vial : 306  
Acq. Operator  : LD                                   Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\VPH.M  
Last changed   : 6/5/07 9:01:31 AM by LD  
  (modified after loading)  
=====

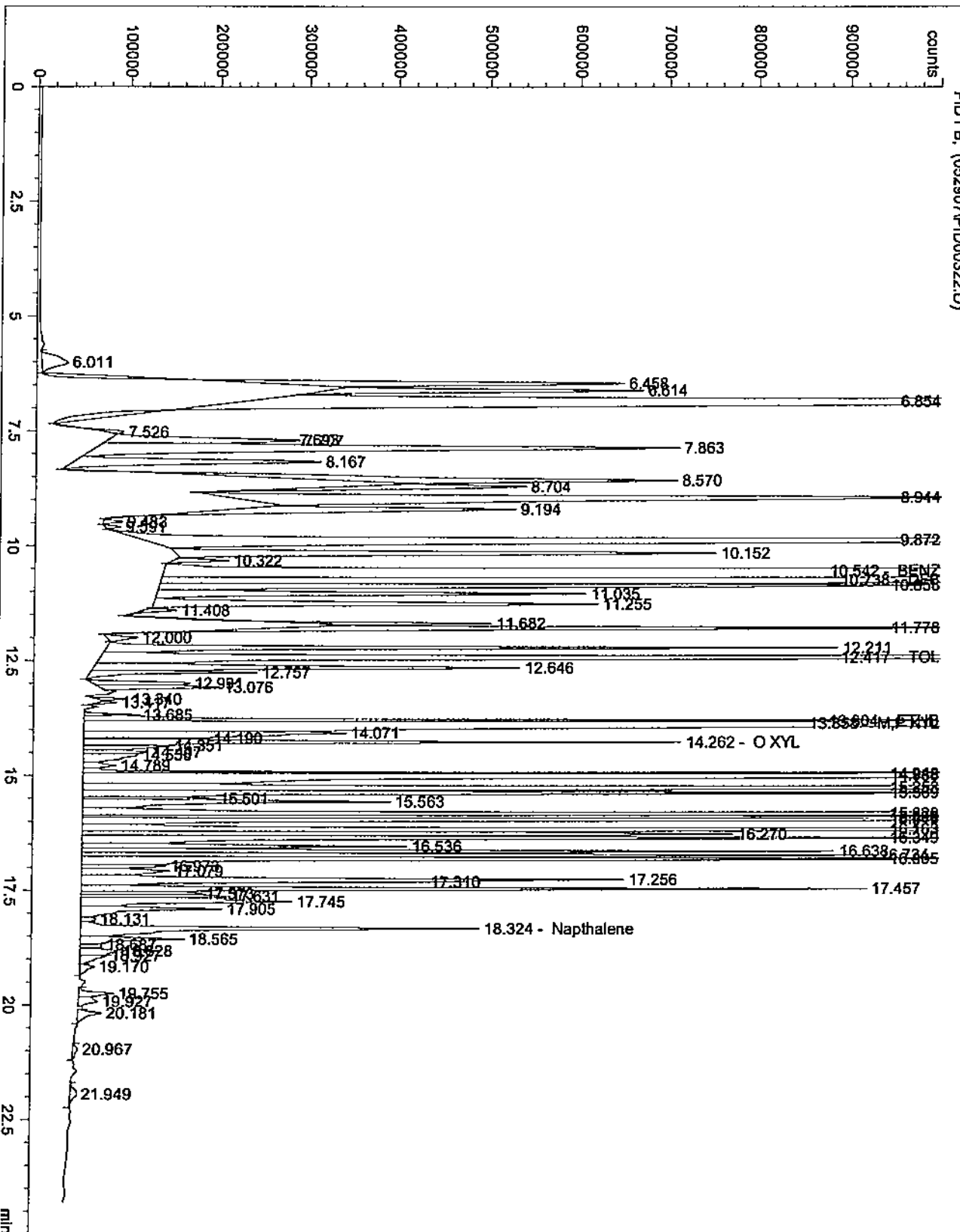


```

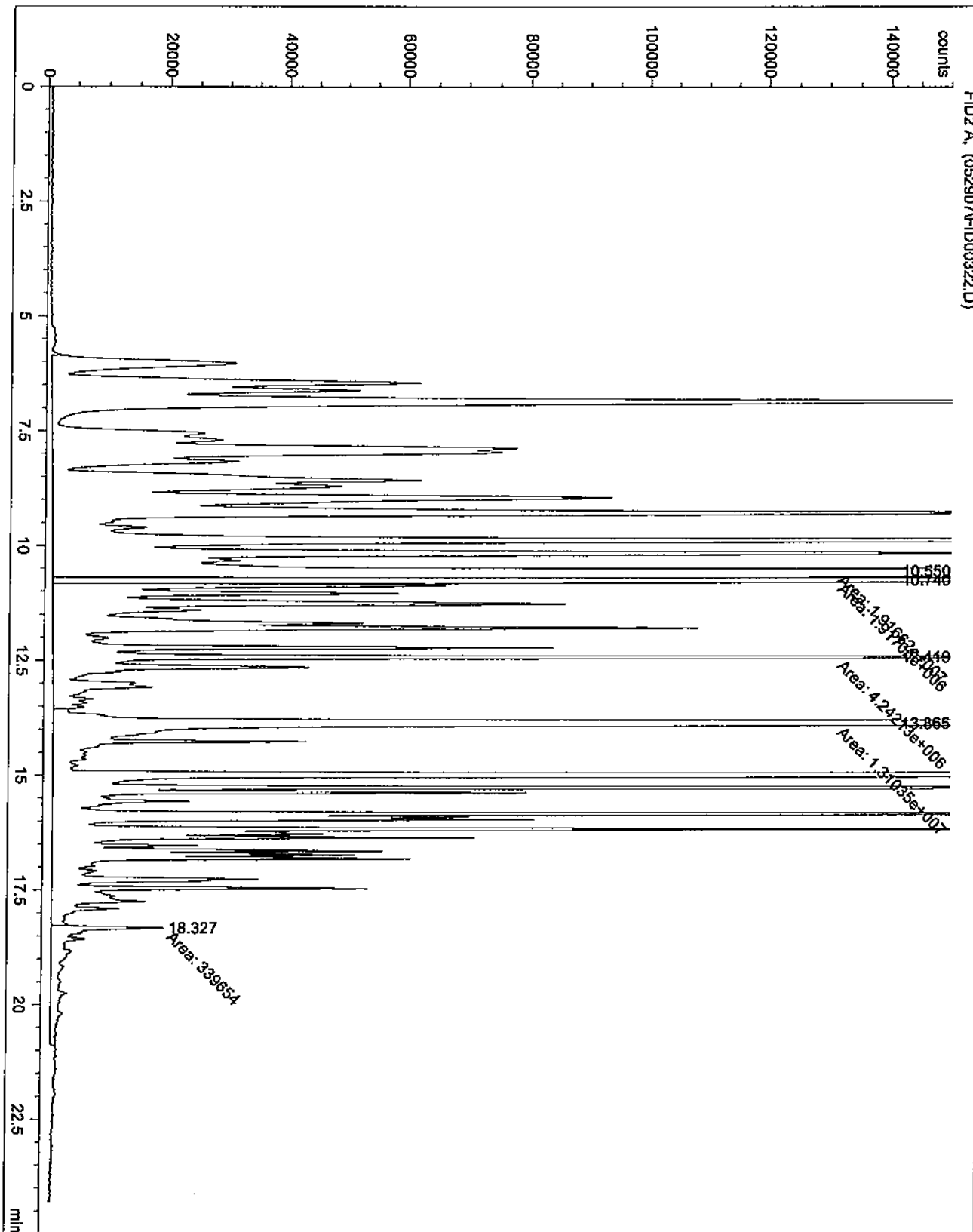
=====
Injection Date   : 6/2/07 3:40:04 AM           Seq. Line : 113
Sample Name     : 50229-2 x10                 Vial      : 107
Acq. Operator  : LD                          Inj       : 1
                                           Inj Volume: Manually

Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed   : 12/5/06 9:23:57 AM by LD
Analysis Method: C:\HPCHEM\1\METHODS\051507LD.M
Last changed   : 6/5/07 7:54:49 AM by LD
                (modified after loading)
=====

```



=====  
Injection Date : 6/2/07 3:40:04 AM                   Seq. Line : 113  
Sample Name : 50229-2 x10                            Vial : 308  
Acq. Operator : LD                                    Inj : 1  
  Inj Volume : Manually  
  
Acq. Method : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed : 12/5/06 9:23:57 AM by LD  
Analysis Method : C:\HPCHEM\1\METHODS\VPH.M  
Last changed : 6/14/07 8:25:03 AM by LD  
  (modified after loading)  
=====

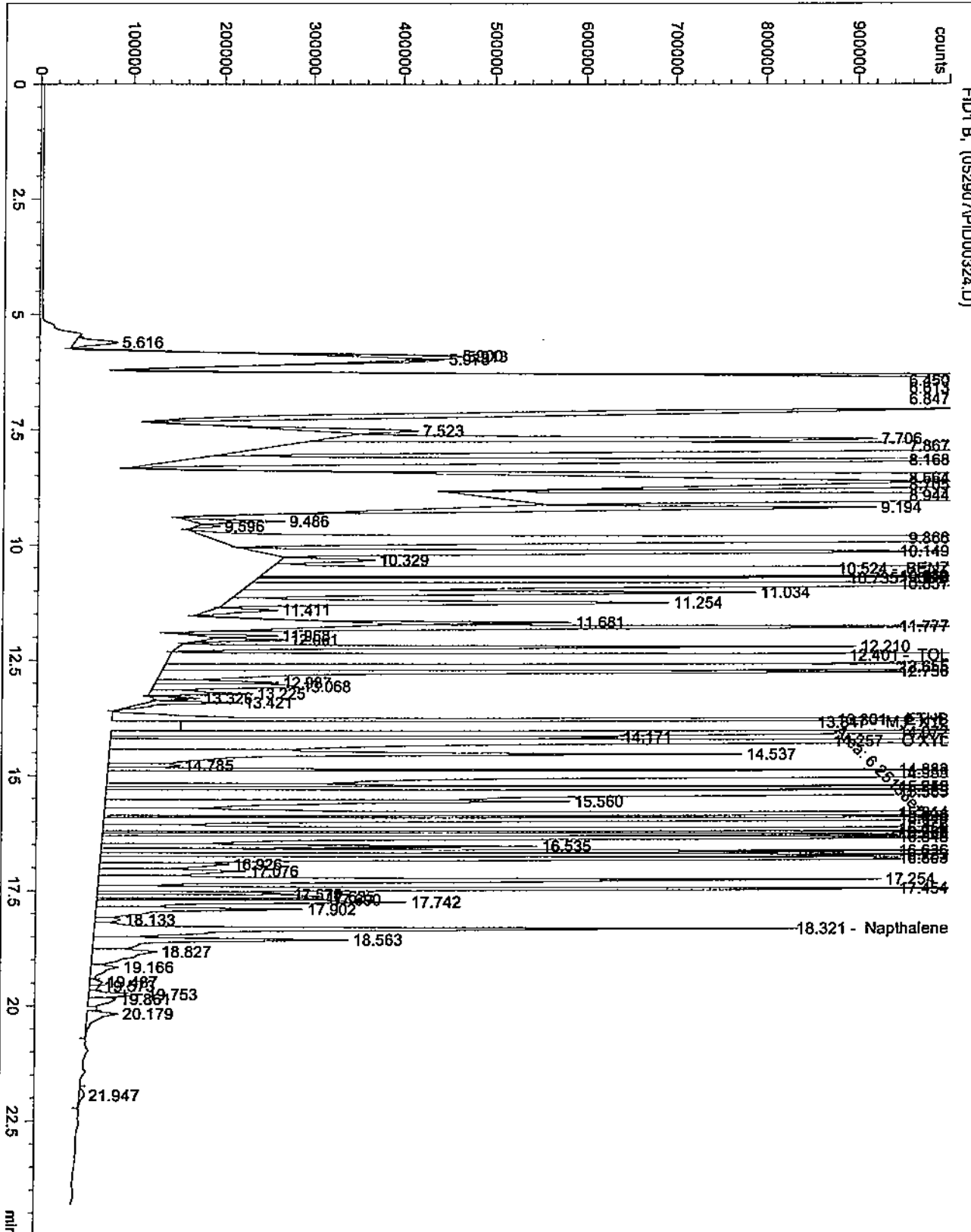


```

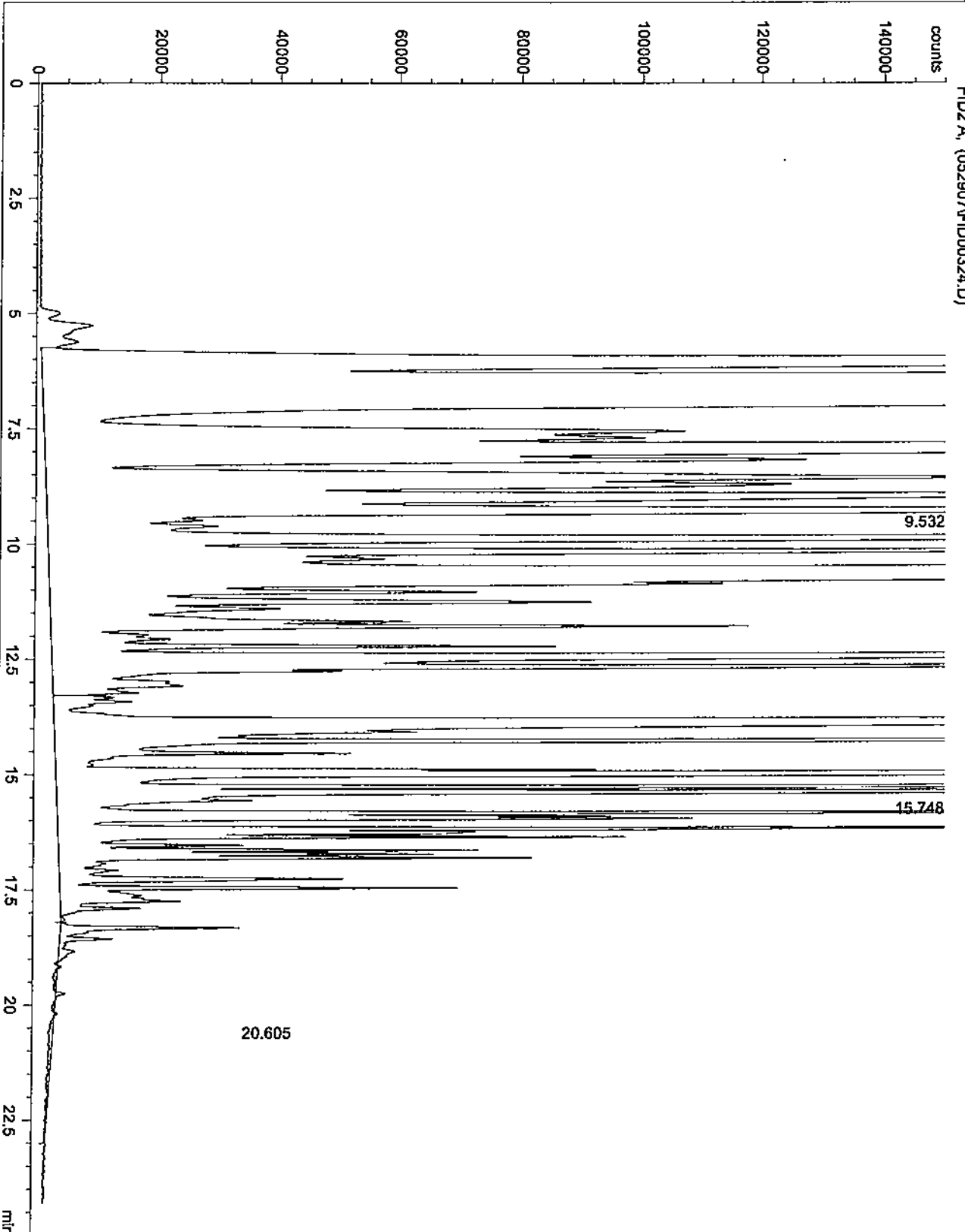
=====
Injection Date   : 6/2/07 4:58:15 AM           Seq. Line : 115
Sample Name     : 50229-3 x10                 Vial      : 109
Acq. Operator   : LD                         Inj       : 1
                                           Inj Volume: Manually

Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed   : 12/5/06 9:23:57 AM by LD
Analysis Method: C:\HPCHEM\1\METHODS\051507LD.M
Last changed   : 6/5/07 7:54:49 AM by LD
                (modified after loading)
=====

```



=====  
Injection Date : 6/2/07 4:58:15 AM                   Seq. Line : 115  
Sample Name    : 50229-3 x10                         Vial : 310  
Acq. Operator  : LD                                   Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\VPH.M  
Last changed   : 6/5/07 9:01:31 AM by LD  
  (modified after loading)  
=====

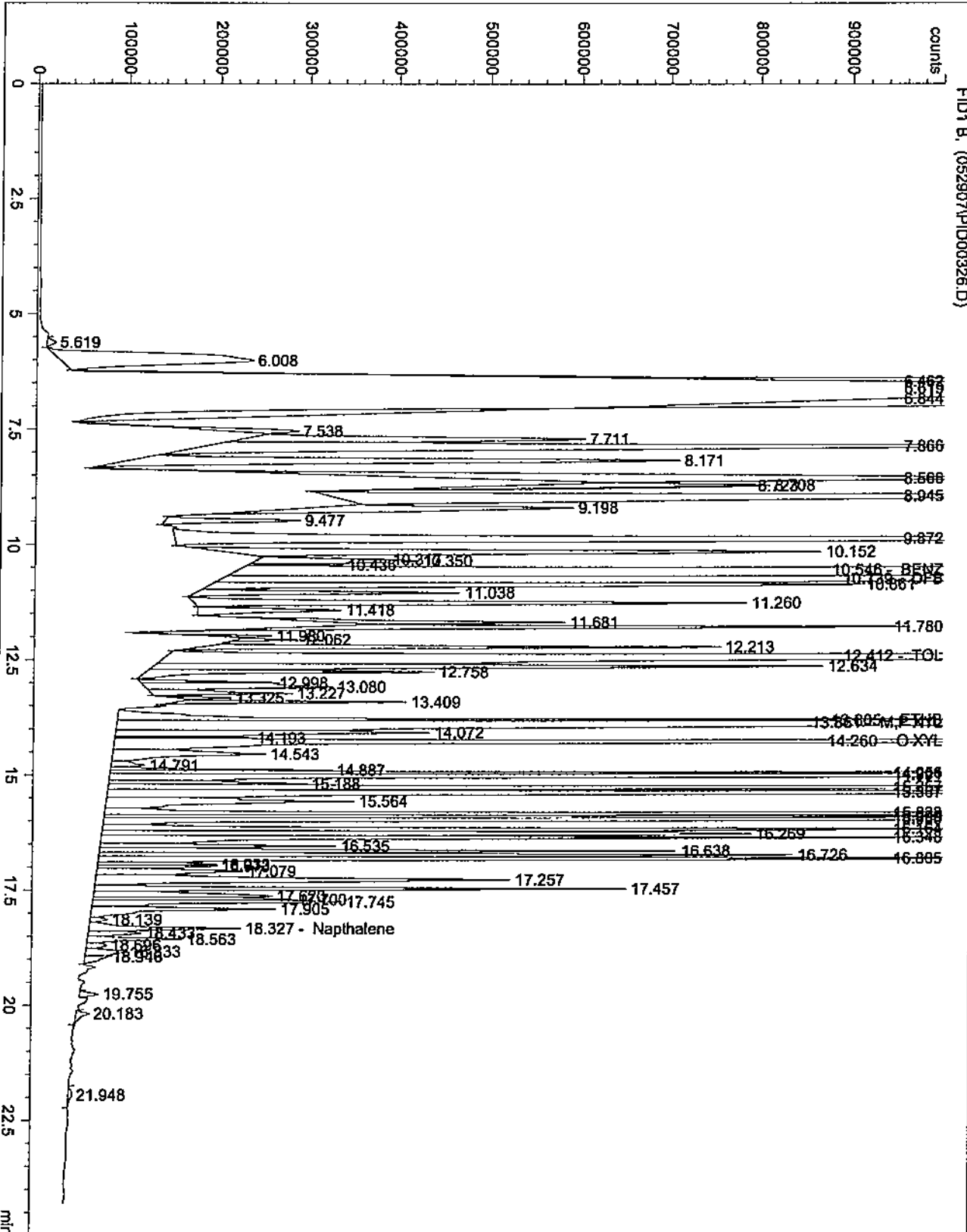


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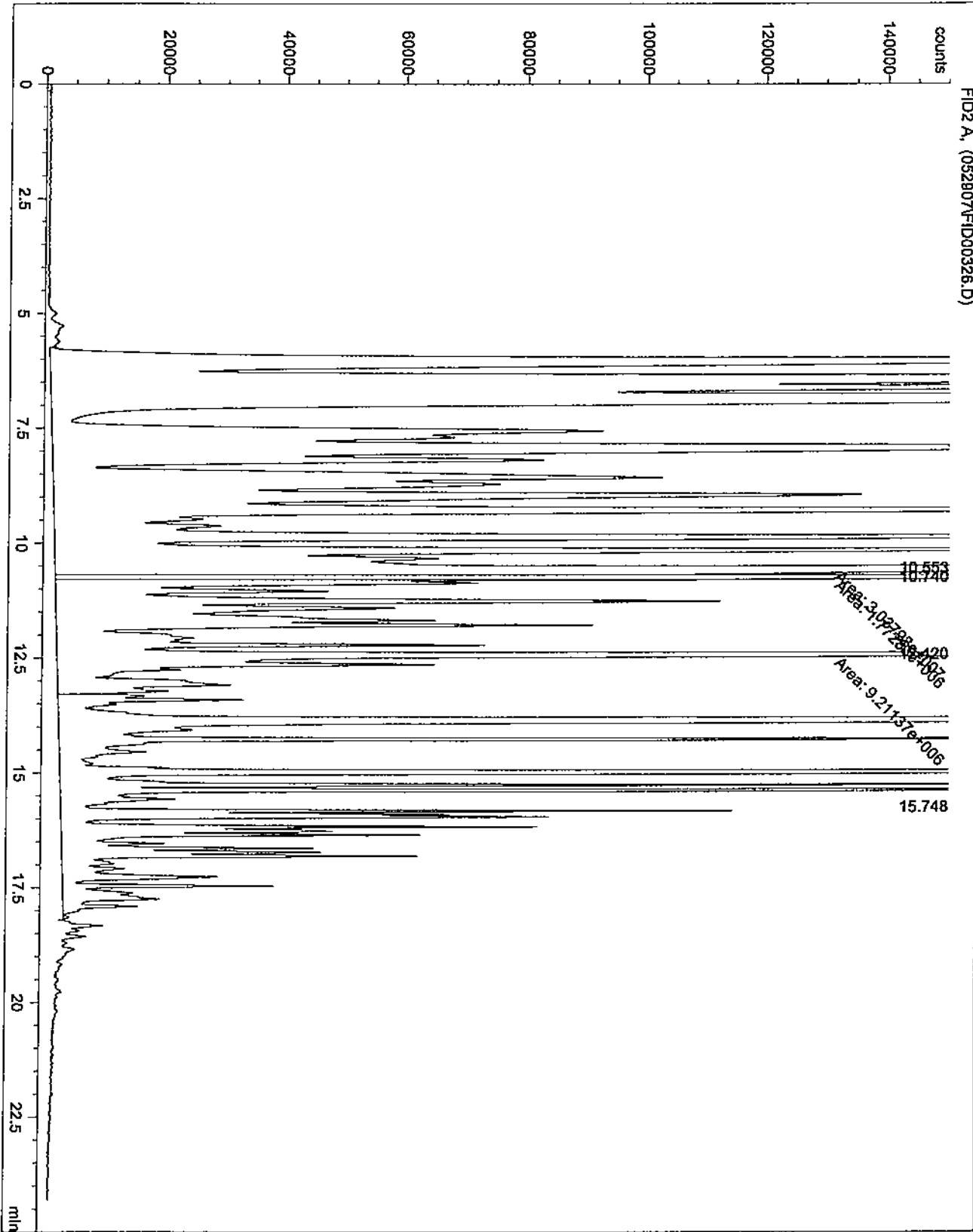
=====
Injection Date   : 6/2/07 6:16:13 AM           Seq. Line : 117
Sample Name     : 50229-4 x10                 Vial      : 111
Acq. Operator   : LD                          Inj       : 1
                                           Inj Volume: Manually

Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed   : 12/5/06 9:23:57 AM by LD
Analysis Method: C:\HPCHEM\1\METHODS\051507LD.M
Last changed   : 6/5/07 7:54:49 AM by LD
                (modified after loading)
=====

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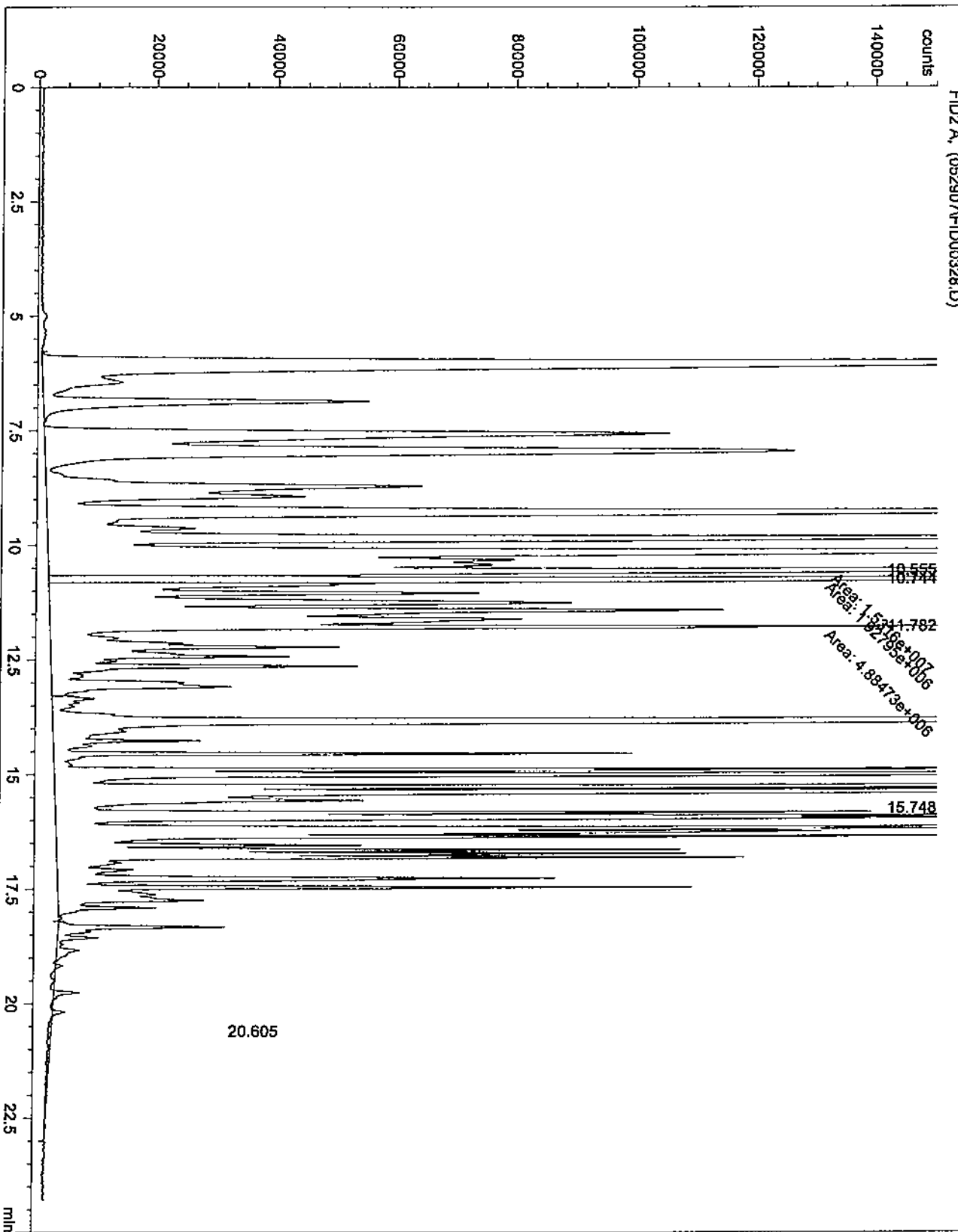


=====  
Injection Date : 6/2/07 6:16:13 AM                   Seq. Line : 117  
Sample Name    : 50229-4 x10                         Vial : 312  
Acq. Operator  : LD                                   Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\VPH.M  
Last changed   : 6/5/07 9:01:31 AM by LD  
  (modified after loading)  
=====

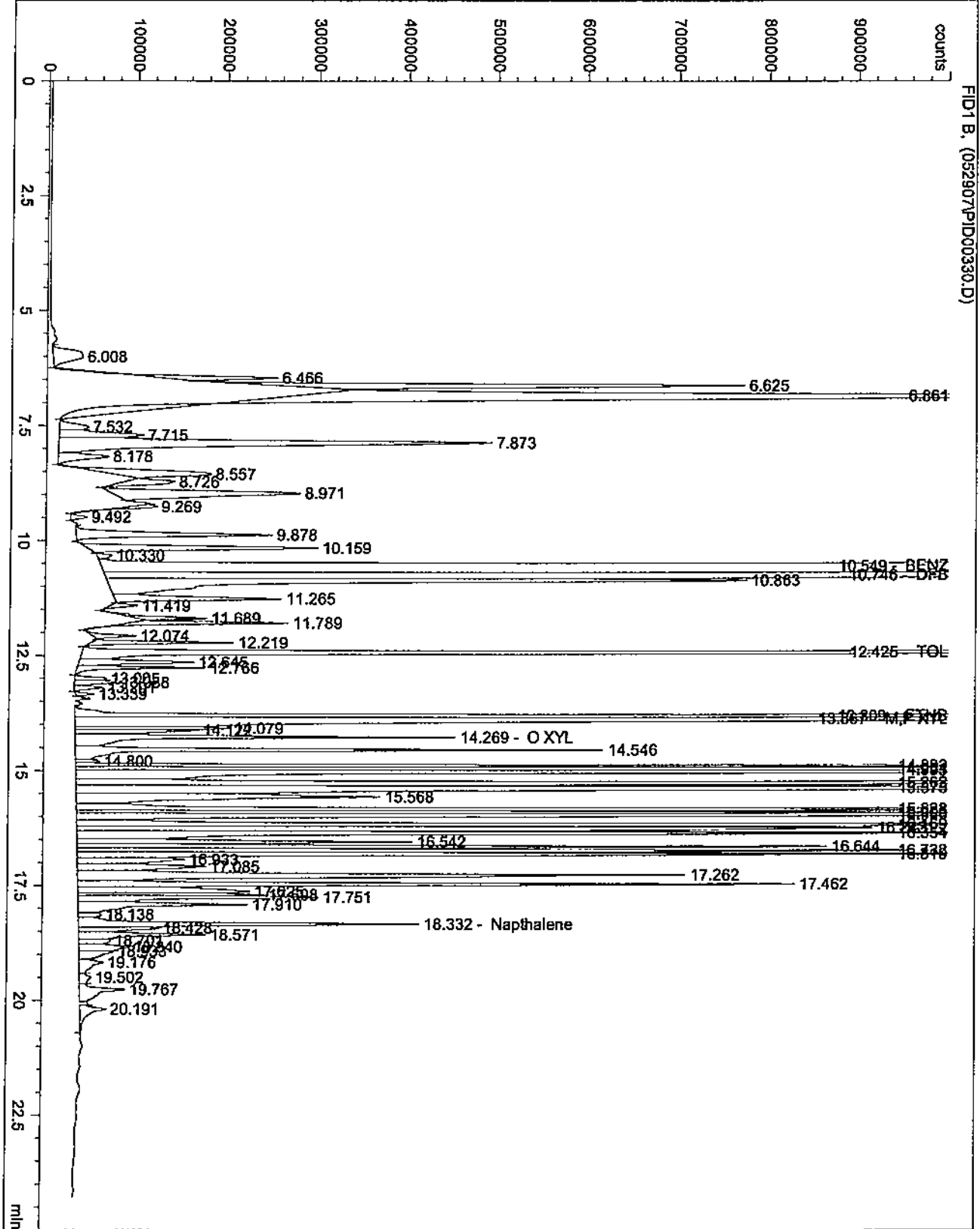




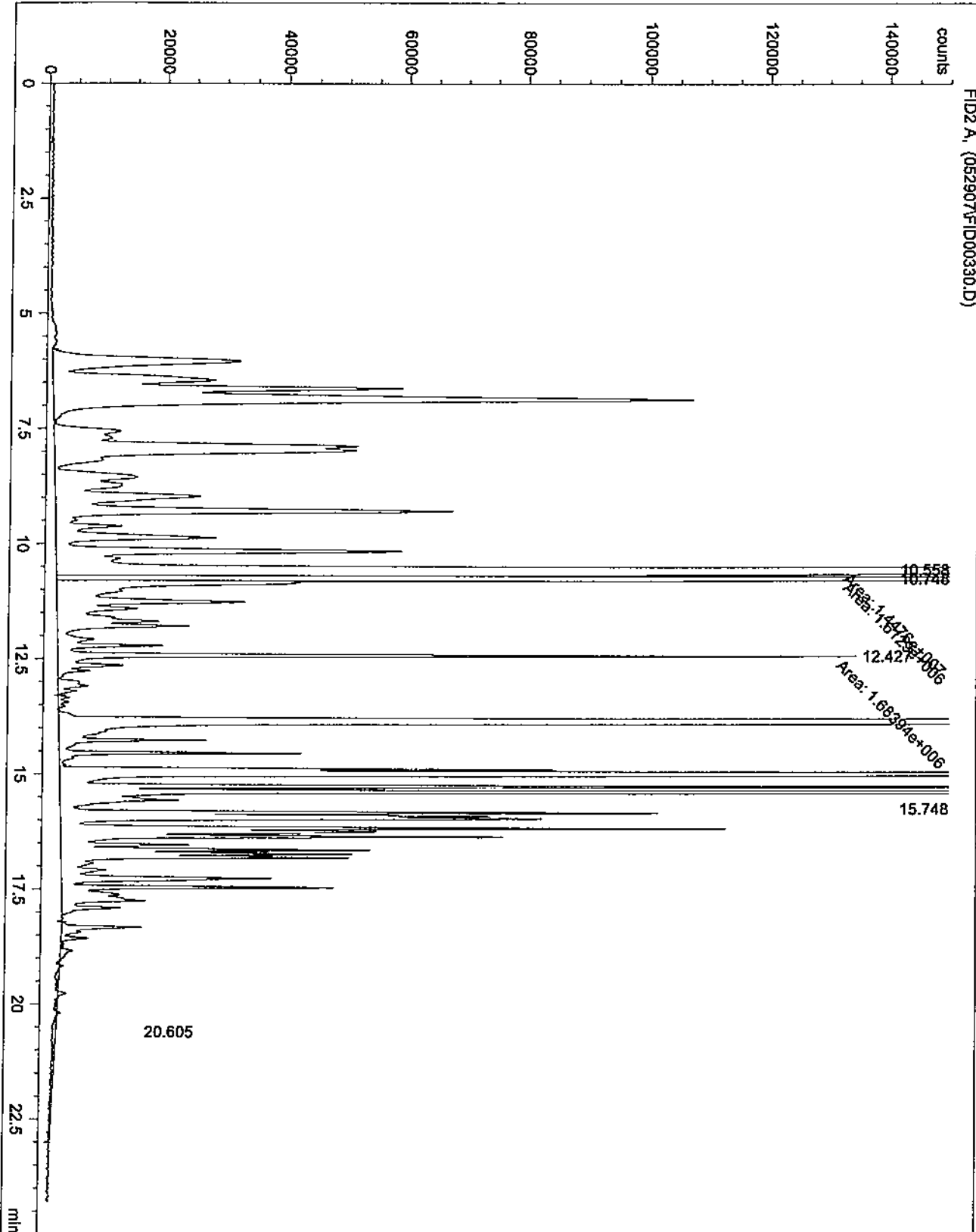
=====  
Injection Date : 6/2/07 7:34:20 AM                   Seq. Line : 119  
Sample Name    : 50229-5 x10                         Vial : 314  
Acq. Operator  : LD                                   Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\VPH.M  
Last changed   : 6/5/07 9:01:31 AM by LD  
  (modified after loading)  
=====



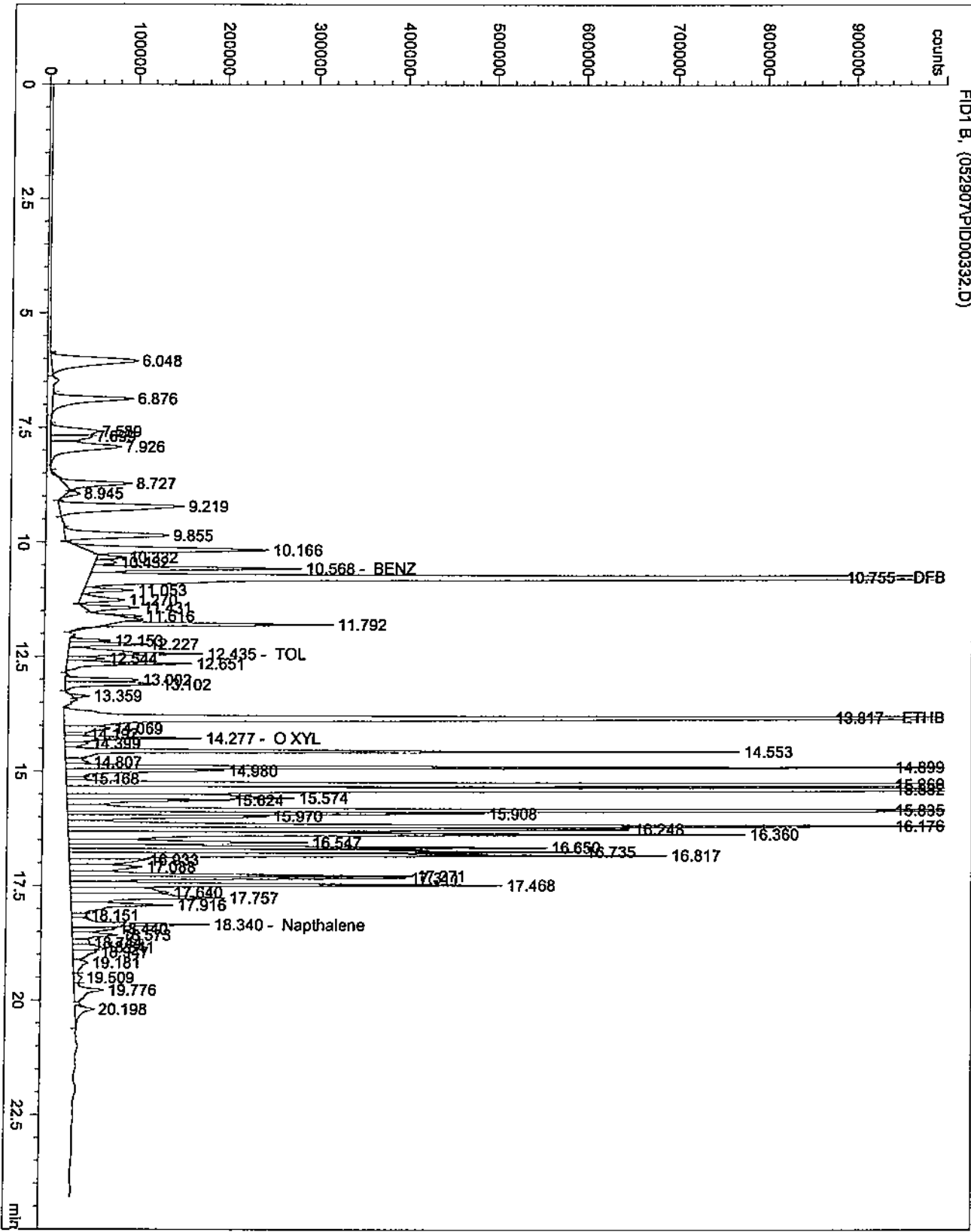
=====  
Injection Date : 6/2/07 8:52:55 AM                   Seq. Line : 121  
Sample Name    : 50229-6 x10                         Vial : 115  
Acq. Operator  : LD                                   Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\051507LD.M  
Last changed   : 6/5/07 7:54:49 AM by LD  
  (modified after loading)  
=====



=====  
Injection Date : 6/2/07 8:52:55 AM                   Seq. Line : 121  
Sample Name    : 50229-6 x10                         Vial : 316  
Acq. Operator  : LD                                   Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\VPH.M  
Last changed   : 6/5/07 9:01:31 AM by LD  
  (modified after loading)  
=====

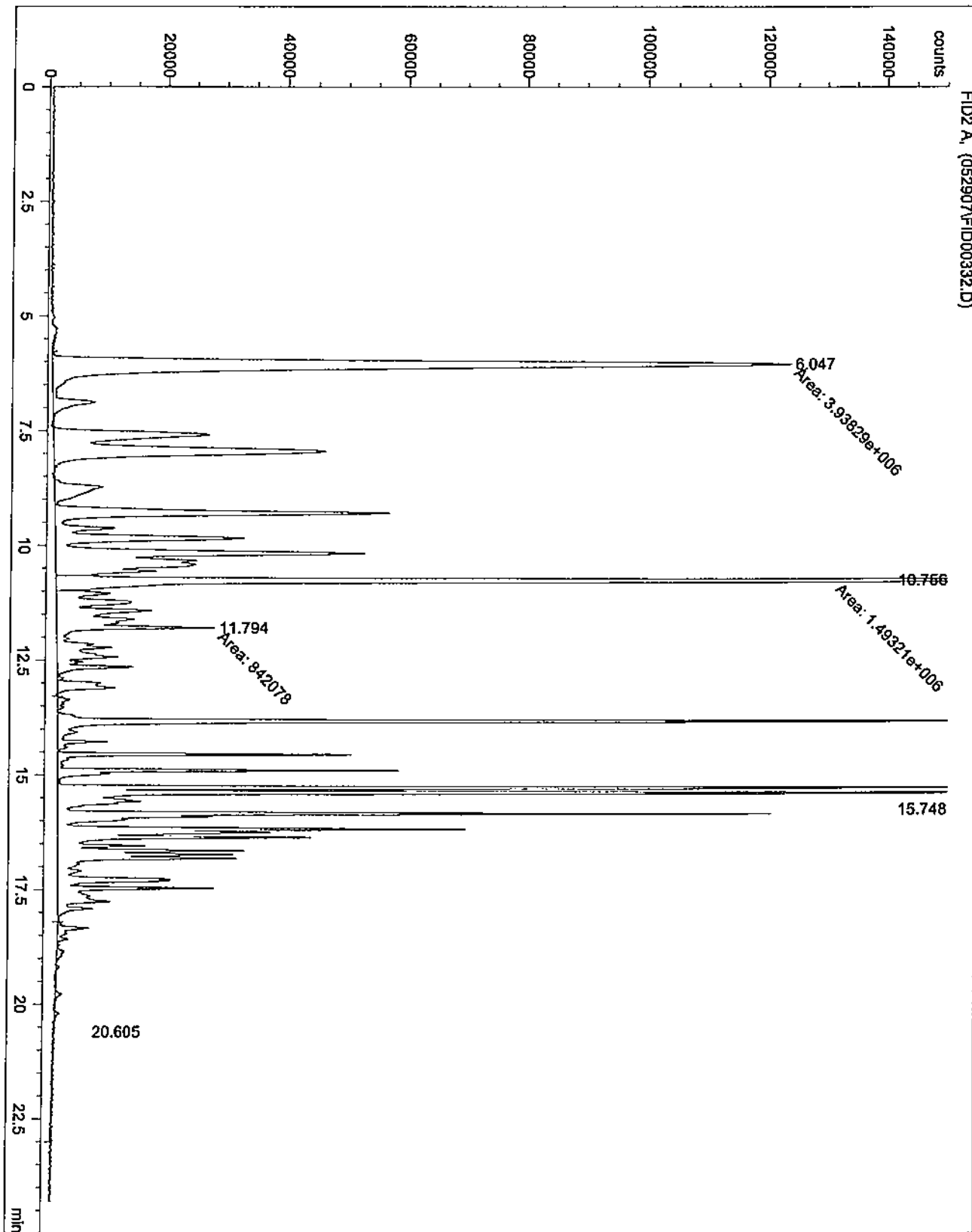


=====  
Injection Date : 6/2/07 10:11:35 AM                   Seq. Line : 123  
Sample Name    : 50229-7 x20                            Vial : 117  
Acq. Operator  : LD                                     Inj : 1  
  Inj Volume : Manually  
  
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed   : 12/5/06 9:23:57 AM by LD  
Analysis Method: C:\HPCHEM\1\METHODS\051507LD.M  
Last changed   : 6/7/07 10:19:23 AM by LD  
  (modified after loading)  
=====



FID1 B, (052907\PID00332.D)

=====  
Injection Date : 6/2/07 10:11:35 AM                   Seq. Line : 123  
Sample Name : 50229-7 x20                               Vial : 318  
Acq. Operator : LD                                        Inj : 1  
  Inj Volume : Manually  
  
Acq. Method : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed : 12/5/06 9:23:57 AM by LD  
Analysis Method : C:\HPCHEM\1\METHODS\VPH.M  
Last changed : 6/14/07 1:02:59 PM by LD  
  (modified after loading)  
=====



REPORT TO: ATTN: MATT WRIGHT  
GEO-MATRIX CONSULTANTS, INC.  
1001 S. HIGGINS AVE.  
MISSOULA, MT 59801

DATE: June 21, 2007  
JOB NUMBER: 05-922-1  
PAGE: 1 of 15  
INVOICE NO.: 7050177

REPORT OF: Soil Analysis – CSKT-Elmo – Project No. 12454

---

**CASE NARRATIVE:**

On May 19, 2007, these soil samples (laboratory numbers 2007050177-1 through -6) were received in our laboratory for analysis. Tests were conducted in accordance with Massachusetts Department of Environmental Protection "Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)" Jan. 1998; Massachusetts Department of Environmental Protection "Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)" Jan. 1998; and SW-846 "Test Methods for Evaluating Solid Waste", 3<sup>rd</sup> Edition, updates I, II, IIA, IIB, III.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the practical quantitation limit (PQL) for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

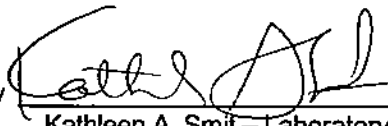
The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed. Chromatograms are attached for your reference.

When MTBE or naphthalene were measured in a sample above one half the risk based screening level as published by the Montana Department of Environmental Quality, a confirmation analysis was performed using EPA Method 8260B.

Footnotes used in this report include the following:

- (1) Surrogate recovery is estimated or not reported due to dilution or the presence of interfering analytes.
- (5) Confirmed the presence but not the quantity by EPA Method 8260B analysis.
- (11) A confirmatory analysis was not required as the analyte concentration was less than one half the risk based assessment level.

Reviewed by



Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody  
Sample Receipt Checklist

ncf

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |              |
|----------------------------|----------------------------|--------------|
| Sample No.: 2007050177-1   | Description: MW-5 @ 8      | Matrix: SOIL |
| Date Received: 05/19/2007  |                            |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>METALS</b>                              |                |            |             |                  |
| ICP/AA Batch#/Digest Date                  | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis                             | <10            | mg/kg      | 6020        | 06/04/2007       |
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | 18             | %          | MDEP-98     | 05/21/2007       |
| Total Purgeable Hydrocarbons dry basis     | <12            | mg/kg      | MDEP-VPH-98 | 06/10/2007       |
| Benzene dry basis                          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Ethylbenzene dry basis                     | 0.13           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Methyl-tert-butyl ether dry basis          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Naphthalene dry basis                      | <0.30          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Toluene dry basis                          | <0.06          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Total Xylenes dry basis                    | <0.18          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C5-C8 Aliphatics, dry basis                | <6             | mg/kg      | MDEP-VPH-98 | 06/10/2007       |
| C9-C12 Aliphatics, dry basis               | <6             | mg/kg      | MDEP-VPH-98 | 06/10/2007       |
| C9-C10 Aromatics, dry basis                | <1             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| PID Surrogate Recovery                     | 99             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| FID Surrogate Recovery                     | 99             | % [70-130] | MDEP-VPH-98 | 06/10/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |              |
|----------------------------|----------------------------|--------------|
| Sample No.: 2007050177-2   | Description: MW-5 @ 12     | Matrix: SOIL |
| Date Received: 05/19/2007  |                            |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>METALS</b>                              |                |            |             |                  |
| ICP/AA Batch#/Digest Date                  | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis                             | <10            | mg/kg      | 6020        | 06/04/2007       |
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | 11             | %          | MDEP-98     | 05/21/2007       |
| Total Purgeable Hydrocarbons dry basis     | 200            | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Benzene dry basis                          | 0.12           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Ethylbenzene dry basis                     | 3.7            | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Methyl-tert-butyl ether dry basis          | <0.25          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Naphthalene dry basis                      | 2.3 (5)        | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Toluene dry basis                          | 0.12           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Total Xylenes dry basis                    | 3.5            | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C5-C8 Aliphatics, dry basis                | 87             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C12 Aliphatics, dry basis               | 41             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C10 Aromatics, dry basis                | 40             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| PID Surrogate Recovery                     | 118            | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| FID Surrogate Recovery                     | (1)            | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |              |
|----------------------------|----------------------------|--------------|
| Sample No.: 2007050177-3   | Description: MW-6 @ 12     | Matrix: SOIL |
| Date Received: 05/19/2007  |                            |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>METALS</b>                              |                |            |             |                  |
| ICP/AA Batch#/Digest Date                  | 1913           | ----       | 3050B-M     | 05/31/2007       |
| Lead Dry Basis                             | <10            | mg/kg      | 6020        | 06/04/2007       |
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | 9              | %          | MDEP-98     | 05/21/2007       |
| Total Purgeable Hydrocarbons dry basis     | 16             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Benzene dry basis                          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Ethylbenzene dry basis                     | 0.08           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Methyl-tert-butyl ether dry basis          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Naphthalene dry basis                      | 0.64 (11)      | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Toluene dry basis                          | <0.05          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Total Xylenes dry basis                    | 0.28           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C5-C8 Aliphatics, dry basis                | <5             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C12 Aliphatics, dry basis               | <5             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C10 Aromatics, dry basis                | 4.5            | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| PID Surrogate Recovery                     | 96             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| FID Surrogate Recovery                     | 87             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| Batch #/Extraction Date-VPH                | 9111           | ----       | MDEP-VPH-98 | 05/21/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |              |
|----------------------------|----------------------------|--------------|
| Sample No.: 2007050177-4   | Description: MW-7 @ 6      | Matrix: SOIL |
| Date Received: 05/19/2007  |                            |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>METALS</b>                              |                |            |             |                  |
| ICP/AA Batch#/Digest Date                  | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis                             | 15             | mg/kg      | 6020        | 06/04/2007       |
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | 22             | %          | MDEP-98     | 05/21/2007       |
| Total Purgeable Hydrocarbons dry basis     | <13            | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Benzene dry basis                          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Ethylbenzene dry basis                     | 0.09           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Methyl-tert-butyl ether dry basis          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Naphthalene dry basis                      | <0.32          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Toluene dry basis                          | <0.06          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Total Xylenes dry basis                    | <0.19          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C5-C8 Aliphatics, dry basis                | <6             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C12 Aliphatics, dry basis               | <6             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C10 Aromatics, dry basis                | <1             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| PID Surrogate Recovery                     | 98             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| FID Surrogate Recovery                     | 77             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |              |
|----------------------------|----------------------------|--------------|
| Sample No.: 2007050177-5   | Description: MW-7 @ 12     | Matrix: SOIL |
| Date Received: 05/19/2007  |                            |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>METALS</b>                              |                |            |             |                  |
| ICP/AA Batch#/Digest Date                  | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis                             | <10            | mg/kg      | 6020        | 06/04/2007       |
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | 10             | %          | MDEP-98     | 05/21/2007       |
| Total Purgeable Hydrocarbons dry basis     | 31             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Benzene dry basis                          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Ethylbenzene dry basis                     | <0.06          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Methyl-tert-butyl ether dry basis          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Naphthalene dry basis                      | 1.4 (11)       | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Toluene dry basis                          | <0.06          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Total Xylenes dry basis                    | 0.45           | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C5-C8 Aliphatics, dry basis                | <6             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C12 Aliphatics, dry basis               | <6             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C10 Aromatics, dry basis                | 14             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| PID Surrogate Recovery                     | 94             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| FID Surrogate Recovery                     | 77             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |                            |              |
|----------------------------|----------------------------|--------------|
| Sample No.: 2007050177-6   | Description: MW-8 @ 7      | Matrix: SOIL |
| Date Received: 05/19/2007  |                            |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>METALS</b>                              |                |            |             |                  |
| ICP/AA Batch#/Digest Date                  | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis                             | 10             | mg/kg      | 6020        | 06/04/2007       |
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | 21             | %          | MDEP-98     | 05/21/2007       |
| Total Purgeable Hydrocarbons dry basis     | <13            | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Benzene dry basis                          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Ethylbenzene dry basis                     | <0.06          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Methyl-tert-butyl ether dry basis          | <0.03          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Naphthalene dry basis                      | <0.32          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Toluene dry basis                          | <0.06          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| Total Xylenes dry basis                    | <0.19          | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C5-C8 Aliphatics, dry basis                | <6             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C12 Aliphatics, dry basis               | <6             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| C9-C10 Aromatics, dry basis                | <1             | mg/kg      | MDEP-VPH-98 | 06/11/2007       |
| PID Surrogate Recovery                     | 99             | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| FID Surrogate Recovery                     | 103            | % [70-130] | MDEP-VPH-98 | 06/11/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |   |              |
|----------------------------|---|--------------|
| Sample No.: 2007050177-7   | Description: MATRIX SPIKE OF 2007050177-1 | Matrix: SOIL |
| Date Received: 05/19/2007  |   |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON                |              |

| Laboratory Test           | Measured Value | Test Units | Test Method | Date of Analysis |
|---------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>             |                |            |             |                  |
| ICP/AA Batch#/Digest Date | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis            | 105            | % [82-118] | 6020        | 06/04/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                            |  |              |
|----------------------------|--|--------------|
| Sample No.: 2007050177-8   | Description: MATRIX SPIKE DUPLICATE OF | Matrix: SOIL |
| Date Received: 05/19/2007  | 2007050177-1                           |              |
| Date Collected: 05/17/2007 | Collected by: ADAM JOHNSON             |              |

| Laboratory Test           | Measured Value | Test Units | Test Method | Date of Analysis |
|---------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>             |                |            |             |                  |
| ICP/AA Batch#/Digest Date | 1913           | -----      | 3050B-M     | 05/31/2007       |
| Lead Dry Basis            | 5              | RPD [0-23] | 6020        | 06/04/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

|                          |                               |              |
|--------------------------|-------------------------------|--------------|
| Sample No.: 2007050177-9 | Description: METHOD BLANK     | Matrix: SOIL |
| Date Received: ----      |                               |              |
| Date Collected: —        | Collected by: PREPARED BY LAB |              |

| Laboratory Test           | Measured Value | Test Units | Test Method | Date of Analysis |
|---------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>             |                |            |             |                  |
| ICP/AA Batch#/Digest Date | 1913           | ---        | 3050B-M     | 05/31/2007       |
| Lead Dry Basis            | <0.1           | mg/l       | 6020        | 06/04/2007       |

**Northern Analytical Laboratories, Inc.**

Client Name: GEO-MATRIX CONSULTANTS, INC.

Project No.: 12454

Project Name: CSKT-ELMO

Sample No.: 2007050177-10      Description: LABORATORY CONTROL SAMPLE      Matrix: SOIL

Date Received: —

Date Collected: —      Collected by: PREPARED BY LAB

| Laboratory Test           | Measured Value | Test Units | Test Method | Date of Analysis |
|---------------------------|----------------|------------|-------------|------------------|
| <b>METALS</b>             |                |            |             |                  |
| ICP/AA Batch#/Digest Date | 1913           | —          | 3050B-M     | 05/31/2007       |
| Lead Dry Basis            | 99             | % [82-117] | 6020        | 06/04/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH SOIL QUALITY CONTROL

Sample No.: 2007050007-29 Description: METHOD BLANK; VPH BATCH 9111 Matrix: SOIL

Date Received: —

Date Collected: — Collected by: PREPARED BY LAB

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | NA             | —          | —           | —                |
| Total Purgeable Hydrocarbons dry basis     | <10            | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| Benzene dry basis                          | <0.03          | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| Ethylbenzene dry basis                     | <0.05          | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| Methyl-tert-butyl ether dry basis          | <0.03          | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| Naphthalene dry basis                      | <0.25          | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| Toluene dry basis                          | <0.05          | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| Total Xylenes dry basis                    | <0.15          | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| C5-C8 Aliphatics, dry basis                | <5             | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| C9-C12 Aliphatics, dry basis               | <5             | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| C9-C10 Aromatics, dry basis                | <1             | mg/kg      | MDEP-VPH-98 | 05/30/2007       |
| PID Surrogate Recovery                     | 92             | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| FID Surrogate Recovery                     | 89             | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH SOIL QUALITY CONTROL

|                           |  |
|---------------------------|--|
| Sample No.: 2007050007-30 | Description: LABORATORY CONTROL SAMPLE; Matrix: SOIL |
| Date Received: —          | VPH BATCH 9111                                       |
| Date Collected: —         | Collected by: PREPARED BY LAB                        |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | NA             | ----       | ----        | ----             |
| Total Purgeable Hydrocarbons dry basis     | 109            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Benzene dry basis                          | 106            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Ethylbenzene dry basis                     | 107            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Methyl-tert-butyl ether dry basis          | 107            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Naphthalene dry basis                      | 95             | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Toluene dry basis                          | 121            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Total Xylenes dry basis                    | 109            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| C5-C8 Aliphatics, dry basis                | 115            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| C9-C12 Aliphatics, dry basis               | 99             | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| C9-C10 Aromatics, dry basis                | 106            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| PID Surrogate Recovery                     | 100            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| FID Surrogate Recovery                     | 92             | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH SOIL QUALITY CONTROL

|                            |  |              |
|----------------------------|--|--------------|
| Sample No.: 2007050007-31  | Description: MATRIX SPIKE OF 2007050177-4; | Matrix: SOIL |
| Date Received: 05/19/2007  | VPH BATCH 9111                             |              |
| Date Collected: 05/17/2007 | Collected by: CLIENT                       |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | NA             | —          | —           | —                |
| Total Purgeable Hydrocarbons dry basis     | 109            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Benzene dry basis                          | 105            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Ethylbenzene dry basis                     | 105            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Methyl-tert-butyl ether dry basis          | 106            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Naphthalene dry basis                      | 105            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Toluene dry basis                          | 120            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Total Xylenes dry basis                    | 108            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| C5-C8 Aliphatics, dry basis                | 115            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| C9-C12 Aliphatics, dry basis               | 100            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| C9-C10 Aromatics, dry basis                | 106            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| PID Surrogate Recovery                     | 100            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| FID Surrogate Recovery                     | 91             | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Batch #/Extraction Date-VPH                | 9111           | —          | MDEP-VPH-98 | 05/21/2007       |

Client Name: QUALITY CONTROL

Project No.: 59-100

Project Name: VPH SOIL QUALITY CONTROL

|                           |   |              |
|---------------------------|---|--------------|
| Sample No.: 2007050007-32 | Description: DUPLICATE OF 2007050177-4; VPH | Matrix: SOIL |
| Date Received: —          | BATCH 9111                                  |              |
| Date Collected: —         | Collected by: CLIENT                        |              |

| Laboratory Test                            | Measured Value | Test Units | Test Method | Date of Analysis |
|--|----------------|------------|-------------|------------------|
| <b>VPH IN SOIL BY MASSACHUSETTS METHOD</b> |                |            |             |                  |
| Moisture                                   | NA             | —          | —           | —                |
| Total Purgeable Hydrocarbons dry basis     | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| Benzene dry basis                          | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| Ethylbenzene dry basis                     | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| Methyl-tert-butyl ether dry basis          | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| Naphthalene dry basis                      | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| Toluene dry basis                          | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| Total Xylenes dry basis                    | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| C5-C8 Aliphatics, dry basis                | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| C9-C12 Aliphatics, dry basis               | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| C9-C10 Aromatics, dry basis                | 0              | RPD [0-50] | MDEP-VPH-98 | 05/30/2007       |
| PID Surrogate Recovery                     | 112            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| FID Surrogate Recovery                     | 107            | % [70-130] | MDEP-VPH-98 | 05/30/2007       |
| Batch #/Extraction Date-VPH                | 9111           | ----       | MDEP-VPH-98 | 05/21/2007       |



**SAMPLE RECEIPT CHECKLIST**

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

|  |  |
|--|--|
| Client Name <u>Geo Matrix</u>                            | Date/Time Received <u>5/19/07 1100</u> |
| Project <u>CSKT - Elmo</u>                               | Received by <u>[Signature]</u>         |
| Laboratory Number(s) <u>2007050177</u>                   | Carrier Name <u>BWA</u>                |
| Checklist Completed by <u>[Signature]</u> <u>5/19/07</u> | Sample Type <u>[Signature]</u>         |
| Initials / Date  |  |

|   |                                     | YES | NO                                  |   |                  | YES                                 | NO                       |
|---|-------------------------------------|-----|-------------------------------------|---|------------------|-------------------------------------|--------------------------|
| 1. Shipping container in good condition?  | <input checked="" type="checkbox"/> |     |                                     | 14. pH check performed by:                                | <u>NA</u>        |                                     |                          |
| 2. Custody seals present on shipping container?<br>Condition: Intact <u>NA</u> Broken <u>NA</u> | <input type="checkbox"/>            |     | <input checked="" type="checkbox"/> | 15. Metals bottle(s) pH <2?                               | <u>NA</u>        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Chain of custody present?  | <input checked="" type="checkbox"/> |     |                                     | 16. Nutrient bottle(s) pH <2?                             |                  |                                     |                          |
| 4. Chain of custody signed when relinquished and received?                                      | <input checked="" type="checkbox"/> |     |                                     | 17. Cyanide bottle(s) pH >12?                             |                  |                                     |                          |
| 5. Chain of custody agrees with sample labels?  | <input checked="" type="checkbox"/> |     |                                     | 18. Sulfide bottle(s) pH >9?                              |                  |                                     |                          |
| 6. Custody seals on sample bottles?<br>Condition: Intact <u>NA</u> Broken <u>NA</u>             | <input type="checkbox"/>            |     | <input checked="" type="checkbox"/> | 19. TOC bottle(s) pH <2?                                  |                  |                                     |                          |
| 7. Samples in proper container/bottle?*   | <input checked="" type="checkbox"/> |     |                                     | 20. Phenolics bottle(s) pH <2?                            |                  |                                     |                          |
| 8. Sample containers intact?*   | <input checked="" type="checkbox"/> |     |                                     | 21. Oil & grease bottle(s) pH <2?<br>(checked by analyst) |                  |                                     |                          |
| 9. Sufficient sample volume for indicated test?*  | <input checked="" type="checkbox"/> |     |                                     | 22. EPH/DRO bottle(s) pH <2?<br>(checked by analyst)      |                  |                                     |                          |
| 10. Ice/Frozen Blue Ice present in shipping container? (circle one)                             | <input checked="" type="checkbox"/> |     |                                     | 23. Volatiles (VOA) pH <2?<br>(checked by analyst)        |                  |                                     |                          |
| container temperature 1. <u>3.8</u> 2. <u>X</u> 3. <u>X</u>                                     |                                     |     |                                     | 24. Semivolatiles (525) pH <2?<br>(checked by analyst)    |                  |                                     |                          |
| * (if <0 or >10)  |                                     |     |                                     | 25. Other test types                                      |                  | <input checked="" type="checkbox"/> |                          |
| 11. All samples rec'd within holding time?*   | <input checked="" type="checkbox"/> |     |                                     | 26. Client contacted?                                     |                  | <input checked="" type="checkbox"/> |                          |
| 12. VOA vials have zero headspace?<br>* (if contains >5mm headspace)                            | <input type="checkbox"/>            |     | <u>NA</u>                           | 27. Person contacted                                      | <u>M. Wright</u> |                                     |                          |
| 13. Trip Blank received?  | <input type="checkbox"/>            |     | <u>NA</u>                           | 28. Date contacted  | <u>5/19/07</u>   |                                     |                          |

**NOTES:** Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.

\* Critical item - if marked "NO" contact lab manager.

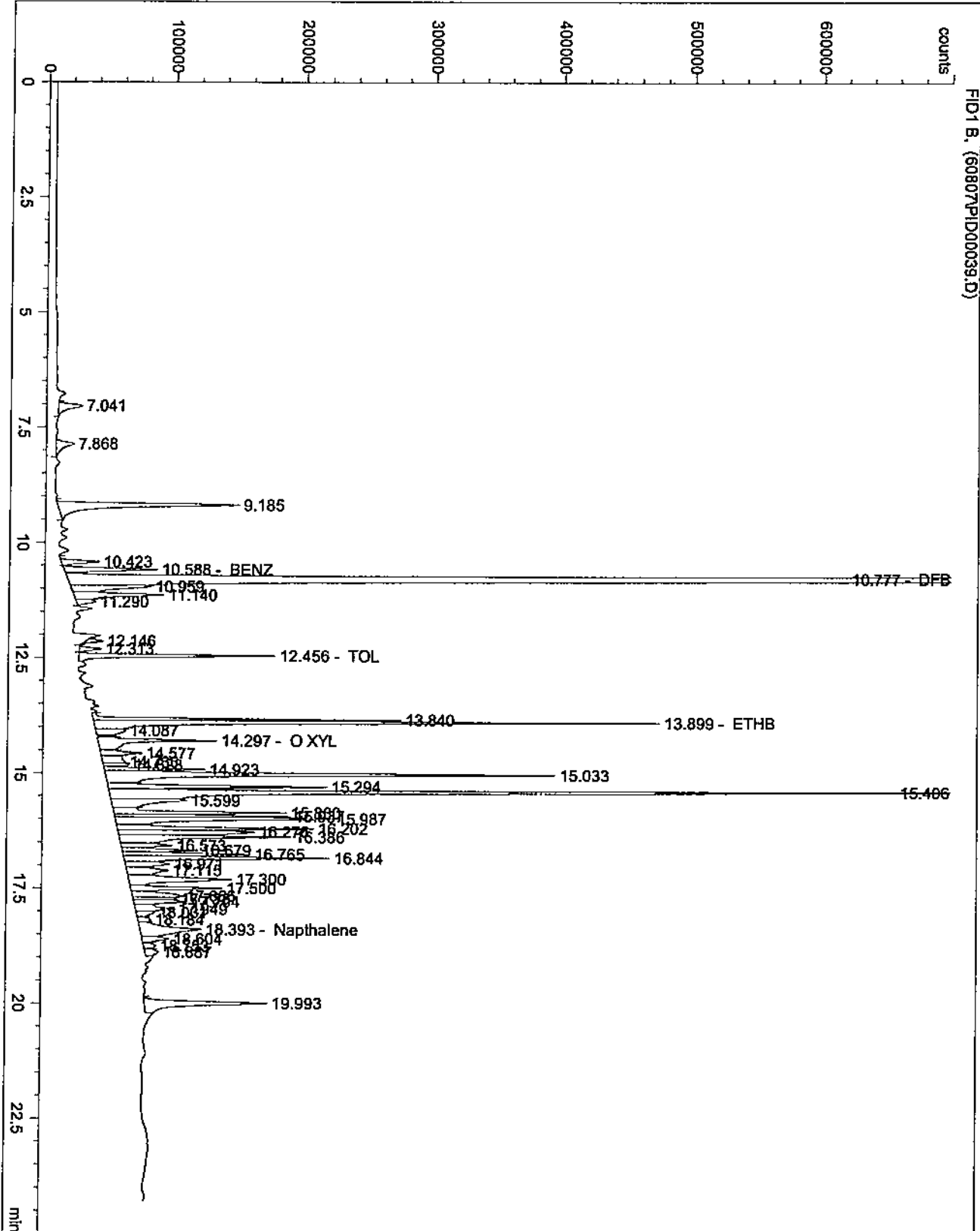
COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

```

=====
Injection Date : 6/11/07 3:30:16 AM      Seq. Line : 39
Sample Name    : BLK 50A7-1 X100          Vial : 67
Acq. Operator  : LD 50A7-1 X100          Inj : 1
                                           Inj Volume : Manually
                                           10/6/11/07
Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed   : 12/5/06 9:23:57 AM by LD
Analysis Method : C:\HPCHEM\1\METHODS\060707LD.M
Last changed   : 6/12/07 3:12:23 PM by LD
                (modified after loading)
=====

```

50A7-1 X100  
10/6/11/07



FID1 B. (60807\PID00039.D)



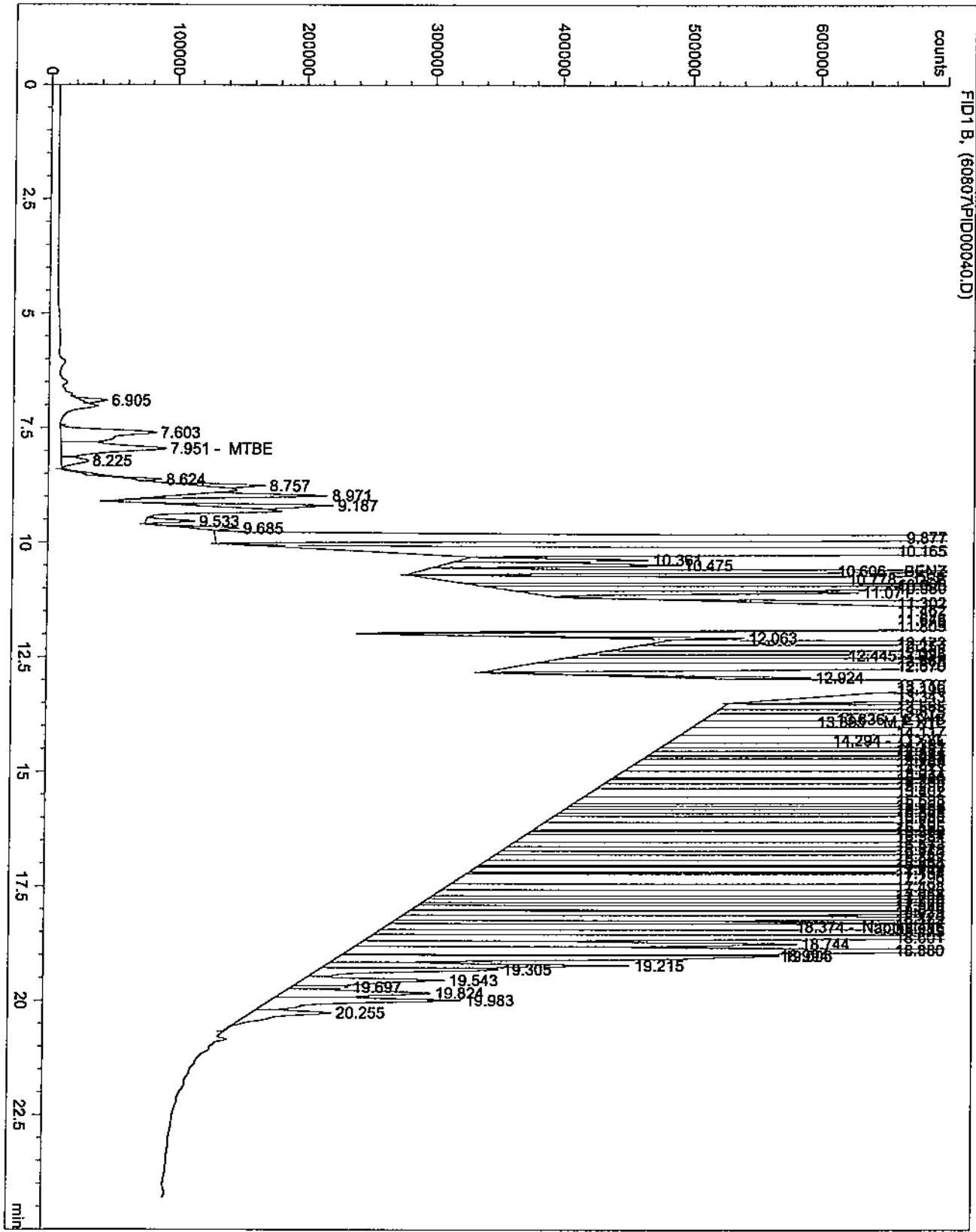
```

=====
Injection Date : 6/11/07 4:10:09 AM      Seq. Line : 40
Sample Name    : 50177-3 x100             Vial       : 68
Acq. Operator  : LD 2 70 6/11/07        Inj        : 1
                                           Inj Volume : Manually

Acq. Method   : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed  : 12/5/06 9:23:57 AM by LD
Analysis Method : C:\HPCHEM\1\METHODS\060707LD.M
Last changed  : 6/11/07 7:50:08 AM by LD
               (modified after loading)
=====

```

*2*  
*6/11/07*





50177-3 x100

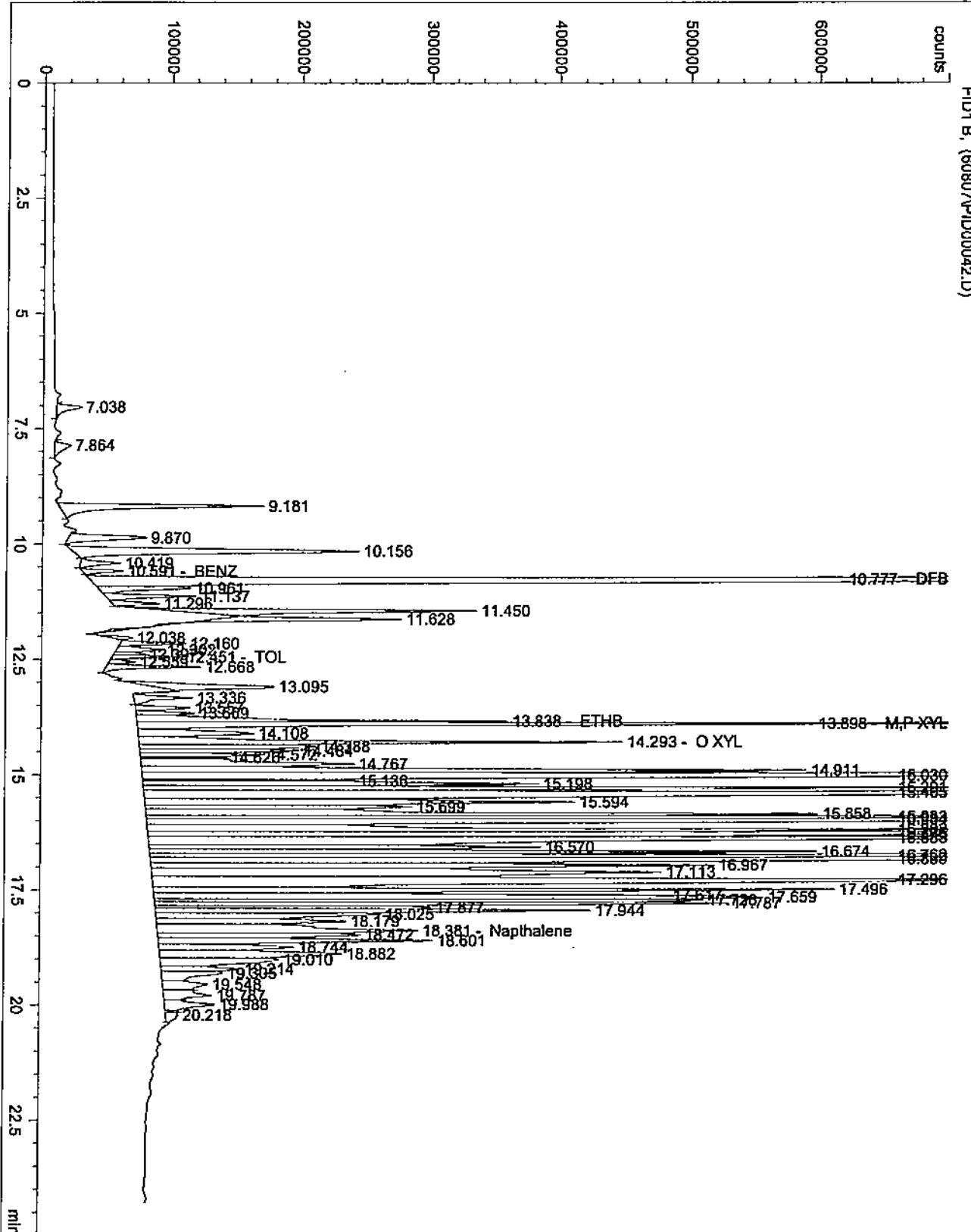
70 6/11/07

```

=====
Injection Date : 6/11/07 5:29:36 AM           Seq. Line : 42
Sample Name    : 40177-5 x100                 Vial       : 70
Acq. Operator  : LD                          Inj        : 1
                                           Inj Volume : Manually

Acq. Method    : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed   : 12/5/06 9:23:57 AM by LD
Analysis Method: C:\HPCHEM\1\METHODS\060707LD.M
Last changed   : 6/12/07 2:30:12 PM by LD
                (modified after loading)
=====

```









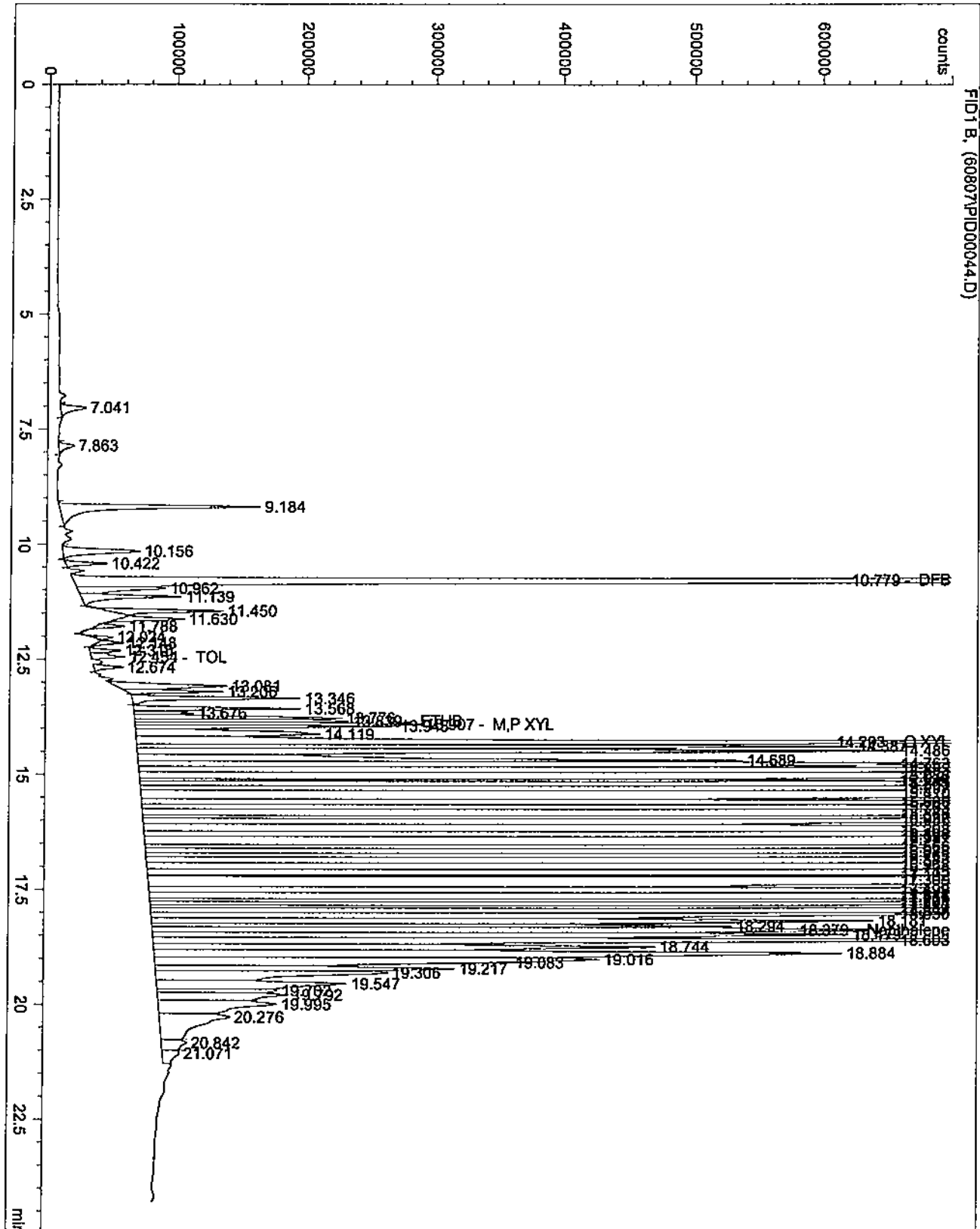
50177-5 x100  
no 6/11/07

```

=====
Injection Date : 6/11/07 6:48:53 AM      Seq. Line : 44
Sample Name    : EEV-AR 50177-5 x100    Vial       : 72
Acq. Operator  : LD                       Inj        : 1
                                           Inj Volume : Manually

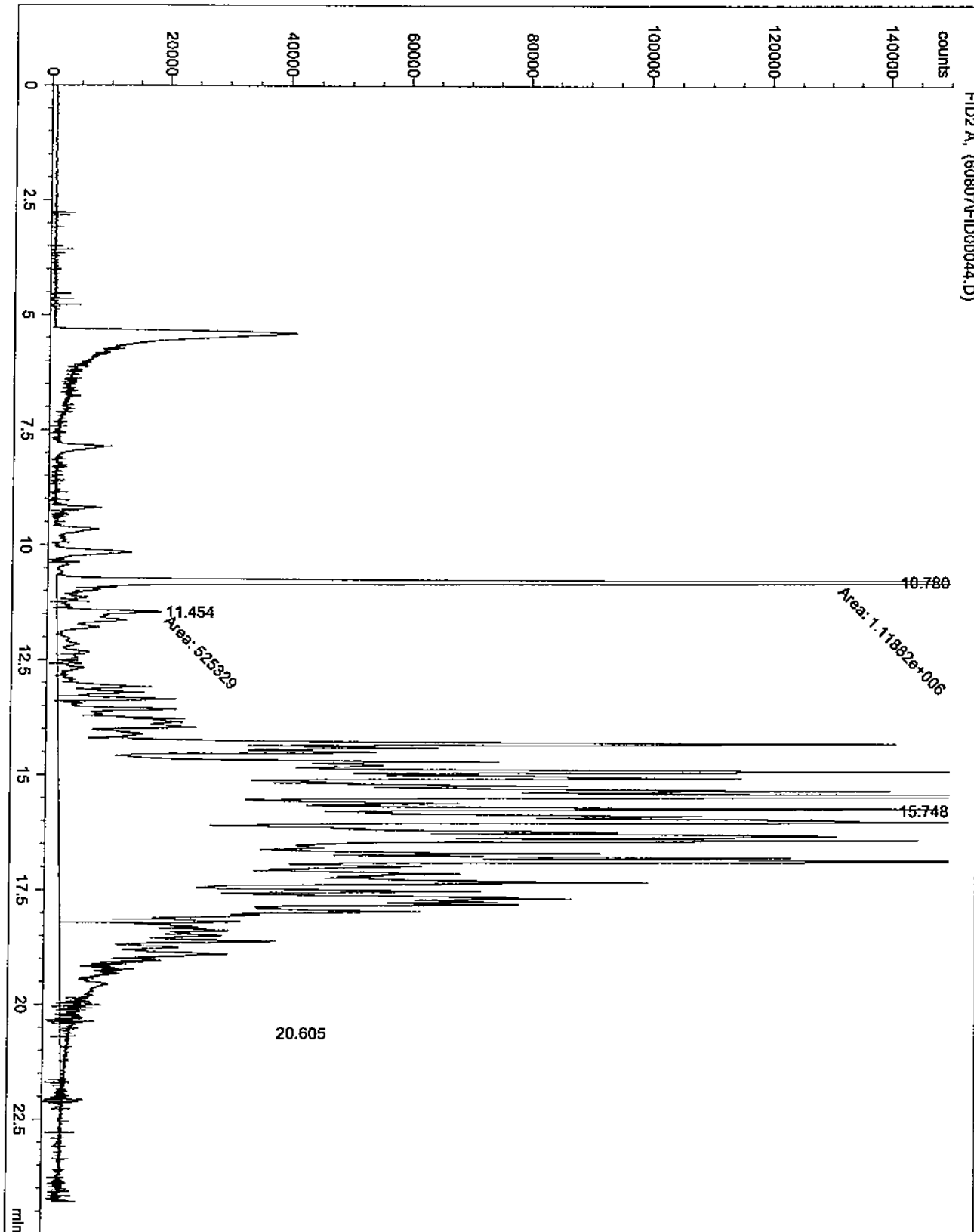
Acq. Method   : C:\HPCHEM\1\METHODS\VPHRUN.M
Last changed  : 12/5/06 9:23:57 AM by LD
Analysis Method : C:\HPCHEM\1\METHODS\060707LD.M
Last changed  : 6/12/07 2:30:12 PM by LD
                (modified after loading)
=====

```



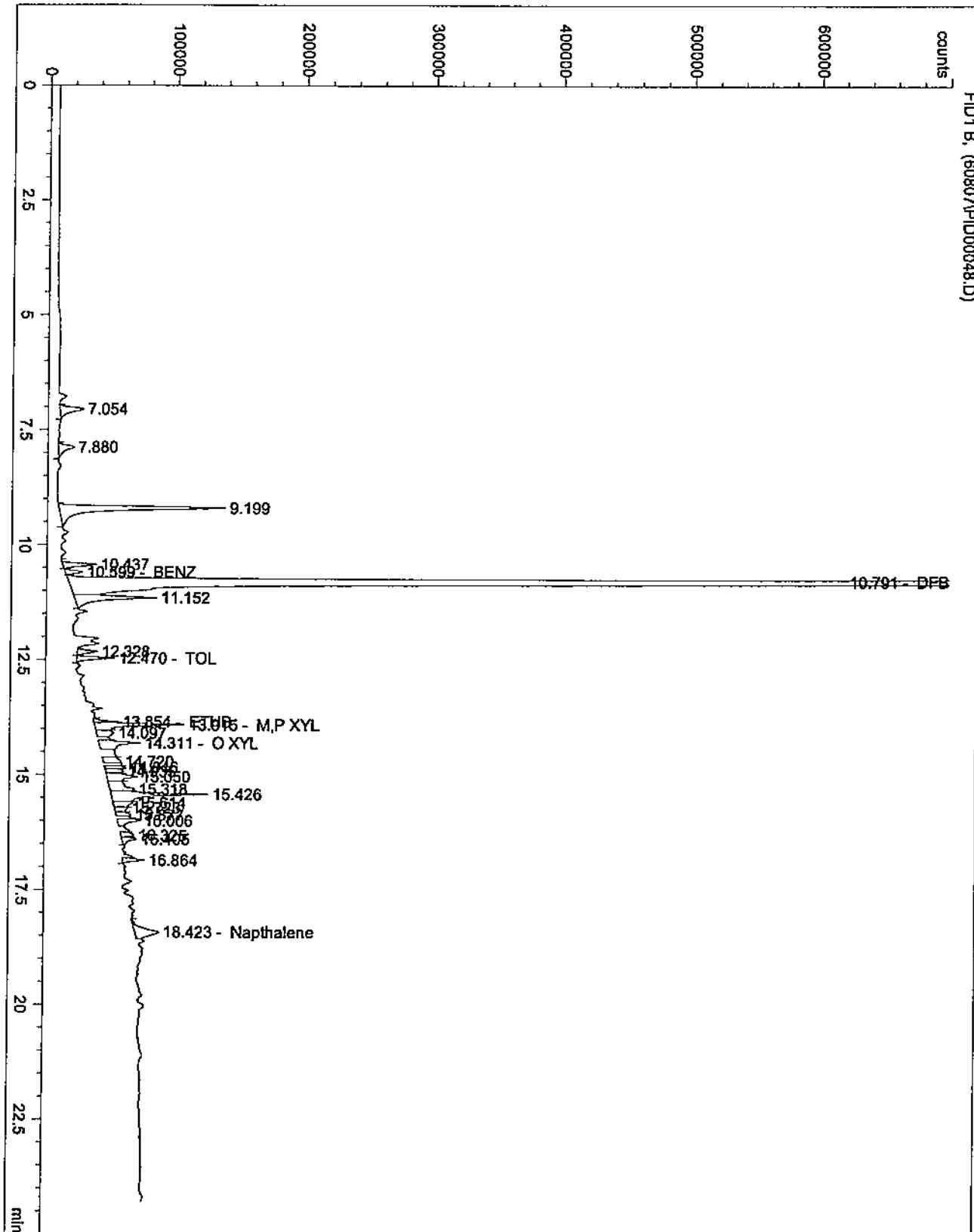
=====  
Injection Date : 6/11/07 6:48:53 AM                   Seq. Line : 44  
Sample Name : ~~CCV-AR~~ 50177-5 x100                   Vial : 269  
Acq. Operator : LD   Inj : 1  
  6/11/07                   Inj Volume : Manually  
  
Acq. Method : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed : 12/5/06 9:23:57 AM by LD  
Analysis Method : C:\HPCHEM\1\METHODS\VPH.M  
Last changed : 6/14/07 8:46:34 AM by LD  
  (modified after loading)  
=====

50177-5 x100  
6/11/07



5 6/13/07

=====  
Injection Date : 6/11/07 10:00:08 AM                   Seq. Line : 48  
Sample Name : 40177-6 x100                               Vial : 74  
Acq. Operator : LD 6/13/07                               Inj : 1  
  Inj Volume : Manually  
  
Acq. Method : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed : 12/5/06 9:23:57 AM by LD  
Analysis Method : C:\HPCHEM\1\METHODS\060707LD.M  
Last changed : 6/12/07 7:06:30 AM by LD  
  (modified after loading)  
=====



=====

|                |                       |            |            |
|----------------|-----------------------|------------|------------|
| Injection Date | : 6/11/07 10:00:08 AM | Seq. Line  | : 48       |
| Sample Name    | : 40177-6 x100        | Vial       | : 270      |
| Acq. Operator  | : LD 6/11/07          | Inj        | : 1        |
|                |                       | Inj Volume | : Manually |

Acq. Method : C:\HPCHEM\1\METHODS\VPHRUN.M  
Last changed : 12/5/06 9:23:57 AM by LD  
Analysis Method : C:\HPCHEM\1\METHODS\VPH.M  
Last changed : 6/13/07 10:11:32 AM by LD  
(modified after loading)

=====

5  
6/11/07

