SDMS DOCID#1140587

FERO ENGINEERING
ENVIRONMENTAL ENGINEERING & CONSULTING

August 15, 2012

Mr. David Young
California Regional Water Quality Control Board
Los Angeles Region
Site Cleanup Program
320 West 4th Street, Suite 200
Los Angeles, California 90013

First Semi-Annual Groundwater Well Monitoring Report 2012
**Continental Heat Treating**
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)

Dear Mr. Young:

Fero Environmental Engineering, Inc. (Fero) conducted the first required semi-annual groundwater monitoring for 2012 at the subject site on May 3, 2012. The event was coordinated with Cardno ERI, Exxon/Mobil's consultant for their ongoing investigation on the Former Jalk Fee Property ("Jalk Fee") to the north so that the groundwater samples were collected at both sites on the same day. During the sampling event, Fero monitored four onsite wells (MW1-MW4) and Cardno monitored eight wells (MW3, MW4, MW5s, MW5m, MW5d, MW6s, MW6m and MW6d) on the Jalk Fee site.

Prior to pumping any water from the wells, the depths to groundwater in the four wells on the site (MW1-MW4) were gauged using an electronic gauging device, which allowed a monitoring accuracy of 0.01 foot. The depth to groundwater measurements were made from the water surface to a survey mark etched on the northern side of each casing. The wells were resurveyed on December 14, 2011 to include newly installed well MW4 and to check the elevations on the other wells. At least one of the well elevations had to be modified to accommodate onsite construction operations so a new survey was conducted. The new survey elevations were used to determine the elevation of the water table in each well. Gauging data for monitoring events conducted on the site by Fero are summarized in Table 1. The well locations are indicated on Figure 1.

The groundwater elevations were used to determine a generally planar surface which represents the local groundwater table and this surface was superimposed onto the base map (Figure 1). The soil type at the slotted section of MW4 was considerably different than the soils located at the screened depths of the other wells. The soils contained primarily silt and clay at MW4 and it was more sand at the other well locations. The elevation data suggest a very slight mound at MW4. The resulting slope of the groundwater table indicates a flow direction generally to the south under a gradient of approximately 0.0058 ft/ft from Cardno well MW7 to CHT well MW1.

431 W. LAMBERT ROAD • SUITE 305 • BREA, CALIFORNIA 92821 • 714/256-2737 • FAX: 714/256-1505

Following gauging and prior to sampling, groundwater monitoring wells MW1-3 were purged of 25 gallons of water, the volume of which was based upon the volume of freestanding water in the wells and the observed stabilization of physical/chemical parameters during purging. The monitoring wells were purged until pH, color, conductivity, and temperature had stabilized. The monitoring wells were purged with a Grundfos variable speed 120-volt AC powered two stage centrifugal Stainless Steel purge pump with discharge through 1/2 inch PVC and Teflon tubing. Groundwater was pumped from the monitoring wells at a rate of approximately 1 gallon per minute. Physical and chemical purge monitoring parameters were measured in the field at the discharge line of the pump. Well purging data is attached hereto as Attachment A.

Subsequent to purging each well, the pump rate was reduced to approximately 100 ml/min whereupon a representative sample of groundwater was collected from the discharge line using 40 ml. glass sample vials. Teflon lined caps were secured tightly onto the 40 ml vials and each was visually inspected to assure that zero headspace had been achieved. The sample vials containing groundwater from each well were immediately placed in an ice chest containing ice and transported for analysis to Enviro-Chem, Inc. in Pomona accompanied by appropriate Chain-of-Custody documentation.

Fero attempted to develop newly installed well MW4 using a heavy 3 inch PVC bailer and the Grundfos pump after sampling the other wells on December 23, 2011. Because of the fine soil profile around the screened section of MW4, fines from the formation filled approximately 10 feet of screened section and the solids density of those fines was too high to allow the bailer to sink closer than about 10 feet from the bottom. Although the pump would drop into the fines, it was not able to pump them. A sample was collected from the clearer water above the mud using the bailer. The well was further developed on January 10, 2012 using a Smeal rig and bottom fill suction bailer. All of the particulates were removed from the well using the bailer and the well was further developed using a Grundfos pump to reduce the fines in the well and formation proximate to the slotted section of the well casing. The well produced water at approximately ¼ gallon per minute. A sample was collected from the Grundfos discharge line near the end of development process, it was analyzed at the lab and the results of the analysis are provided in Table 2.

During the January 10, 2012 sampling event, Fero pumped well MW-4 at a reduced rate of approximately ¼ gallon per minute in an effort to establish a continuous flow condition. Continuous flow was unachievable. Even this reduced pumping rate resulted in a continuously decreasing head in the well. Just before pump cavitation, which was determined with groundwater elevation gauging equipment, groundwater samples were collected as indicated above. Fero was able to remove 15 gallons of water from the well prior to pump cavitation. Samples were taken from the pump discharge into 40 ml glass vials just prior to cavitation which stops flow from the pump. As indicated above, Teflon lined caps were secured tightly onto the 40 ml vials and each was visually inspected to assure that zero headspace had been achieved. The sample vials containing groundwater from the well were immediately placed in an ice chest containing ice and transported at the end of the sampling day for analysis to Enviro-Chem, Inc. in Pomona accompanied by appropriate Chain-of-Custody documentation.

The groundwater samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260B. Groundwater VOC analytical results from this and from previous events are

summarized in Table 2. Selected organics concentrations are included on all of the attached Figures. Lab analytical reports with associated chain-of-custody documentation are attached hereto as Attachment B.

On June 14, 2012, Fero received well survey data, groundwater elevation data, and water quality data from Cardno ERI (Exxon/Mobil's consultant) for wells MW-6, MW-7 and MW-8 on the Former Exxon/Mobil Jalk Fee Property to the north. The Cardno's data, as provided, are attached hereto. Cardno conducted groundwater sampling on the same day as Fero on May 3, 2012. The resulting data have been incorporated with Fero's data to generate groundwater flow contours and chemical iso-concentration plots for the seven organics with a sufficient number of data points to provide reasonable plots (PCE, TCE, 1,1-DCA, 1,2-DCA, 1,1-DCE, cis 1,2-DCE, and VC). Those plots are attached as Figures 2-8. The groundwater flow direction continues to be in a southerly direction from Exxon/Mobil to the Continental Heat Treat.

The next semi-annual sampling event will likely occur sometime during November 2012. Fero will again coordinate the sampling event with the Cardno ERI, consultants for adjacent Exxon/Mobil in an effort to develop data that can help to explain conditions proximate to the two sites. Should you have any questions regarding the content of this Semi-Annual Groundwater Monitoring Report, please do not hesitate to call the undersigned at (714) 256-2737.

Respectfully,
Fero Environmental Engineering, Inc.

Rick L. Fero, P.E.
President

RLF: slf
[758wellmon512]

**Table 1**
Summary of Groundwater Elevation
**Continental Heat Treating**
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)

| Well Number | Date | TOC Elevation (ft MSL) | Depth to Groundwater (ft) | Groundwater Elevation (ft MSL) |
|---|---|---|---|---|
| MW1 | 3/29/11 | 137.07 | 97.16 | 39.91 |
| | 6/15/11 | | 94.50 | 42.57 |
| | 9/20/11 | | 91.81 | 45.26 |
| | 12/23/11 | 137.08 | 90.13 | 46.95 |
| | 5/3/12 | | 88.46 | 48.62 |
| MW2 | 3/29/11 | 137.43 | 96.45 | 40.98 |
| | 6/15/11 | | 93.74 | 43.69 |
| | 9/20/11 | | 91.06 | 46.37 |
| | 12/23/11 | 138.04 | 90.05 | 47.99 |
| | 5/3/12 | | 88.43 | 49.61 |
| MW3 | 3/29/11 | 137.71 | 96.42 | 41.29 |
| | 6/15/11 | | 93.94 | 43.77 |
| | 9/20/11 | | 91.12 | 46.59 |
| | 12/23/11 | 137.03 | 89.43 | 47.60 |
| | 5/3/12 | | 87.69 | 49.34 |
| MW4 | 12/23/11 | 137.55 | 89.43 | 48.12 |
| | 5/3/12 | | 87.69 | 49.86 |

**Table 2**
Summary of Groundwater Analyses
**Continental Heat Treating**
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)
(µg/L)
(DL – 0.5 µg/L)

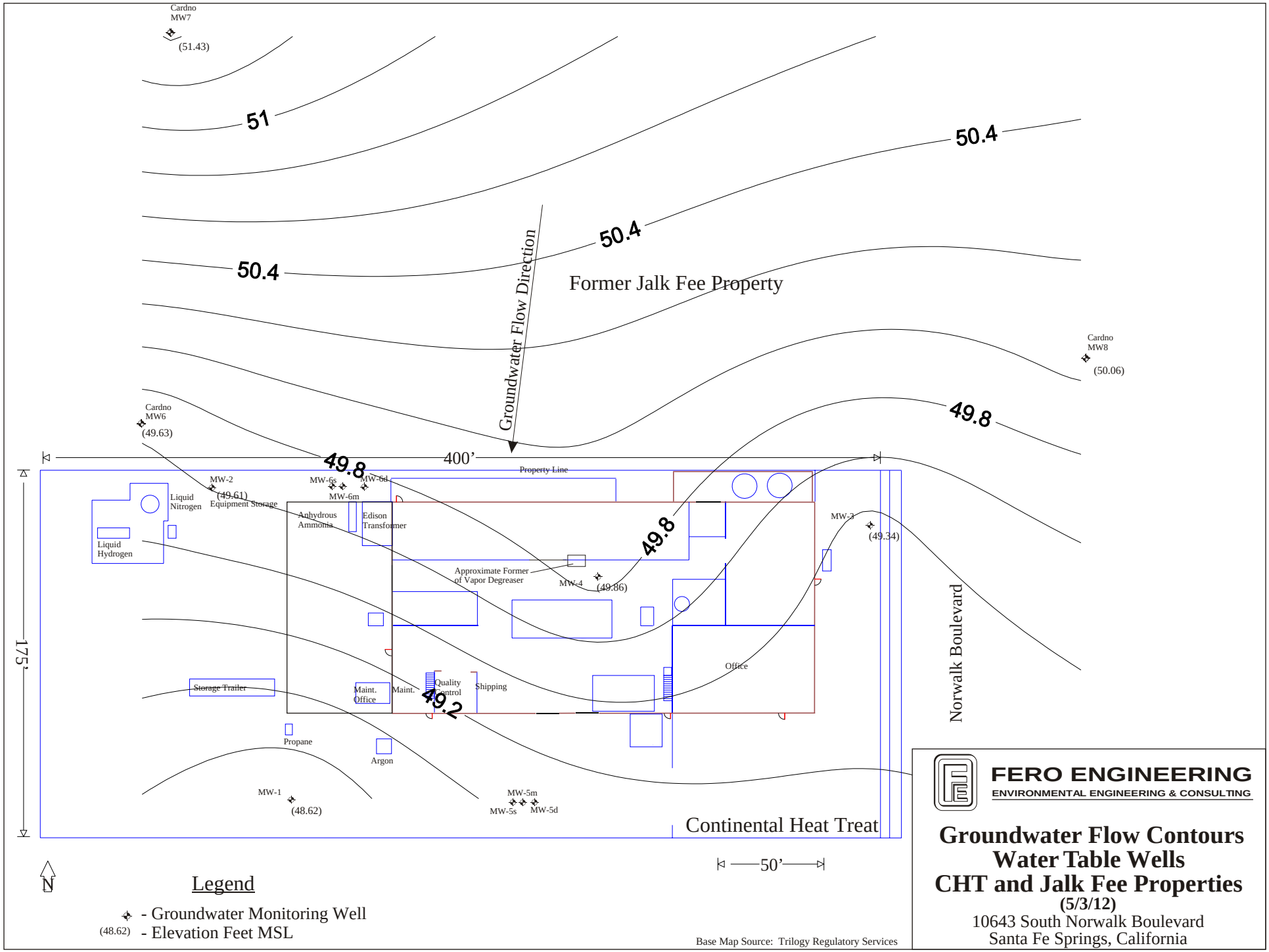
| Well | Date | Ben | Chl | 1,4-DCB | 1,1-DCA | cis-1,2-DCE | t-1,2-DCE | 1,2-DCA | 1,1-DCE | HCB | NAP | 1,1,2,2-TCA | PCE | 1,2,3-TCB | 1,2,4-TCB | TCE | TFM | VC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 8/20/10 | ND | 0.97 | ND | 17.3 | 12.2 | ND | 113 | 224 | ND | ND | ND | 184 | ND | ND | 154 | 2.79 | 5.96 |
| | 3/29/11 | ND | 1.02 | ND | 17.7 | 600 | 14.9 | ND | 184 | ND | ND | ND | 210 | ND | ND | 170 | 5.54 | 27.8 |
| | 6/15/11 | ND | 1.50 | ND | 14.1 | 85.1 | 2.06 | ND | 117 | ND | ND | ND | 228 | ND | ND | 167 | 5.51 | 3.13 |
| | 9/23/11 | ND | 4.20 | ND | 25.3 | 118 | 2.14 | ND | 191 | ND | ND | ND | 182 | ND | ND | 164 | 13.2 | 3.50 |
| | 12/23/11 | ND | 3.33 | ND | 16.3 | 147 | 1.92 | 2.66 | 85.3 | ND | 1.90 | ND | 201 | ND | ND | 164 | 6.74 | 1.51 |
| | 5/3/12 | ND | 6.15 | ND | 32.2 | 433 | 6.80 | 4.96 | 191 | ND | ND | ND | 196 | ND | ND | 224 | 13.6 | 10.0 |
| MW2 | 8/20/10 | ND | 1.71 | 0.78 | 21.8 | 59.6 | 0.76 | 5.43 | 126 | 1.14 | 2.47 | 0.92 | 235 | 2.72 | 1.24 | 178 | 9.49 | 0.89 |
| | 3/29/11 | ND | 1.89 | ND | 22.8 | 55.1 | ND | 2.74 | 161 | 1.14 | ND | ND | 214 | ND | ND | 158 | 10.0 | 0.53 |
| | 6/15/11 | ND | 3.07 | ND | 24.2 | 85.3 | 1.53 | 4.83 | 149 | ND | ND | ND | 338 | ND | ND | 172 | 13.1 | 3.09 |
| | 9/23/11 | ND | 5.08 | ND | 28.1 | 100 | 2.09 | 5.88 | 177 | ND | ND | ND | 245 | ND | ND | 161 | 21.3 | 4.01 |
| | 12/23/11 | ND | 3.66 | ND | 18.3 | 53.0 | 0.65 | 2.69 | 77.6 | NC | ND | ND | 252 | ND | ND | 148 | 10/6 | ND |
| | 5/3/12 | ND | 8.72 | ND | 41.9 | 92.8 | 0.54 | 5.21 | 194 | ND | ND | ND | 177 | ND | ND | 163 | 24.2 | ND |
| MW3 | 8/20/10 | 4.50 | ND | ND | 6.19 | 38.9 | 4.13 | ND | 57.1 | 1.18 | 2.43 | ND | 56.9 | 3.26 | 1.29 | 160 | 1.22 | ND |
| | 3/29/11 | 3.17 | ND | ND | 11.7 | 49.0 | 4.41 | ND | 185 | ND | ND | ND | 82.2 | ND | ND | 200 | 4.75 | 3.78 |
| | 6/15/11 | 1.01 | 0.91 | ND | 12.1 | 41.8 | 11.2 | ND | 124 | ND | ND | ND | 151 | ND | ND | 149 | 5.26 | 1.71 |
| | 9/23/11 | ND | 1.30 | ND | 14.3 | 43.6 | 13.6 | ND | 146 | ND | ND | ND | 120 | ND | ND | 130 | 7.45 | 1.32 |
| | 12/23/11 | ND | 1.61 | ND | 9.57 | 32.6 | 8.33 | ND | 62.1 | ND | ND | ND | 143 | ND | ND | 133 | 5.33 | ND |
| | 5/3/12 | ND | 5.81 | ND | 25.4 | 77.8 | 15.7 | 0.65 | 190 | ND | ND | ND | 137 | ND | ND | 165 | 13.3 | 1.35 |
| MW4 | 12/23/11 | ND | 0.54 | ND | 3.61 | 172 | 5.47 | ND | 16.9 | ND | 3.05 | ND | 36.0 | ND | ND | 21.9 | ND | 8.20 |
| | 1/10/12 | ND | ND | ND | 5.08 | 62.2 | 2.88 | ND | 25.6 | ND | 3.22 | ND | 70.1 | ND | ND | 47.5 | ND | 3.51 |
| | 5/3/12 | ND | 2.29 | ND | 20.9 | 284 | 9.63 | 0.54 | 148 | ND | ND | ND | 93.0 | ND | ND | 90.3 | 3.51 | 18.5 |

DL – detection limit, ND = Not Detected at DL , Ben - Benzene, Chl - Chloroform, DCB - Dichlorobenzene, DCA – Dichloroethane, DCE – Dichlorethene, HCB – Hexachlorobutadiene, NAP – Naphalene, TCA – Tetracholoroethane, PCE – Tetrachloroethene, TCB – Tricholorobenzene, TCE – Trichloroethene, TFM – Trichlorofluoromethane , VC – Vinyl Chloride

**Table 2**
**(cont.)**
Summary of Groundwater Analyses
**Continental Heat Treating**
10643 Norwalk Boulevard, Santa Fe Springs, California
(Site Id. No. 204GW00, SCP No. 1057)
(µg/L)
(DL – 0.5 µg/L)

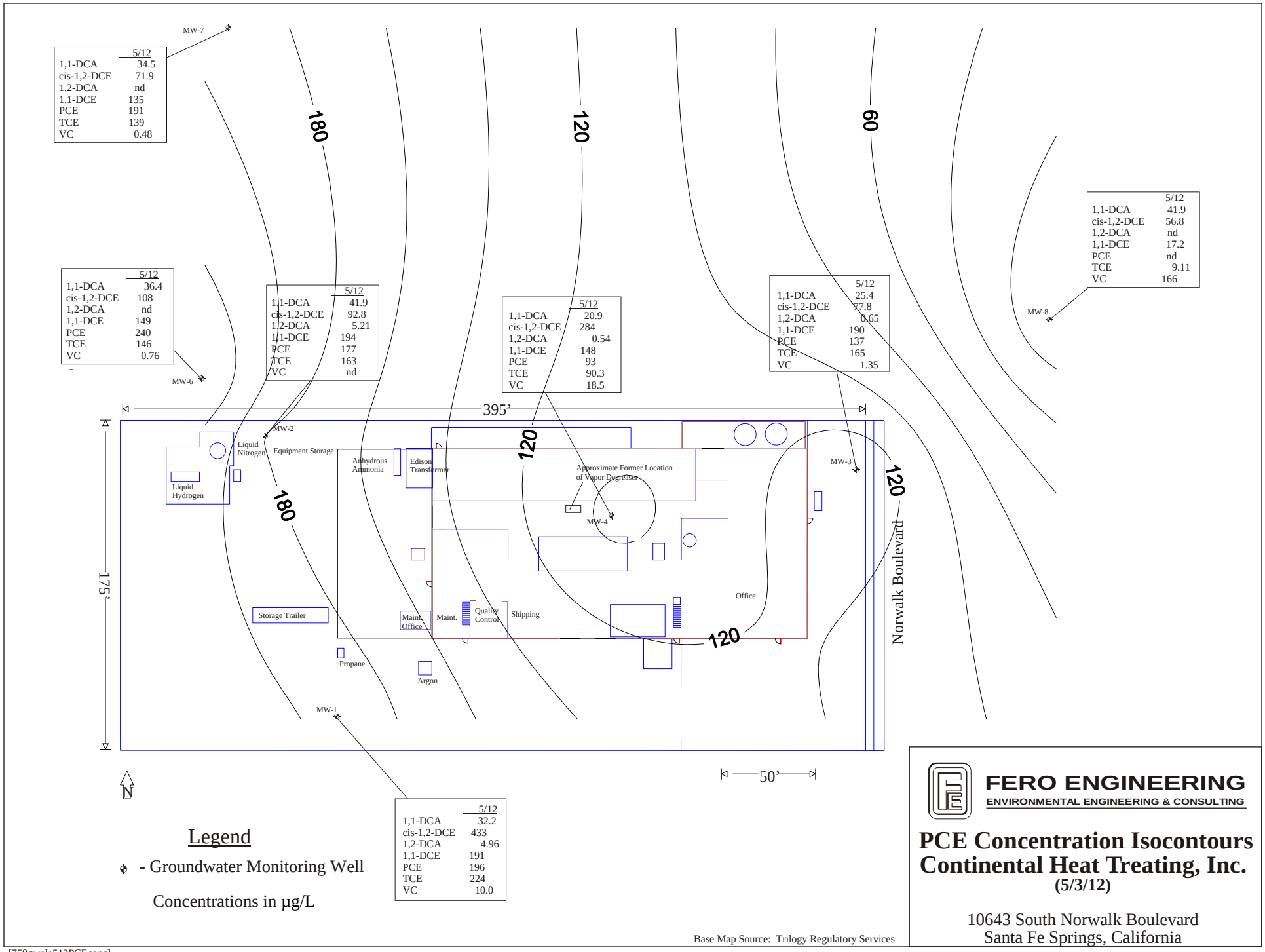
| Well | Date | Toluene | Sec-BBen | Ethyl Ben | IPB | 4 IPT | n PBen | 1,2,4-TMB | Xylene | 111TCA |
|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 12/23/11 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 5/3/12 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW2 | 12/23/11 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 5/3/12 | ND | ND | ND | ND | ND | ND | ND | ND | 1.14 |
| MW3 | 12/23/11 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 5/3/12 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW4 | 12/23/11 | 1.50 | 3.72 | 1.42 | 7.02 | 0.65 | 7.03 | ND | ND | |
| | 1/10/12 | ND | 2.71 | 1.61 | 6.04 | ND | 6.30 | 1.31 | 1.20 | |
| | 5/3/12 | ND | 2.18 | 1.41 | 4.14 | ND | 3.17 | ND | ND | ND |

DL – detection limit, ND = Not Detected at DL , sec-BBen – sec-Butylbenzene, EthylBen – Ethylbenzene, IPB - Isopropylbenzene, 4 IPT – 4- Isopropyltoluene, n PBen – n-Propylbenzene




[758gwele5312]

Figure 1

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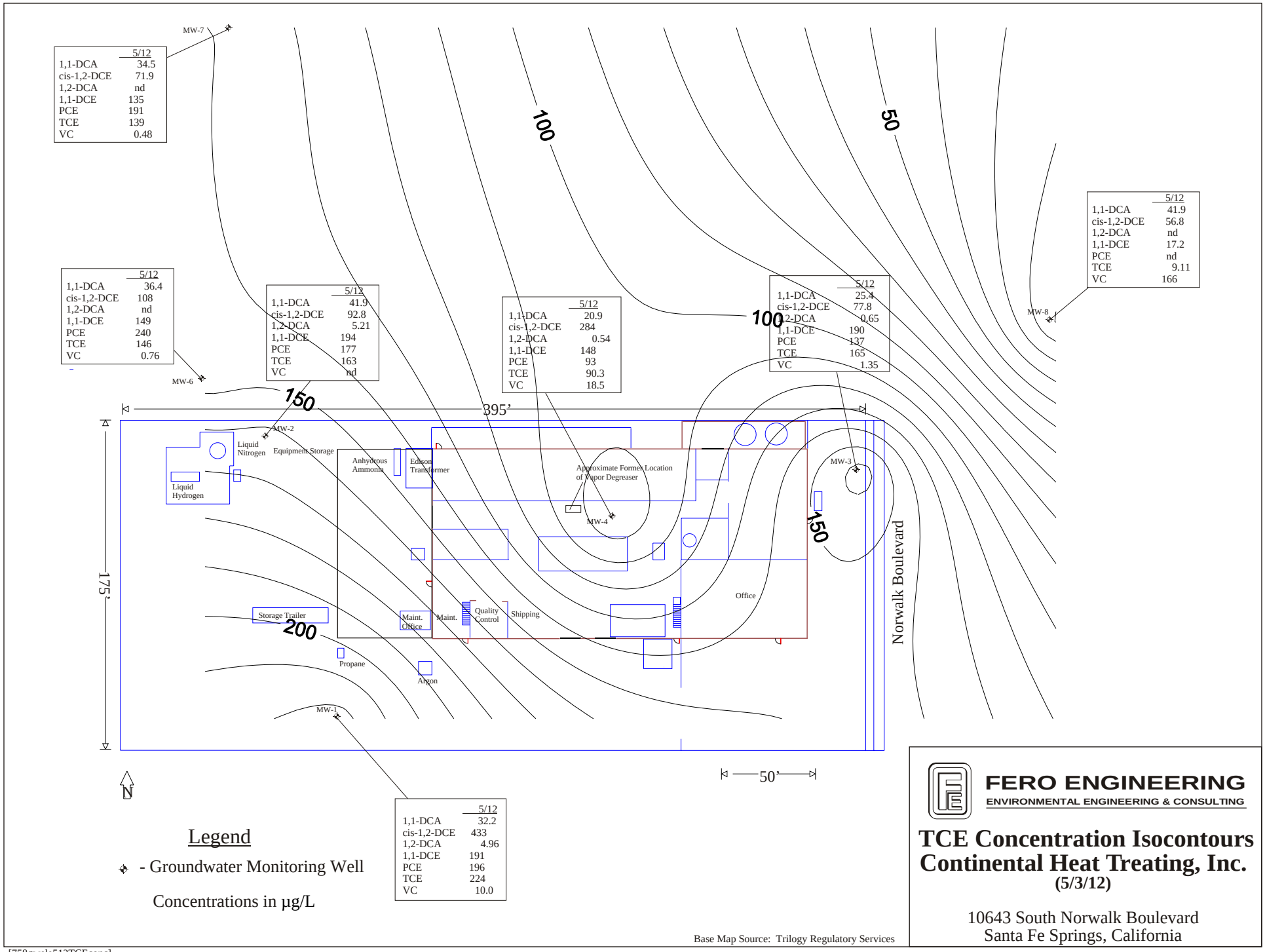
**PCE Concentration Isocontours**
**Continental Heat Treating, Inc.**
**(5/3/12)**

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758gwele512PCEconc]

Figure 2

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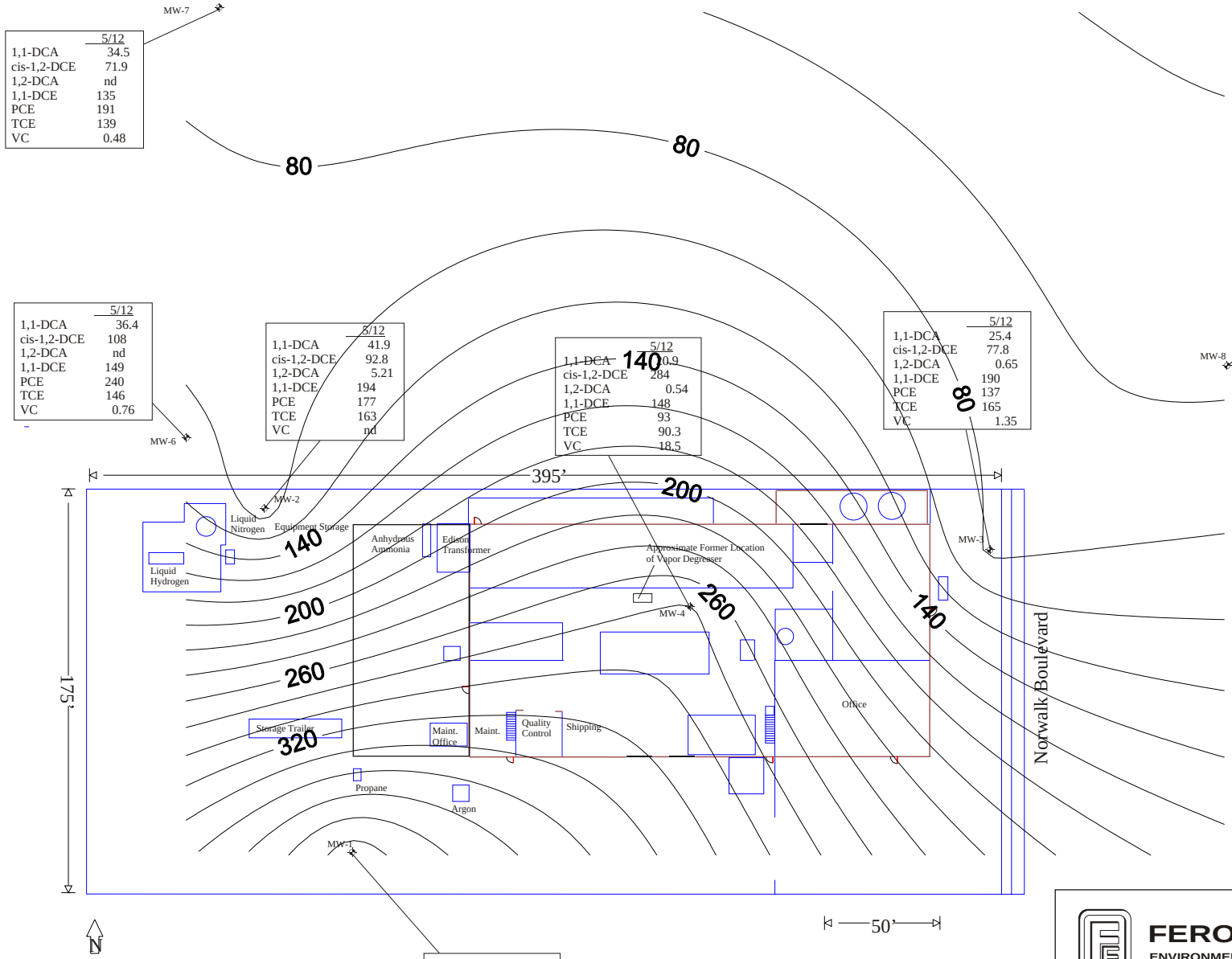
# TCE Concentration Isocontours
# Continental Heat Treating, Inc.
**(5/3/12)**

10643 South Norwalk Boulevard
Santa Fe Springs, California

[758gwele512TCEconc]

Figure 3




Legend

- Groundwater Monitoring Well

Concentrations in µg/L

Base Map Source: Trilogy Regulatory Services

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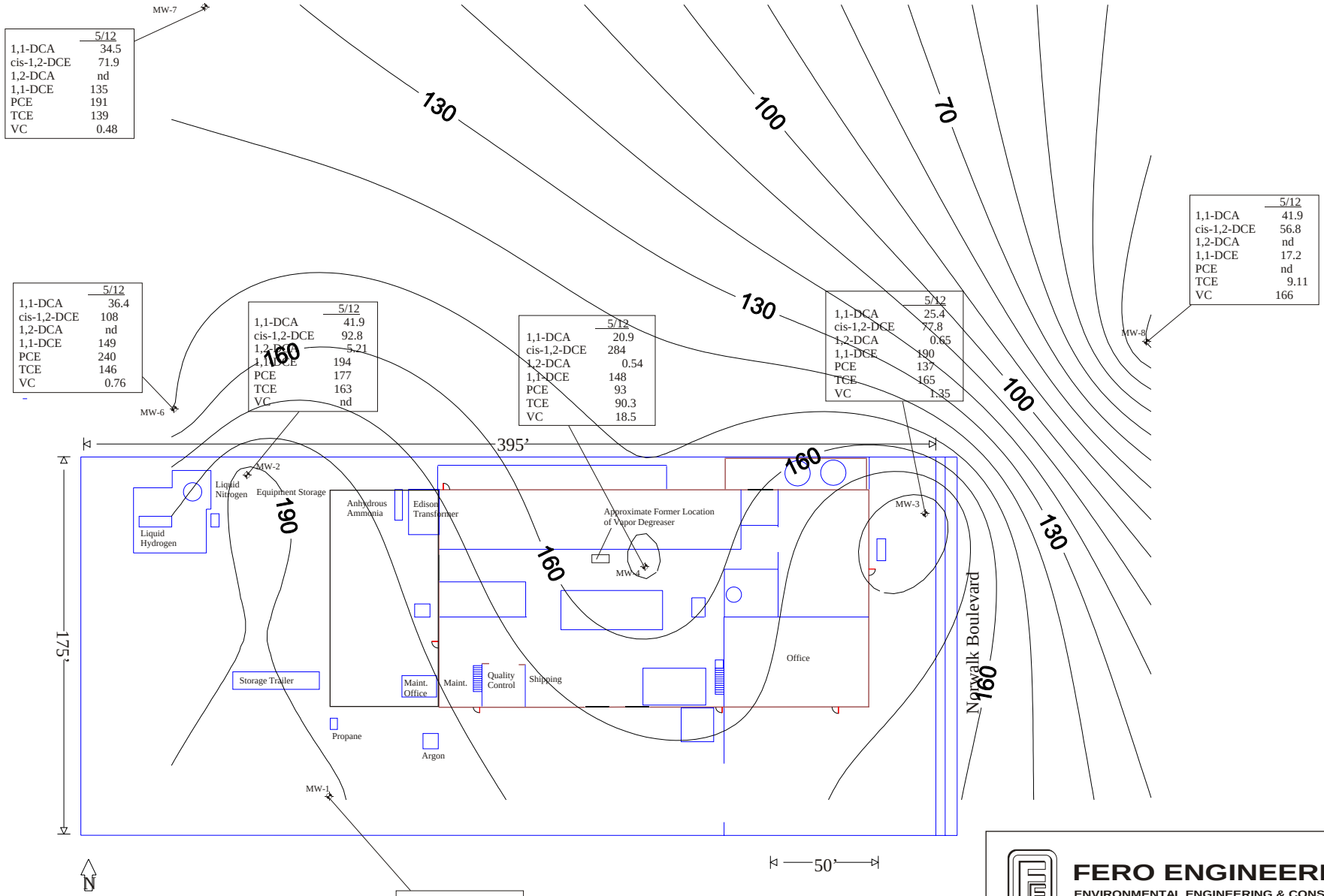
**cis 1,2-DCE Concentration Isocontours**
**Continental Heat Treating, Inc.**
**(5/3/12)**
10643 South Norwalk Boulevard
Santa Fe Springs, California

[758gwele512cisDCEconc]

Figure 4




Base Map Source: Trilogy Regulatory Services

**FERO ENGINEERING**
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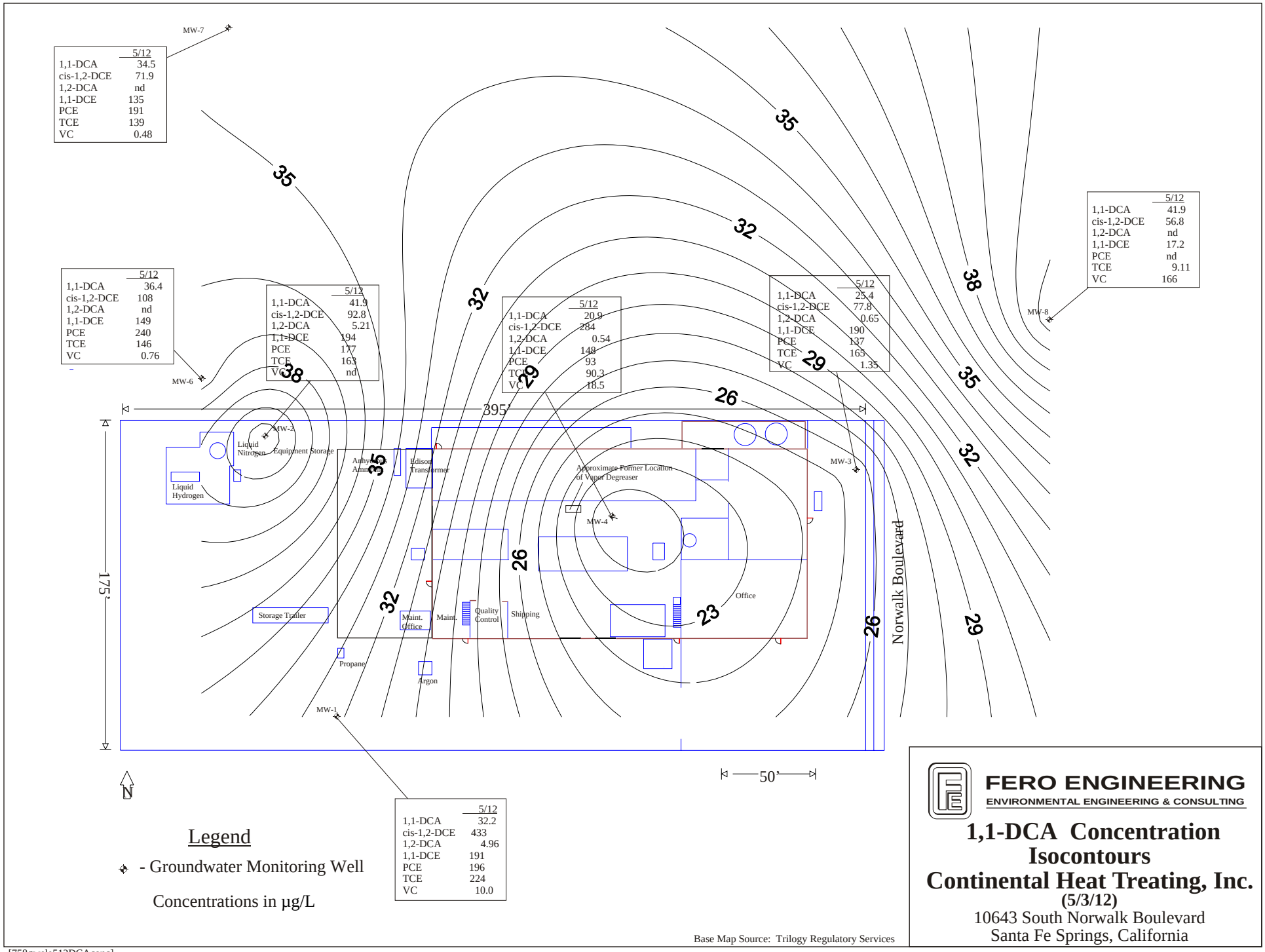
# 1,1-DCE Concentration Isocontours
# Continental Heat Treating, Inc.
**(5/3/12)**
10643 South Norwalk Boulevard
Santa Fe Springs, California

[758gwele51211DCEconc]

Figure 5

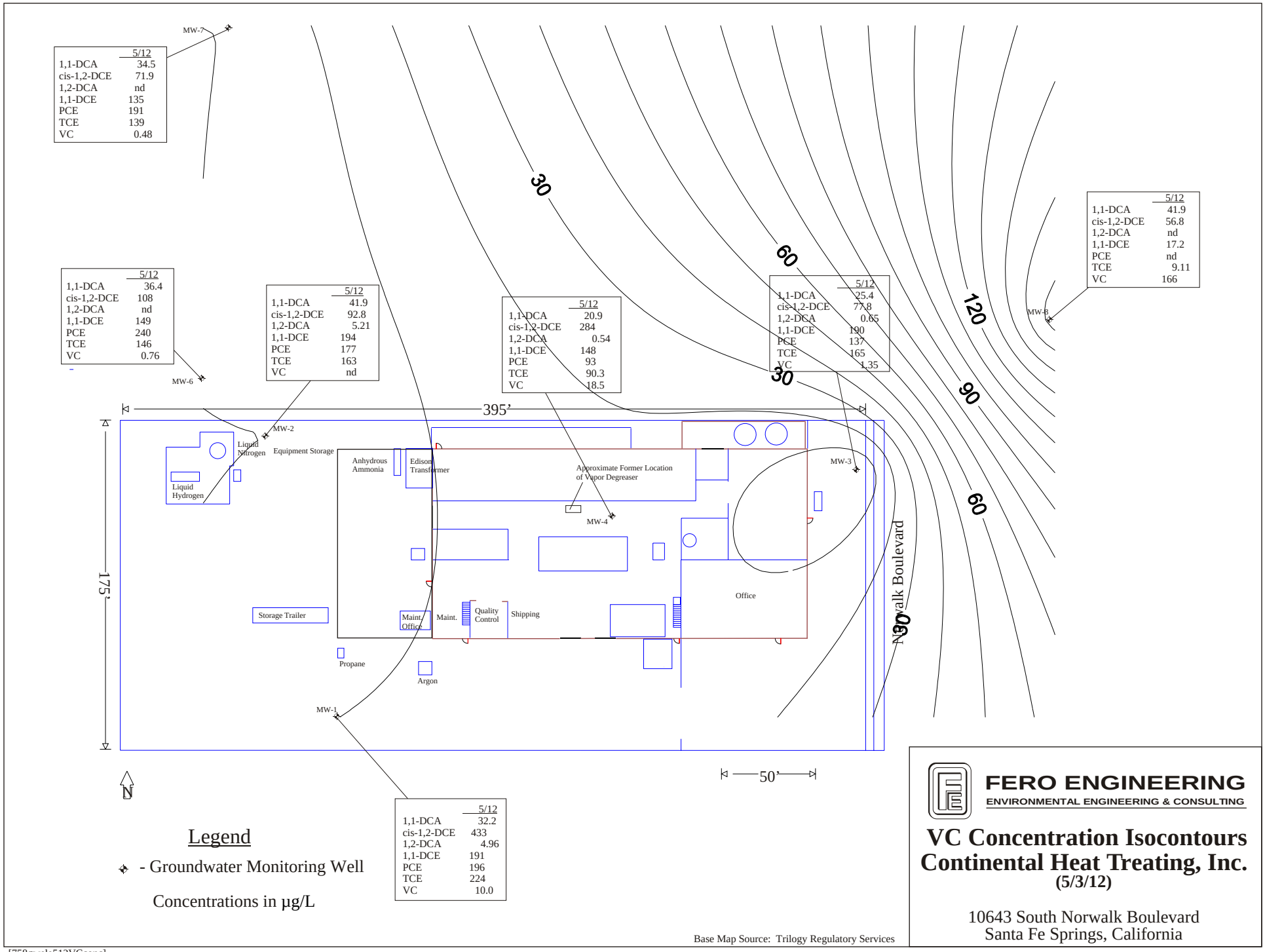



**FERO ENGINEERING**
ENVIRONMENTAL ENGINEERING & CONSULTING

# 1,1-DCA Concentration Isocontours
# Continental Heat Treating, Inc.
**(5/3/12)**
10643 South Norwalk Boulevard
Santa Fe Springs, California

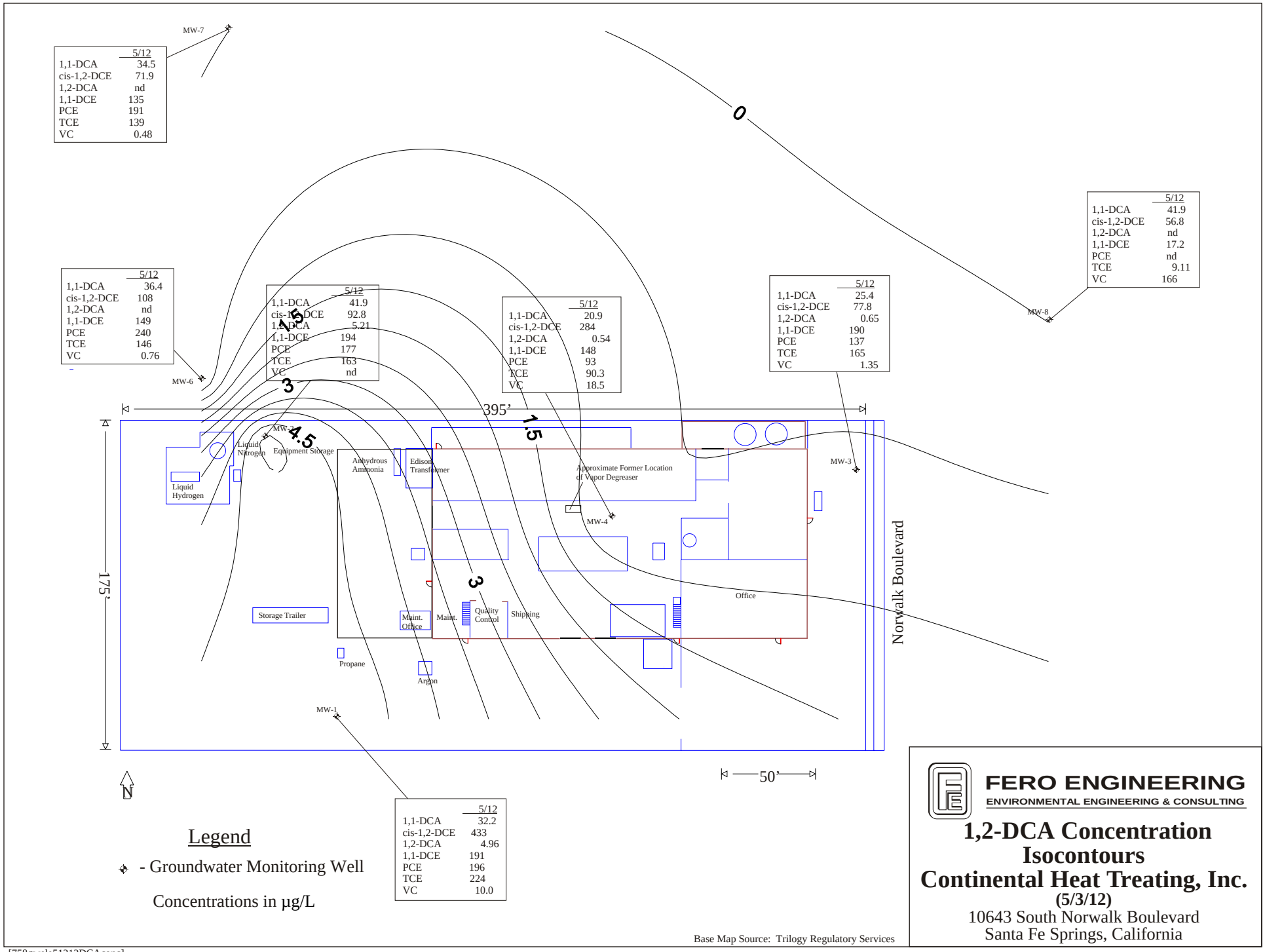
[758gwele512DCAconc]

Figure 6




[758gwele512VCconc]

Figure 7




[758gwele51212DCAconc]

Figure 8

ATTACHMENT A

Well Purge Report

# Groundwater Well Monitoring Data

| | | | |
|---|---|---|---|
| **Site:** | Continental Heat Treating | **Job Number:** | 10-0758 |
| **Well I.D.:** | MW1 | **Date:** | 5/3/12 |
| **DTGW:** | 88.46’ | **Time Sampled:** | 2:40 pm |

**Purge Data**

| Volume (gal.) | Temp (F) | pH | Conductance (µmho) |
|---|---|---|---|
| 5 | 74.6 | 7.28 | 1309 |
| 10 | 73.8 | 7.21 | 1327 |
| 15 | 73.0 | 7.14 | 1352 |
| 20 | 73.3 | 7.11 | 1375 |
| 25 | 72.9 | 7.09 | 1389 |

**Groundwater Well Monitoring Data**

| | | | |
|---|---|---|---|
| **Site:** | Continental Heat Treating | **Job Number:** | 10-0758 |
| **Well I.D.:** | MW2 | **Date:** | 5/3/12 |
| **DTGW:** | 88.43’ | **Time Sampled:** | 1:23 pm |

**Purge Data**

| Volume (gal.) | Temp (F) | pH | Conductance (µmho) |
|---|---|---|---|
| 5 | 74.0 | 7.18 | 1378 |
| 10 | 73.9 | 7.11 | 1355 |
| 15 | 73.3 | 7.13 | 1375 |
| 20 | 73.1 | 7.09 | 1366 |
| 25 | 72.6 | 7.09 | 1364 |

**Groundwater Well Monitoring Data**

| | | | |
|---|---|---|---|
| **Site:** | Continental Heat Treating | **Job Number:** | 10-0758 |
| **Well I.D.:** | MW3 | **Date:** | 5/3/12 |
| **DTGW:** | 87.69’ | **Time Sampled:** | 2:00 pm |

**Purge Data**

| Volume (gal.) | Temp (F) | pH | Conductance (µmho) |
|---|---|---|---|
| 5 | 72.8 | 7.03 | 1435 |
| 10 | 73.5 | 7.01 | 1451 |
| 15 | 73.6 | 7.01 | 1458 |
| 20 | 73.7 | 7.02 | 1451 |
| 25 | 73.5 | 7.03 | 1456 |

# Groundwater Well Monitoring Data

| | | | |
|---|---|---|---|
| **Site:** | Continental Heat Treating | **Job Number:** | 10-0758 |
| **Well I.D.:** | MW4 | **Date:** | 5/3/12 |
| **DTGW:** | 87.69’ | **Time Sampled:** | 3:15 pm |

**Purge Data**

| Volume (gal.) | Temp (F) | pH | Conductance (µmho) |
|---|---|---|---|
| 5 | 74.3 | 6.98 | 1181 |
| 10 | 74.3 | 6.92 | 1319 |
| 15 | 75.1 | 6.88 | 1790 |
| 20 | | | |
| 25 | | | |

ATTACHMENT B

Enviro-Chem Laboratory Report

**Enviro - Chem, Inc.**
*1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907*

Date: May 9, 2012

Mr. John Petersen
Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

Project: **Continental Heat Treating / 12-758**
Lab ID: **120503-38,39,40,41**

Dear Mr. Petersen:

The **analytical results** for the water samples, received by our laboratory on May 3, 2012, are attached. All samples were received chilled, intact, and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT FORM

LABORATORY NAME: ENVIRO-CHEM, INC.

ADDRESS: 1214 E. LEXINGTON AVE., POMONA, CA 91766

LABORATORY CERTIFICATION
(ELAP) No.: 1555 EXPIRATION DATE: 06/30/2013

LABORATORY DIRECTOR'S NAME: CURTIS DESILETS

LABORATORY'S DIRECTOR SIGNATURE: _____

CLIENT: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

PROJECT: Continental Heat Treating / 12-758

ANALYTICAL METHODS: EPA 5030B/8260B(VOCs)

SAMPLING DATE(S): 05/03/12 DATE RECEIVED: 05/03/12

DATE REPORTED: 05/09/12 SAMPLE MATRIX: WATER

EXTRACTION METHOD: SEE ATTACHMENTS

EXTRACTION MATERIAL: PER THE METHODS

CHAIN OF CUSTODY RECEIVED: YES NO

---- SAMPLE HEADSPACE DESCRIPTION (%): 0 %

---- SAMPLE CONTAINER MATERIAL: 40 ML VOA VIALS (8)

*Enviro – Chem, Inc.*
*1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

**LABORATORY REPORT FORM (COVER PAGE 2)**

| ORGANIC ANALYSES | # OF SAMPLES | # OF SAMPLES SUBCONTRACTED |
|---|---|---|
| | 4 | 0 |

SAMPLE CONDITION: CHILLED, INTACT, % HEADSPACE: 0%

| INORGANIC ANALYSES | # OF SAMPLES | # OF SAMPLES SUBCONTRACTED |
|---|---|---|
| | 0 | 0 |

SAMPLE CONDITION:

| MICROBIOLOGICAL ANALYSES | # OF SAMPLES | # OF SAMPLES SUBCONTRACTED |
|---|---|---|
| | 0 | 0 |

SAMPLE CONDITION:

| OTHER TYPES OF ANALYSES | # OF SAMPLES | # OF SAMPLES SUBCONTRACTED |
|---|---|---|
| | 0 | 0 |

SAMPLE CONDITION:

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-38 |
| CLIENT SAMPLE I.D. | MW1 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| ACETONE | 2.0 | ND | ND |
| BENZENE | 0.5 | ND | ND |
| BROMOBENZENE | 0.5 | ND | ND |
| BROMOCHLOROMETHANE | 0.5 | ND | ND |
| BROMODICHLOROMETHANE | 0.5 | ND | ND |
| BROMOFORM | 0.5 | ND | ND |
| BROMOMETHANE | 0.5 | ND | ND |
| 2-BUTANONE (MEK) | 2.0 | ND | ND |
| N-BUTYLBENZENE | 0.5 | ND | ND |
| SEC-BUTYLBENZENE | 0.5 | ND | ND |
| TERT-BUTYLBENZENE | 0.5 | ND | ND |
| CARBON DISULFIDE | 2.0 | ND | ND |
| CARBON TETRACHLORIDE | 0.5 | ND | ND |
| CHLOROBENZENE | 0.5 | ND | ND |
| CHLOROETHANE | 0.5 | ND | ND |
| CHLOROFORM | 0.5 | ND | 6.15 |
| CHLOROMETHANE | 0.5 | ND | ND |
| 2-CHLOROTOLUENE | 0.5 | ND | ND |
| 4-CHLOROTOLUENE | 0.5 | ND | ND |
| DIBROMOCHLOROMETHANE | 0.5 | ND | ND |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DIBROMOETHANE | 0.5 | ND | ND |
| DIBROMOMETHANE | 0.5 | ND | ND |
| 1,2-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,3-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,4-DICHLOROBENZENE | 0.5 | ND | ND |

- CONTINUED -

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# LABORATORY REPORT

METEOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-38 |
| CLIENT SAMPLE I.D. | MW1 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | 0.5 | ND | ND |
| 1,1 DICHLOROETHANE | 0.5 | ND | 32.2 |
| CIS-1,2-DICHLOROETHENE | 0.5 | ND | 433 (DF=5) |
| TRANS-1,2-DICHLOROETHENE | 0.5 | ND | 6.80 |
| 1,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DICHLOROETHANE | 0.5 | ND | 4.96 |
| 1,1-DICHLOROETHENE | 0.5 | ND | 191 (DF=5) |
| 1,3-DICHLOROPROPANE | 0.5 | ND | ND |
| 2,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,1-DICHLOROPROPENE | 0.5 | ND | ND |
| CIS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| TRANS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| ETHYLBENZENE | 0.5 | ND | ND |
| 2-HEXANONE | 2.0 | ND | ND |
| HEXACHLOROBUTADIENE | 0.5 | ND | ND |
| IODOMETHANE | 0.5 | ND | ND |
| ISOPROPYLBENZENE | 0.5 | ND | ND |
| 4-ISOPROPYLTOLUENE | 0.5 | ND | ND |
| 4-METHYL-2-PENTANONE (MIBK) | 2.0 | ND | ND |
| METHYL tert-BUTYL ETHER | 0.5 | ND | ND |
| METHYLENE CHLORIDE | 2.0 | ND | ND |
| NAPHTHALENE | 0.5 | ND | ND |
| N PROPYLBENZENE | 0.5 | ND | ND |
| STYRENE | 0.5 | ND | ND |
| 1,1,1,2-TETRACHLOROETHANE | 0.5 | ND | ND |

- CONTINUED -

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 3 OF 3 PAGES PROJECT: **Continental Heat Treating / 12-758**

CUSTOMER: **Fero Environmental Engineering, Inc.**
**431 W. Lambert Road, Suite 305**
**Brea, CA 92821**
**Tel(714)256-2737 Fax(714)256-1505**

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| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-38 |
| CLIENT SAMPLE I.D. | MW1 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| 1,1,2,2-TETRACHLOROETHANE | 0.5 | ND | ND |
| TETRACHLOROETHENE (PCE) | 0.5 | ND | 196 (DF=5) |
| TOLUENE | 0.5 | ND | ND |
| 1,2,3-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,2,4-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,1,1-TRICHLOROETHANE | 0.5 | ND | ND |
| 1,1,2 TRICHLOROETHANE | 0.5 | ND | ND |
| TRICHLOROETHENE (TCE) | 0.5 | ND | 224 (DF=5) |
| TRICHLOROFLUOROMETHANE | 0.5 | ND | 13.6 |
| 1,2,3-TRICHLOROPROPANE | 0.5 | ND | ND |
| 1,2,4-TRIMETHYLBENZENE | 0.5 | ND | ND |
| 1,3,5-TRIMETHYLBENZENE | 0.5 | ND | ND |
| VINYL CHLORIDE | 0.5 | ND | 10.0 |
| M,P-XYLENE | 1.0 | ND | ND |
| O-XYLENE | 0.5 | ND | ND |

uG/L = MICROGRAM PER LITER = PPB
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
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DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

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|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-39 |
| CLIENT SAMPLE I.D. | MW2 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| ACETONE | 2.0 | ND | ND |
| BENZENE | 0.5 | ND | ND |
| BROMOBENZENE | 0.5 | ND | ND |
| BROMOCHLOROMETHANE | 0.5 | ND | ND |
| BROMODICHLOROMETHANE | 0.5 | ND | ND |
| BROMOFORM | 0.5 | ND | ND |
| BROMOMETHANE | 0.5 | ND | ND |
| 2-BUTANONE (MEK) | 2.0 | ND | ND |
| N-BUTYLBENZENE | 0.5 | ND | ND |
| SEC-BUTYLBENZENE | 0.5 | ND | ND |
| TERT-BUTYLBENZENE | 0.5 | ND | ND |
| CARBON DISULFIDE | 2.0 | ND | ND |
| CARBON TETRACHLORIDE | 0.5 | ND | ND |
| CHLOROBENZENE | 0.5 | ND | ND |
| CHLOROETHANE | 0.5 | ND | ND |
| CHLOROFORM | 0.5 | ND | 8.72 |
| CHLOROMETHANE | 0.5 | ND | ND |
| 2 CHLOROTOLUENE | 0.5 | ND | ND |
| 4-CHLOROTOLUENE | 0.5 | ND | ND |
| DIBROMOCHLOROMETHANE | 0.5 | ND | ND |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DIBROMOETHANE | 0.5 | ND | ND |
| DIBROMOMETHANE | 0.5 | ND | ND |
| 1,2-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,3-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,4-DICHLOROBENZENE | 0.5 | ND | ND |

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

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|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-39 |
| CLIENT SAMPLE I.D. | MW2 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | 0.5 | ND | ND |
| 1,1-DICHLOROETHANE | 0.5 | ND | 41.9 |
| CIS-1,2-DICHLOROETHENE | 0.5 | ND | 92.8 |
| TRANS-1,2-DICHLOROETHENE | 0.5 | ND | 0.54 |
| 1,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,2 DICHLOROETHANE | 0.5 | ND | 5.21 |
| 1,1-DICHLOROETHENE | 0.5 | ND | 194 (DF=5) |
| 1,3-DICHLOROPROPANE | 0.5 | ND | ND |
| 2,2 DICHLOROPROPANE | 0.5 | ND | ND |
| 1,1-DICHLOROPROPENE | 0.5 | ND | ND |
| CIS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| TRANS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| ETHYLBENZENE | 0.5 | ND | ND |
| 2-HEXANONE | 2.0 | ND | ND |
| HEXACHLOROBUTADIENE | 0.5 | ND | ND |
| IODOMETHANE | 0.5 | ND | ND |
| ISOPROPYLBENZENE | 0.5 | ND | ND |
| 4 ISOPROPYLTOLUENE | 0.5 | ND | ND |
| 4-METHYL-2-PENTANONE (MIBK) | 2.0 | ND | ND |
| METHYL tert-BUTYL ETHER | 0.5 | ND | ND |
| METHYLENE CHLORIDE | 2.0 | ND | ND |
| NAPHTHALENE | 0.5 | ND | ND |
| N-PROPYLBENZENE | 0.5 | ND | ND |
| STYRENE | 0.5 | ND | ND |
| 1,1,1,2-TETRACHLOROETHANE | 0.5 | ND | ND |

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

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| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-39 |
| CLIENT SAMPLE I.D. | MW2 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| 1,1,2,2-TETRACHLOROETHANE | 0.5 | ND | ND |
| TETRACHLOROETHENE (PCE) | 0.5 | ND | 177 (DF=5) |
| TOLUENE | 0.5 | ND | ND |
| 1,2,3-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,2,4-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,1,1-TRICHLOROETHANE | 0.5 | ND | 1.14 |
| 1,1,2-TRICHLOROETHANE | 0.5 | ND | ND |
| TRICHLOROETHENE (TCE) | 0.5 | ND | 163 |
| TRICHLOROFLUOROMETHANE | 0.5 | ND | 24.2 |
| 1,2,3-TRICHLOROPROPANE | 0.5 | ND | ND |
| 1,2,4-TRIMETHYLBENZENE | 0.5 | ND | ND |
| 1,3,5-TRIMETHYLBENZENE | 0.5 | ND | ND |
| VINYL CHLORIDE | 0.5 | ND | ND |
| M,P-XYLENE | 1.0 | ND | ND |
| O-XYLENE | 0.5 | ND | ND |

uG/L = MICROGRAM PER LITER = PPB
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: µG/L(PPB)
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
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| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-40 |
| CLIENT SAMPLE I.D. | MW3 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| ACETONE | 2.0 | ND | ND |
| BENZENE | 0.5 | ND | ND |
| BROMOBENZENE | 0.5 | ND | ND |
| BROMOCHLOROMETHANE | 0.5 | ND | ND |
| BROMODICHLOROMETHANE | 0.5 | ND | ND |
| BROMOFORM | 0.5 | ND | ND |
| BROMOMETHANE | 0.5 | ND | ND |
| 2-BUTANONE (MEK) | 2.0 | ND | ND |
| N-BUTYLBENZENE | 0.5 | ND | ND |
| SEC-BUTYLBENZENE | 0.5 | ND | ND |
| TERT-BUTYLBENZENE | 0.5 | ND | ND |
| CARBON DISULFIDE | 2.0 | ND | ND |
| CARBON TETRACHLORIDE | 0.5 | ND | ND |
| CHLOROBENZENE | 0.5 | ND | ND |
| CHLOROETHANE | 0.5 | ND | ND |
| CHLOROFORM | 0.5 | ND | 5.81 |
| CHLOROMETHANE | 0.5 | ND | ND |
| 2-CHLOROTOLUENE | 0.5 | ND | ND |
| 4-CHLOROTOLUENE | 0.5 | ND | ND |
| DIBROMOCHLOROMETHANE | 0.5 | ND | ND |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DIBROMOETHANE | 0.5 | ND | ND |
| DIBROMOMETHANE | 0.5 | ND | ND |
| 1,2-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,3-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,4 DICHLOROBENZENE | 0.5 | ND | ND |

- CONTINUED -

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Faro Environmental Engineering, Inc.
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DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-40 |
| CLIENT SAMPLE I.D. | MW3 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | 0.5 | ND | ND |
| 1,1-DICHLOROETHANE | 0.5 | ND | 25.4 |
| CIS-1,2-DICHLOROETHENE | 0.5 | ND | 77.9 |
| TRANS-1,2-DICHLOROETHENE | 0.5 | ND | 15.7 |
| 1,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DICHLOROETHANE | 0.5 | ND | 0.65 |
| 1,1-DICHLOROETHENE | 0.5 | ND | 190 |
| 1,3-DICHLOROPROPANE | 0.5 | ND | ND |
| 2,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,1-DICHLOROPROPENE | 0.5 | ND | ND |
| CIS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| TRANS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| ETHYLBENZENE | 0.5 | ND | ND |
| 2-HEXANONE | 2.0 | ND | ND |
| HEXACHLOROBUTADIENE | 0.5 | ND | ND |
| IODOMETHANE | 0.5 | ND | ND |
| ISOPROPYLBENZENE | 0.5 | ND | ND |
| 4-ISOPROPYLTOLUENE | 0.5 | ND | ND |
| 4-METHYL-2-PENTANONE (MIBK) | 2.0 | ND | ND |
| METHYL tert-BUTYL ETHER | 0.5 | ND | ND |
| METHYLENE CHLORIDE | 2.0 | ND | ND |
| NAPHTHALENE | 0.5 | ND | ND |
| N-PROPYLBENZENE | 0.5 | ND | ND |
| STYRENE | 0.5 | ND | ND |
| 1,1,1,2-TETRACHLOROETHANE | 0.5 | ND | ND |

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
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DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-40 |
| CLIENT SAMPLE I.D. | MW3 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 ML PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| 1,1,2,2-TETRACHLOROETHANE | 0.5 | ND | ND |
| TETRACHLOROETHENE (PCE) | 0.5 | ND | 137 |
| TOLUENE | 0.5 | ND | ND |
| 1,2,3-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,2,4-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,1,1-TRICHLOROETHANE | 0.5 | ND | ND |
| 1,1,2-TRICHLOROETHANE | 0.5 | ND | ND |
| TRICHLOROETHENE (TCE) | 0.5 | ND | 165 |
| TRICHLOROFLUOROMETHANE | 0.5 | ND | 13.3 |
| 1,2,3-TRICHLOROPROPANE | 0.5 | ND | ND |
| 1,2,4-TRIMETHYLBENZENE | 0.5 | ND | ND |
| 1,3,5-TRIMETHYLBENZENE | 0.5 | ND | ND |
| VINYL CHLORIDE | 0.5 | ND | 1.35 |
| M,P-XYLENE | 1.0 | ND | ND |
| O-XYLENE | 0.5 | ND | ND |

uG/L = MICROGRAM PER LITER = PPB
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
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DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-41 |
| CLIENT SAMPLE I.D. | MW4 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| ACETONE | 2.0 | ND | ND |
| BENZENE | 0.5 | ND | ND |
| BROMOBENZENE | 0.5 | ND | ND |
| BROMOCHLOROMETHANE | 0.5 | ND | ND |
| BROMODICHLOROMETHANE | 0.5 | ND | ND |
| BROMOFORM | 0.5 | ND | ND |
| BROMOMETHANE | 0.5 | ND | ND |
| 2 BUTANONE (MEK) | 2.0 | ND | ND |
| N-BUTYLBENZENE | 0.5 | ND | ND |
| SEC-BUTYLBENZENE | 0.5 | ND | 2.18 |
| TERT-BUTYLBENZENE | 0.5 | ND | ND |
| CARBON DISULFIDE | 2.0 | ND | ND |
| CARBON TETRACHLORIDE | 0.5 | ND | ND |
| CHLOROBENZENE | 0.5 | ND | ND |
| CHLOROETHANE | 0.5 | ND | ND |
| CHLOROFORM | 0.5 | ND | 2.29 |
| CHLOROMETHANE | 0.5 | ND | ND |
| 2-CHLOROTOLUENE | 0.5 | ND | ND |
| 4-CHLOROTOLUENE | 0.5 | ND | ND |
| DIBROMOCHLOROMETHANE | 0.5 | ND | ND |
| 1,2-DIBROMO-3-CHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DIBROMOETHANE | 0.5 | ND | ND |
| DIBROMOMETHANE | 0.5 | ND | ND |
| 1,2-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,3-DICHLOROBENZENE | 0.5 | ND | ND |
| 1,4-DICHLOROBENZENE | 0.5 | ND | ND |

- CONTINUED -

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# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

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| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-41 |
| CLIENT SAMPLE I.D. | MW4 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| DICHLORODIFLUOROMETHANE | 0.5 | ND | ND |
| 1,1-DICHLOROETHANE | 0.5 | ND | 20.9 |
| CIS-1,2-DICHLOROETHENE | 0.5 | ND | 284 (DF=5) |
| TRANS-1,2-DICHLOROETHENE | 0.5 | ND | 9.63 |
| 1,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,2-DICHLOROETHANE | 0.5 | ND | 0.54 |
| 1,1-DICHLOROETHENE | 0.5 | ND | 148 |
| 1,3 DICHLOROPROPANE | 0.5 | ND | ND |
| 2,2-DICHLOROPROPANE | 0.5 | ND | ND |
| 1,1-DICHLOROPROPENE | 0.5 | ND | ND |
| CIS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| TRANS-1,3-DICHLOROPROPENE | 0.5 | ND | ND |
| ETHYLBENZENE | 0.5 | ND | 1.41 |
| 2-HEXANONE | 2.0 | ND | ND |
| HEXACHLOROBUTADIENE | 0.5 | ND | ND |
| IODOMETHANE | 0.5 | ND | ND |
| ISOPROPYLBENZENE | 0.5 | ND | 4.14 |
| 4-ISOPROPYLTOLUENE | 0.5 | ND | ND |
| 4-METHYL-2-PENTANONE (MIBK) | 2.0 | ND | ND |
| METHYL tert-BUTYL ETHER | 0.5 | ND | ND |
| METHYLENE CHLORIDE | 2.0 | ND | ND |
| NAPHTHALENE | 0.5 | ND | ND |
| N-PROPYLBENZENE | 0.5 | ND | 3.17 |
| STYRENE | 0.5 | ND | ND |
| 1,1,1,2-TETRACHLOROETHANE | 0.5 | ND | ND |

- CONTINUED -

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 05/03/12 DATE RECEIVED: 05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |
| LAB SAMPLE I.D. | 120503-41 |
| CLIENT SAMPLE I.D. | MW4 |
| EXTRACTION SOLVENT | HELIUM GAS/WATER |
| EXTRACTION METHOD | EPA 5030B |
| DILUTION FACTOR (DF) | NONE (15 MLs PURGED) |

| COMPOUND | CRDL | MB | RESULT |
|---|---|---|---|
| 1,1,2,2-TETRACHLOROETHANE | 0.5 | ND | ND |
| TETRACHLOROETHENE (PCE) | 0.5 | ND | 93.0 |
| TOLUENE | 0.5 | ND | ND |
| 1,2,3-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,2,4-TRICHLOROBENZENE | 0.5 | ND | ND |
| 1,1,1-TRICHLOROETHANE | 0.5 | ND | ND |
| 1,1,2-TRICHLOROETHANE | 0.5 | ND | ND |
| TRICHLOROETHENE (TCE) | 0.5 | ND | 90.3 |
| TRICHLOROFLUOROMETHANE | 0.5 | ND | 3.51 |
| 1,2,3-TRICHLOROPROPANE | 0.5 | ND | ND |
| 1,2,4-TRIMETHYLBENZENE | 0.5 | ND | ND |
| 1,3,5-TRIMETHYLBENZENE | 0.5 | ND | ND |
| VINYL CHLORIDE | 0.5 | ND | 18.5 |
| M,P-XYLENE | 1.0 | ND | ND |
| O-XYLENE | 0.5 | ND | ND |

uG/L = MICROGRAM PER LITER = PPB
CRDL = CONTRACT REQUIRED DETECTION LIMIT
MB = METHOD BLANK
ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

# QA/QC REPORT

METHOD: EPA 8260B MATRIX:WATER REPORTING UNIT: uG/L(PPB)
PAGE: 1 OF 8 PAGES PROJECT: Continental Heat Treating / 12-758

CUSTOMER: Fero Environmental Engineering, Inc.
431 W. Lambert Road, Suite 305
Brea, CA 92821
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED:05/03/12 DATE RECEIVED:05/03/12

| | |
|---|---|
| DATE ANALYZED | 05/04/12 |
| DATE EXTRACTED | 05/04/12 |

SEE ATTACHED PAGES (7)

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

1

8260B QA/QC Report

Date Analyzed: 5/4-5/2012 Matrix: Water
Method: 524BW147 Unit: ug/L (PPB)
Machine: B

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.:** 120504-LCS1/2

| Analyte | S.R. | spk conc | MS | %RC | MSD | %RC | %RPD | ACP %RC | ACP RPD |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 0.00 | 25.0 | 25.1 | 100% | 25.1 | 100% | 0% | 80-120 | 0-20 |
| Toluene | 0.00 | 25.0 | 30.9 | 124% | 28.8 | 115% | 7% | 80-120 | 0-20 |
| Ethylbenzene | 0.00 | 25.0 | 26.4 | 106% | 25.9 | 103% | 2% | 80-120 | 0-20 |
| Cis-1,2-Dichloroethene | 0.00 | 25.0 | 25.7 | 103% | 29.8 | 119% | 15% | 80-120 | 0-20 |
| Tetrachloroethene | 0.00 | 25.0 | 23.4 | 94% | 24.4 | 98% | 4% | 80-120 | 0-20 |

**Lab Control Spike (LCS)**

| Analyte | spk conc | LCS | %RC | ACP %RC |
|---|---|---|---|---|
| 1,1,1-TCA | 25.0 | 27.1 | 108% | 80-120 |
| Tetrachloroethene | 25.0 | 22.9 | 91% | 80-120 |
| Benzene | 25.0 | 27.0 | 108% | 80-120 |
| Toluene | 25.0 | 29.2 | 117% | 80-120 |
| Ethylbenzene | 25.0 | 26.7 | 107% | 80-120 |
| Chloroform | 25.0 | 28.3 | 113% | 80-120 |

Calibration date: 11/11/2011

**Continuing Calibration Check (CCC)**

| Analyte | AvgRF | CCRF | %Dev | %RSD |
|---|---|---|---|---|
| 1,1,1-TCA | 0.749 | 0.774 | 3.34 | 10.23 |
| Trichloroethene | 0.357 | 0.364 | 1.96 | 12.24 |
| Tetrachloroethene | 0.996 | 1.001 | 0.50 | 12.75 |
| Toluene | 1.322 | 1.369 | 3.56 | 10.80 |
| Chloroform | 0.808 | 0.792 | 1.98 | 6.86 |
| Cis-1,2-Dichloroethene | 1.064 | 1.080 | 1.50 | 8.99 |

| Surrogate Recovery | spk conc | ACP% | MB %RC | %RC | %RC | %RC | %RC | %RC | %RC |
|---|---|---|---|---|---|---|---|---|---|
| Sample I.D. | | | M-BLK | 120503-38 | 120503-39 | 120503-40 | 120503-41 | | |
| Dibromofluoromethane | 25.0 | 75-125 | 112% | 104% | 105% | 104% | 103% | | |
| Toluene-d8 | 25.0 | 75-125 | 97% | 101% | 99% | 102% | 105% | | |
| 4-Bromofluorobenzene | 25.0 | 75-125 | 74% | 75% | 72% | 79% | 74% | | |

| Surrogate Recovery | spk conc | ACP% | %RC | %RC | %RC | %RC | %RC | %RC | %RC |
|---|---|---|---|---|---|---|---|---|---|
| Sample I.D. | | | | | | | | | |
| Dibromofluoromethane | 25.0 | 75-125 | | | | | | | |
| Toluene-d8 | 25.0 | 75-125 | | | | | | | |
| 4-Bromofluorobenzene | 25.0 | 75-125 | | | | | | | |

| Surrogate Recovery | spk conc | ACP% | %RC | %RC | %RC | %RC | %RC | %RC | %RC |
|---|---|---|---|---|---|---|---|---|---|
| Sample I.D. | | | | | | | | | |
| Dibromofluoromethane | 25.0 | 75-125 | | | | | | | |
| Toluene-d8 | 25.0 | 75-125 | | | | | | | |
| 4-Bromofluorobenzene | 25.0 | 75-125 | | | | | | | |

** = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.*

*S.R. = Sample Results* *%RC = Percent Recovery*
*spk conc = Spike Concentration* *ACP %RC = Accepted Percent Recovery*
*MS = Matrix Spike* *MSD = Matrix Spike Duplicate*

**Analyzed/Reviewed By:** _____

**Final Reviewer:** CAr

| GC Sequence # | Standard Name: | Solvent | Stock Standard | Calculation<br>STD V X STD Conc. / Total Volume = Final Conc. | Ref./ Page | Prep. Date | Exp. Date | Initial |
|---|---|---|---|---|---|---|---|---|
| 2518 | 8260B In/surr | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | detail in Logbook A3. P. 31<br>x = 50 ppm | | 9/15/2011 | 8/31/2012 | sch |
| 2519 | 8260B BFB | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: — | Name: 8260B In/surr<br>Source: GC-2519<br>Cat #:<br>Lot #:<br>Exp. Date: | 1mL x 50ppm (sch) / 10.0mL = 5 ppm | | 9/15/2011 | 8/31/2012 | sch |
| 2520 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: — | Name: Gas std<br>Source: ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 5/13/13 | 12.5ml x 2000ppm / 0.5mL = 50.0 ppm (Aw) | | 9/19/2011 | 9/25/2011 | sch |
| 2521 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: — | Name: Gas STD<br>Source: ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 5/13/13 | 12.5ml x 2000ppm / 0.5mL = 50.0ppm | | 9/26/2011 | 10/2/2011 | Aw |
| 2522 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name: Gas STD<br>Source: Ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 5/13/13 | 12.5ml x 2000ppm / 0.5mL = 50.0 ppm | | 10/3/2011 | 10/7/2011 | Aw |
| 2523 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: — | Name: Gas STD<br>Source: Ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 5/13/13 | 12.5ml x 2000ppm / 0.5mL = 50.0ppm | | 10/10/2011 | 10/14/2011 | Aw |
| 2524 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: — | Name: Gas STD<br>Source: ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 5/13/13 | 12.5ml x 2000ppm / 0.5mL = 50.0ppm | | 10/17/2011 | 10/23/2011 | RK |



U

| GC quence # | Standard Name: | Solvent | Stock Standard | Calculation STD V X STD Conc. / Total Volume = Final Conc. | Ref./ Page | Prep. Date | Exp. Date | Initial |
|---|---|---|---|---|---|---|---|---|
| 2629 | Diesel CCV | Name: CS2<br>Source: Fisher<br>Cat #: C573-500<br>Lot #: 112918<br>Exp. Date: | Name: Diesel Std<br>Source: Restek<br>Cat #: 31258<br>Lot #: A069478<br>Exp. Date: 09/2016 | 50,000 ppm x 0.4 mL / 10 mL = 2000 ppm | | 5/1/12 | 5/1/13 | ZC |
| 2630 | 8260B 15/SVTV | Name: MeOH<br>Source: Fisher<br>Cat #: A452-1<br>Lot #: 110412<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Check Detail in Logbook A3 P53 | | 5/2/12 | 8/31/12 | PW |
| 631 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A452-1<br>Lot #: 110412<br>Exp. Date: | Name: Gas Std<br>Source: Ultra<br>Cat #: DWM-544<br>Lot #: GC-1406<br>Exp. Date: 9/30/14 | 12.5 uL x 2000 ppm / 0.50 mL = 50.0 ppm | | 5/4/12 | 5/14/12 | PW |
| | | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | x = | | | | |
| | | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | x = | | | | |
| | | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | x = | | | | |
| | | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | x = | | | | |

| GC Sequence # | Standard Name: | Solvent | Stock Standard | Calculation STD V X STD Conc. / Total Volume = Final Conc. | Ref./ Page | Prep. Date | Exp. Date | Initi |
|---|---|---|---|---|---|---|---|---|
| 2608 | Acrolein | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name: Acrolein<br>Source: Aldrich<br>Cat #: 110221<br>Lot #: 15975PB<br>Exp. Date: | 249uL x 0.839 g/ml x 90% / 10.0mL = 2000 ppm (ug/mL) | — | 4/9/12 | 4/8/13 | PW |
| 2609 | 8260B CCV | Name: Methanol<br>Source: Fisher<br>Cat #: A454-1<br>Lot #: 110412<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Check Detail in x Logbook A3 P46 | — | 4/9/12 | 7/28/13 | PW |
| 2610 | 8260B LCS | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Check Detail in x logbook A3 P47 | — | 4/9/12 | 10/2012 | PW |
| 2611 | 8260B LS/SDVV | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name:<br>Source:<br>Cat #:<br>Lot #:<br>Exp. Date: | Check Detail in x logbook A3-48 | — | 4/12/12 | 8/21/12 | PW |
| 2612 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name: Gas std<br>Source: Ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 9/30/14 | 12.5uL x 2000 ppm / 0.50mL = 50.0 ppm | — | 4/16/12 | 4/23/12 | PI |
| 2613 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name: Gas STD<br>Source: Ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 9/30/14 | 12.5uL x 2000 ppm / 0.50mL = 50.0 ppm | — | 4/23/12 | 4/30/12 | PI |
| 2614 | 8260B Gas | Name: MeOH<br>Source: Fisher<br>Cat #: A453-1<br>Lot #: 110412<br>Exp. Date: | Name: Gas STD<br>Source: Ultra<br>Cat #: DWM-544<br>Lot #: GC-1486<br>Exp. Date: 9/30/14 | 12.5uL x 2000 ppm / 0.50mL = 50.0 ppm | — | 4/30/12 | 5/7/12 | PI |

**Standard Name:** 8260 IS/SURR **Analyst:** PW **GC #:** 2630

**Preparation Date:** 5/2/2012 **Expiration Date:** 8/31/12

| Compound Name | Source | Catalog # | Lot # | Exp date | Calculation<br>STD V x STD Conc / Total Volume = Final Conc | Initial |
|---|---|---|---|---|---|---|
| Internal standard | Ultra | STM-341N-1 | CF-2990 | 8/31/12 | 125uL X 2000ppm / 5.0mL = 50.0 ppm | PW |
| Surrogate standard | Ultra | STM-330N | CH-0721 | 4/30/14 | 125uL X 2000ppm / 5.0mL = 50.0 ppm | PW |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |

Total Standard Volume: 0.250mL Added Solvent Volume: 4.750mL Final Volume: 5.0mL

**Standard Name:** 8260B CCV **Analyst:** PW **GC #:** 2609

**Preparation Date:** 4/9/2012 **Expiration Date:** 2/28/13

| Compound Name | Source | Catalog # | Lot # | Exp date | Calculation STD V x STD Conc / Total Volume = Final Conc | Initial |
|---|---|---|---|---|---|---|
| Acrolein | GC 2608 | | | 4/8/2013 | 250uL X 2000ppm / 10.0mL = 50.0ppm | PW |
| VOC Mixture | Ultra | DWM-589N | CG-0088 | 2/28/13 | 250uL X 2000ppm / 10.0mL = 50.0ppm | PW |
| VOC Mixture | Ultra | DWM-592 | CG-2384 | 8/31/13 | 250uL X 2000ppm / 10.0mL = 50.0ppm | PW |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |

Total Standard Volume: 0.750mL Added Solvent Volume: 9.250mL Final Volume: 10.0 mL



(9)

**Standard Name:** 8260 LCS **Analyst:** PW **GC #:** 2610

**Preparation Date:** 4/9/2012 **Expiration Date:** 10/2012

| Compound Name | Source | Catalog # | Lot # | Exp date | Calculation STD V x STD Conc / Total Volume = Final Conc | Initial |
|---|---|---|---|---|---|---|
| Acrolein | GC2608 | | | 4/8/13 | 250uL X 2000ppm / 10.0mL = 50.0ppm | PW |
| VOC Mixture | Brilliant | ERS-079 | ER1016701 | 10/2012 | 250uL X 2000ppm / 10.0mL = 50.0ppm | PW |
| VOC Mixture | Ultra | DWM-592 | CG-2384 | 8/31/13 | 250uL X 2000ppm / 10.0mL = 50.0ppm | PW |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |
| | | | | | X = | |

**Total Standard Volume:** 0.750mL **Added Solvent Volume:** 9.250mL **Final Volume:** 10.0mL

**Enviro-Chem, Inc. Laboratories**
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time
- O Same Day
- O 24 Hours
- O 48 Hours
- O 72 Hours
- ☒ 1 Week (Standard)
- Other:

Misc.: CA PWTCB Format

| SAMPLE ID | LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | No. OF CONTAINERS | TEMPERATURE | PRESERVATION | VOCs 8260B* | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW1 | 12053-38 | 5/3/12 | 2:40 | H2O | 2 | | HCl | X | | | | | | | | | |
| MW2 | -39 | ↓ | 1:23 | ↓ | 2 | | ↓ | X | | | | | | | | | |
| MW3 | -40 | ↓ | 2:00 | ↓ | 2 | | ↓ | X | | | | | | | | | |
| MW4 | -41 | ↓ | 3:15 | ↓ | 2 | | ↓ | X | | | | | | | | | |

Company Name: Fero Eng.
Address: 431 W. Lambert Rd #305
City/State/Zip: Brea, CA 92821
Project Contact: John Peterson
Tel:
Fax: feroeng@aol.com
Sampler's Signature: [signature]
Project Name/ID: 12-758 Continental Heat Treating

| Relinquished by: | Received by: | Date & Time: |
|---|---|---|
| [signature] | [signature] | 5/3/12 1640 |
| Relinquished by: | Received by: | Date & Time: |
| Relinquished by: | Received by: | Date & Time: |

Instructions for Sample Storage After Analysis:
☒ Dispose of O Return to Client O Store (30 Days)
O Other:

# CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT