RO63

WIRE MESH

# McGrath Steel Company

REINFORCING STEEL BARS

CA. LICENSE # 161512
6655 HOLLIS STREET • EMERYVILLE • CALIFORNIA 94608
P.O. BOX 8036 • EMERYVILLE • CALIFORNIA 94662

TEL. (510) 596-2400 • FAX (510) 658 6910 • FAX (510) 652-5510

September 23, 2005

Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Alameda County
SEP 27 2005
Environmental Health

Re: Ground Water Monitoring Report
McGrath Steel Company
6655 Hollis Street
Emeryville, California
Fuel Leak Case RO0000063

Dear Mr. Chan:

Please find enclosed the ground water monitoring report requested in the Alameda County Health Care Services letter to McGrath Steel dated June 30, 2005[1].

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any comments or questions concerning the contents of this report, please contact me at (510) 596-2410.

Sincerely,

Jon Braden
President

Enclosures: Report

cc: L. Maile Smith, Weiss Associates

[1] June 30, 2005 letter from Barney M. Chan, ACHCS, to Jon Braden, McGrath Steel Company, Re: Fuel Leak Case RO0000063, McGrath Steel Company, 6655 Hollis Street, Oakland, California, 94608.

**Weiss Associates** *Environmental Science, Engineering and Management*

*350 E. Middlefield Road, Mountain View, CA 94043-4004* *Fax: 650-968-7034 Phone: 650-968-7000*

September 23, 2005

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502



RE: **Ground Water Monitoring Report**
**McGrath Steel Company**
6655 Hollis Street
Emeryville, California
Fuel Leak Case RO0000063
Weiss Project No. 184-1761-1

Dear Mr. Chan:

On behalf of McGrath Steel Company, owner of the property at 6655 Hollis Street in Emeryville, California (the Site; Figure 1), Weiss Associates (Weiss) is submitting this ground water monitoring report as requested in the Alameda County Health Care Services (ACHCS) letter to McGrath Steel dated June 30, 2005[1].

## Background

In late 1994, Clearprint Paper Company removed four underground storage tanks (USTs) from their facility at 1482 67th Street in Emeryville, across the street and downgradient from the McGrath warehouse[2]. The former USTs, located under the sidewalk between the Clearprint facility and 67th Street, were used to store solvents and mineral oil. During the UST removal and in a subsequent 1995 investigation, total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D), and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in soil samples collected from the UST excavation sidewalls and bottoms and from several onsite and offsite soil borings. Three monitoring wells—MW-1, MW-2, and MW-3—were installed during the 1995 investigation as well. TPH-G, TPH-D, and BTEX compounds were detected in ground water

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[1] June 30, 2005 letter from Barney M. Chan, ACHCS, to Jon Braden, McGrath Steel Company, Re: Fuel Leak Case RO0000063, McGrath Steel Company, 6655 Hollis Street, Oakland, California, 94608.

[2] Environmental Strategies Corporation, 1995, Supplemental Investigation of the Former Underground Storage Tank Area, consultant's report prepared for Clearprint Paper Company, Emeryville, California, December 14, 1995.

samples from wells MW-1 (Clearprint source area) and MW-3 (upgradient of the Clearprint site). Only TPH-D was detected in ground water sampled from well MW-2.

In July 1996, McGrath Steel removed two 2,000-gallon USTs from beneath the 67th Street sidewalk adjacent to the McGrath property near the southwest intersection of 67th and Hollis Streets. The USTs were used to store unleaded gasoline and diesel. Petroleum hydrocarbons were detected in analyses of confirmatory soil samples collected from the initial UST pits and from the subsequent over-excavation. Due to the positive confirmation sample results and because of the potentially large number of other hydrocarbon sources in the vicinity[3], ACHCS subsequently requested a ground water investigation workplan to determine the extent of the McGrath UST petroleum hydrocarbon impact to soil and/or ground water.

On May 20, 1998, Weiss drilled three boreholes (B-1 cross-gradient, B-2 upgradient, and B-5 downgradient) near the location of the former USTs[4]. Petroleum hydrocarbons were detected only in soil samples collected from boring B-5 at a depth of 12 feet below ground surface (ft bgs). TPH-G was detected at a concentration of 27 parts per million (ppm), TPH-D was detected at 2.8 ppm, benzene was detected at 0.28 ppm, toluene was detected at 0.6 ppm, total xylenes was detected at 0.49 ppm, and methyl tertiary butyl ether (MTBE) was detected at 3.8 ppm. Petroleum hydrocarbons were detected in ground water samples collected from borings B-1, B-2, and B-5 at maximum concentrations of 270 ppm of TPH-G, 1.6 ppm TPH-D, and 59 ppm MTBE. Also detected were 21 ppm, 34 ppm, 6 ppm, and 36 ppm (respectively) of benzene, toluene, ethylbenzene, and total xylenes (BTEX).

In September 1999, Weiss proposed to further delineate the extent of dissolved petroleum hydrocarbons in ground water downgradient from the former USTs by installing a ground water monitoring well. It is assumed that the workplan was not approved by the ACHCS and that the proposed Site characterization work was not conducted. A revised site characterization workplan was submitted to the ACHCS on August 26, 2005.

## Objective

ACHCS confirmed the completion of site investigations and remedial actions at the Clearprint site and requested closure of the site on June 27, 2005. Two of Clearprint's monitoring wells—MW-1 and MW-2—were destroyed on June 22, 2005 as part of case closure activities requested by ACHCS. In their June 30, 2005 letter to McGrath Steel, the ACHCS requested that McGrath Steel incorporate Clearprint monitoring well MW-3 into its ground water monitoring program.

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[3] A 1995 regulatory database search confirmed at least 48 leaking UST sites within a half-mile radius of the Clearprint and McGrath facilities, seven having impacted ground water with TPH-G and three having impacted ground water with TPH-D. Neither the Clearprint nor the McGrath facility was included in the list of 48 sites.

[4] Per the Weiss Subsurface Investigation Report dated August 5, 1998, only three of seven proposed boreholes for the 1998 investigation were drilled due to adverse field conditions and schedule restraints.

## Summary of Field Activities

On August 22, 2005 Weiss field technicians collected ground water samples from well MW-3. Ground water was encountered at 12.36 feet below top-of-casing. Purge water was collected in a 55-gallon drum, labeled, and stored onsite at the McGrath Steel property pending analytical results and appropriate disposal. The samples were labeled, placed in a cooler with ice, and transported under chain-of-custody procedures to Curtis and Tompkins Analytical Laboratory in Berkeley, California. The samples were analyzed for TPH-D, TPH-G, BTEX, MTBE, tert-amyl methyl ether (TAME), ethyl tert-butyl ether (ETBE), di-isopropyl ether (DIPE), tert-butyl alcohol (TBA), ethylene dibromide (EDB), and ethylene dichloride (EDC) using United States Environmental Protection Agency (USEPA) Methods 8015M and 8260B.

## Analytic Results

Ground water collected from well MW-3 on August 22, 2005 contained the following constituents:

- 39 ppm TPH-G;
- 2.5 ppm TPH-D;
- 7.2 ppm MTBE;
- 3.1 ppm benzene;
- 3.8 ppm toluene;
- 1.1 ppm ethylbenzene;
- 3.4 ppm m,p-xylene; and,
- 1.3 ppm o-xylene.

Results are summarized on Figure 2 and in Table 1, and the laboratory analytic report is included as Attachment A.

## Closing

The next ground water sample event at well MW-3 will be conducted in November 2005. If you have any questions or concerns regarding the upcoming sample event, or any questions or comments regarding this report, please feel welcome to contact me at 650-968-7000 or lms@weiss.com.

Sincerely,
Weiss Associates

L. Maile Smith, PG
Project Manager

Figures 1 and 2
Table 1
Attachment A – Laboratory Analytic Report

cc: Mr. Jon Braden, McGrath Steel Company

LMS:lms
J:\McGrath\1761_2005\reports\05Q3\0509GWrpt.doc

# FIGURES

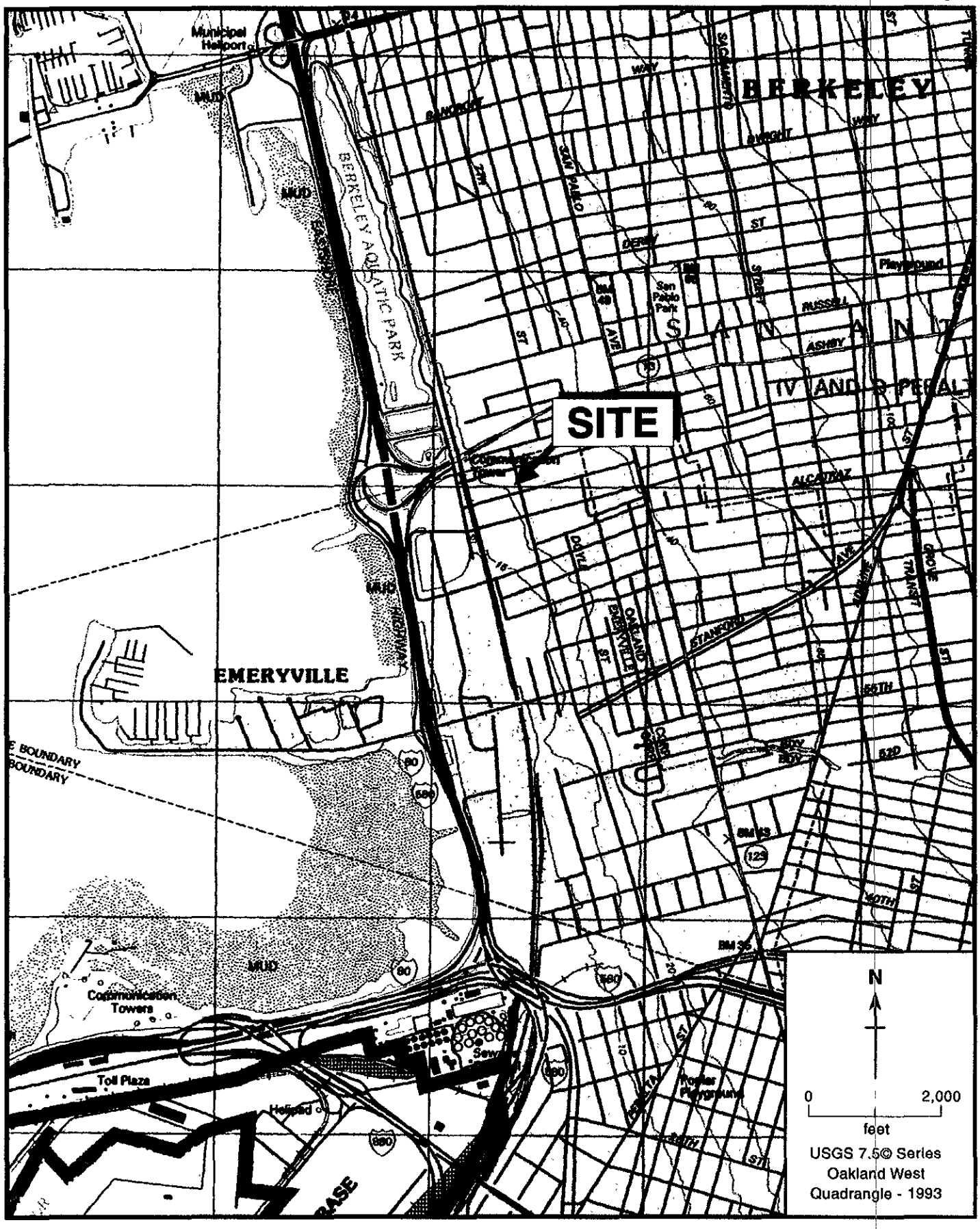



Figure 1. Site Location Map—McGrath Steel, 6655 Hollis Street, Emeryville, California

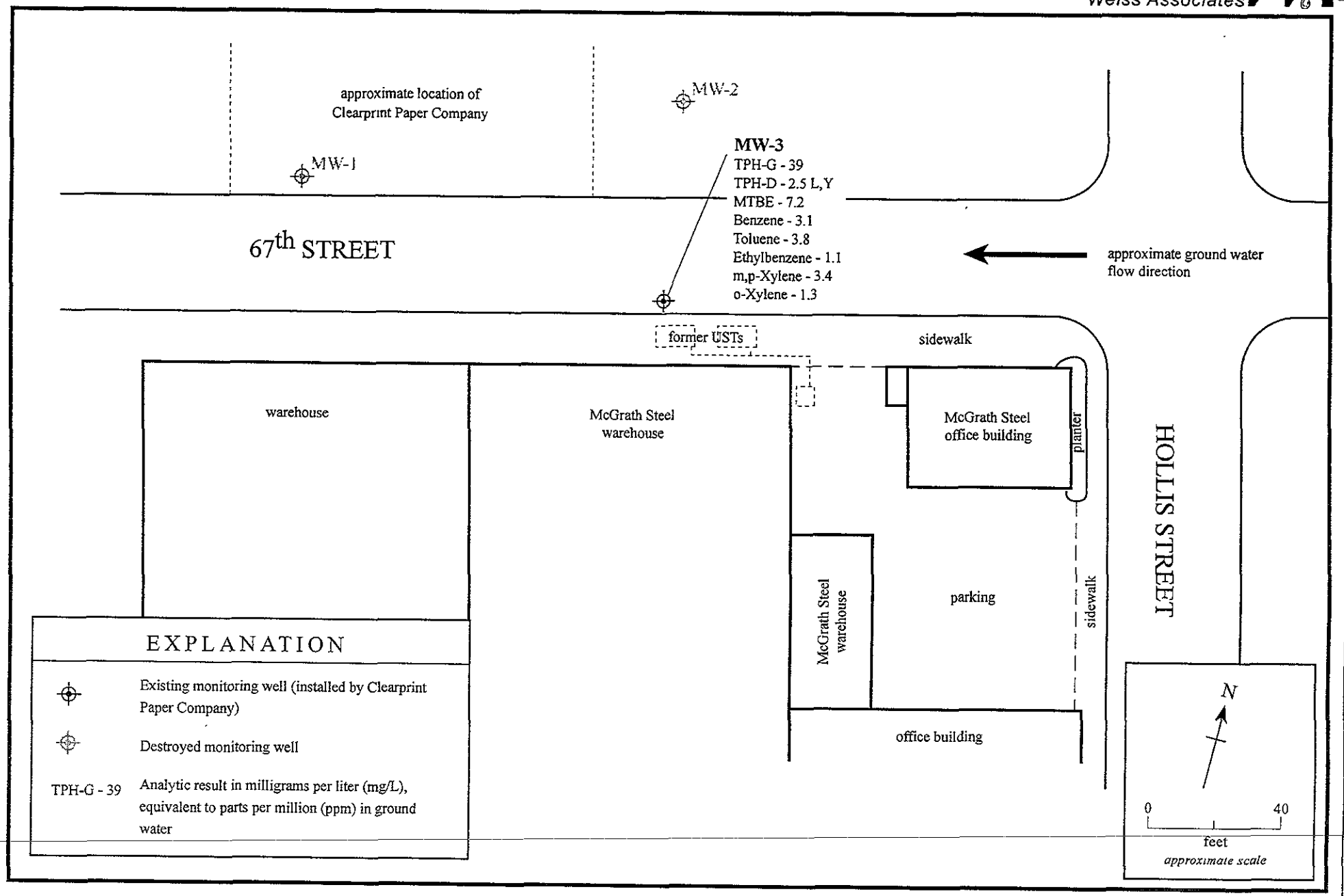



Figure 2. Summary of Monitoring Well MW-3 Analytic Results, McGrath Steel, 6655 Hollis Street, Emeryville, California

1358-007.ai

09/16/05

# TABLES

Table 1. Chemical Analytic Results Summary for Monitoring Well MW-3, McGrath Steel, Emeryville, California

| Sample ID | Sample Date | Analytic Method | TPH-G (mg/L) | TPH-D (mg/L) | Benzene (mg/L) | Toluene (mg/L) | Ethyl-benzene (mg/L) | m,p-Xylene (mg/L) | o-Xylene (mg/L) | MTBE (mg/L) | TAME (mg/L) | ETBE (mg/L) | DIPE (mg/L) | TBA (mg/L) | EDB (mg/L) | EDC (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *3rd Quarter 2005:* | | | | | | | | | | | | | | | | |
| MW-3 | 22-Aug-05 | 8015M, 8260B | 39 | 2.5 L,Y | 3.1 | 3.8 | 1.1 | 3.4 | 1.3 | 7.2 | ND | ND | ND | ND | ND | ND |
| *Laboratory Detection Limit* | | | 0.5 | 0.05 | 0.063 | 0.063 | 0.063 | 0.063 | 0.063 | 0.063 | 0.063 | 0.063 | 0.063 | 1.3 | 0.063 | 0.063 |

Notes and Abbreviations

8015M = Modified USEPA Method 8015 for total volatile and extractable petroleum hydrocarbons

8260B = USEPA Method 8260 for volatile organic compounds (VOCs) by gas chromatography-mass spectrometry (GCMS)

DIPE = di-isopropyl ether

EDB = ethylene dibromide; 1,2-dibromoethane

EDC = ethylene dichloride; 1,2-dichloroethane

ETBE = ethyl tert-butyl ether

L = lighter hydrocarbons contributed to the quantitation

mg/L = milligrams per liter; equivalent to parts per million (ppm) in ground water

MTBE = methyl tertiary butyl ether

ND = not detected above laboratory reporting limit

TAME = tert-amyl methyl ether

TBA = tert-butyl alcohol

TPH-D = total petroleum hydrocarbons as diesel (C10-C24 range)

TPH-G = total petroleum hydrocarbons as gasoline (C7-C12 range)

Y = sample exhibits chromatographic pattern which does not resemble standard

# ATTACHMENT A

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

# ANALYTICAL REPORT

Prepared for:

Weiss Associates
350 East Middlefield Rd
Mountain View, CA 94043

Date: 30-AUG-05
Lab Job Number: 181380
Project ID: STANDARD
Location: McGrath Steel

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____ for AMP
Project Manager

Reviewed by: _____
Operations Manager

Curtis & Tompkins, Ltd.

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | 181380 |
| Client: | Weiss Associates |
| Location: | McGrath Steel |
| Request Date: | 08/22/05 |
| Samples Received: | 08/22/05 |

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 08/22/05. The sample was received cold and intact. Matrix spikes were not reported for this analysis because the parent sample required a dilution that would have diluted out the spikes.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**
No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**
No analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B):**
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Field ID: | MW-3 | Sampled: | 08/22/05 |
| Matrix: | Water | Received: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Batch#: | 105033 | | |

Type: SAMPLE Diln Fac: 10.00
Lab ID: 181380-001

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 39,000 | 500 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 118 | 63-141 |
| Bromofluorobenzene (FID) | 125 | 79-139 |

Type: BLANK Diln Fac: 1.000
Lab ID: QC305853

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 101 | 63-141 |
| Bromofluorobenzene (FID) | 117 | 79-139 |

ND= Not Detected
RL= Reporting Limit

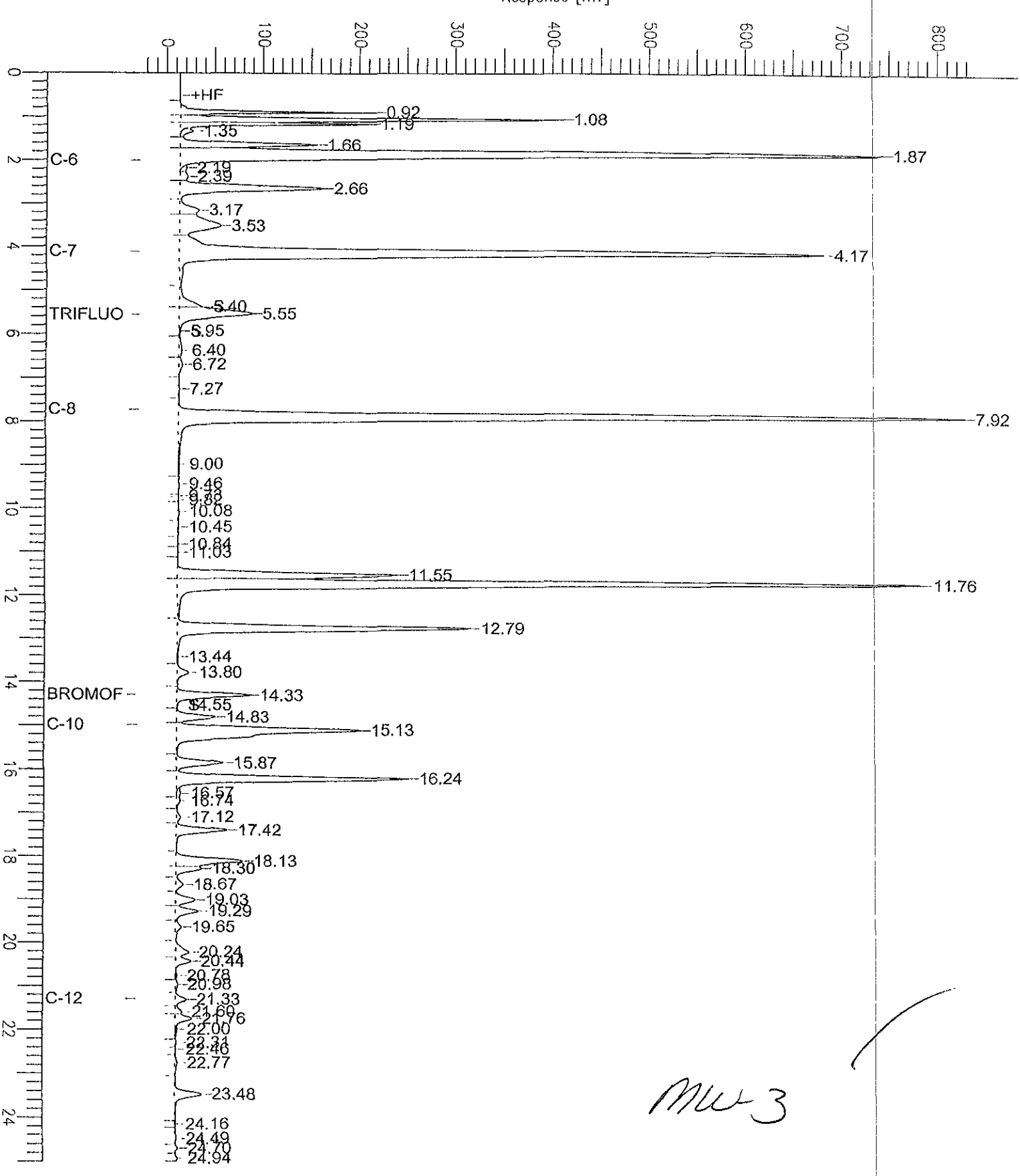
KPP 8/23/05

# Chromatogram

380

Sample Name : 181~~650~~001,105033,tvh only
FileName : G:\GC05\DATA\234G007.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -27 mV

Sample #: a1.0 Page 1 of 1
Date : 8/23/05 07:50 AM
Time of Injection: 8/22/05 08:37 PM
Low Point : -27.47 mV High Point : 832.09 mV
Plot Scale: 859.6 mV




MW 3

# Chromatogram

Sample Name : ccv/bs,qc305855,105033,S1150,5/5000
FileName : G:\GC05\DATA\234G003.raw
Method : TVHETXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -11 mV

Sample #: Page 1 of 1
Date : 8/23/05 08:05 AM
Time of Injection: 8/22/05 09:06 AM
Low Point : -11.10 mV High Point : 503.75 mV
Plot Scale: 514.8 mV

Response [mV]

Time [min]

C-6
C-7
TRIFLUO
C-8
BROMOF
C-10
C-12

0.58
0.92
1.19
1.28
1.66
1.83
2.00
2.20
2.42
2.67
3.36
3.70
4.16
4.62
5.15
5.42
5.57
5.96
6.23
6.74
7.30
7.93
8.42
8.68
9.04
9.51
10.14
10.45
10.78
11.03
11.31
11.56
11.77
12.30
12.80
13.52
13.80
14.02
14.34
14.84
15.14
15.58
15.89
16.25
16.61
16.78
17.11
17.43
18.12
18.31
18.70
19.04
19.30
19.66
19.92
20.25
20.45
20.79
20.99
21.33
21.62
21.77
22.01
22.35
22.46
22.77
23.19
23.50
23.95
24.44
24.71
24.95

Gasoline

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105033 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC305855

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,991 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 118 | 63-141 |
| Bromofluorobenzene (FID) | 127 | 79-139 |

Type: BSD Lab ID: QC305966

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 2,002 | 100 | 80-120 | 1 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 117 | 63-141 |
| Bromofluorobenzene (FID) | 127 | 79-139 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 3520C |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Field ID: | MW-3 | Sampled: | 08/22/05 |
| Matrix: | Water | Received: | 08/22/05 |
| Units: | ug/L | Prepared: | 08/24/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |
| Batch#: | 105125 | | |

Type: SAMPLE Lab ID: 181380-001

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2,500 L Y | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 123 | 55-143 |

Type: BLANK Cleanup Method: EPA 3630C
Lab ID: QC306255

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 50 |

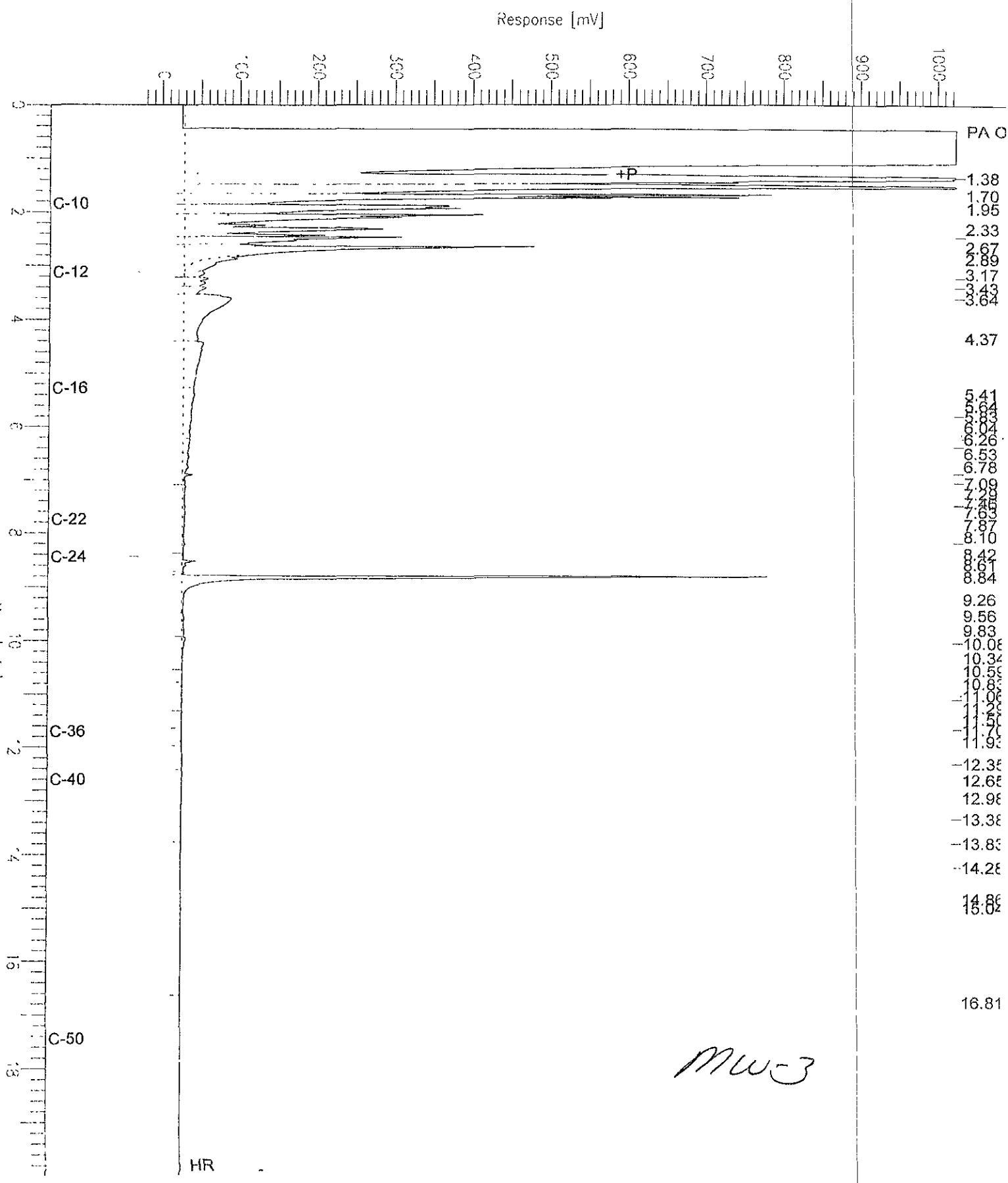
| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 103 | 55-143 |

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

# Chromatogram

Sample Name : 181380-001sg, 105125
FileName : G:\GC17\CHA\237A008.RAW
Method : ATEH196.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 105125 Page 1 of 1
Date : 8/26/05 09:24 AM
Time of Injection: 8/25/05 08:31 PM
Low Point : -27.21 mV High Point : 1024.00 mV
Plot Scale: 1051.2 mV

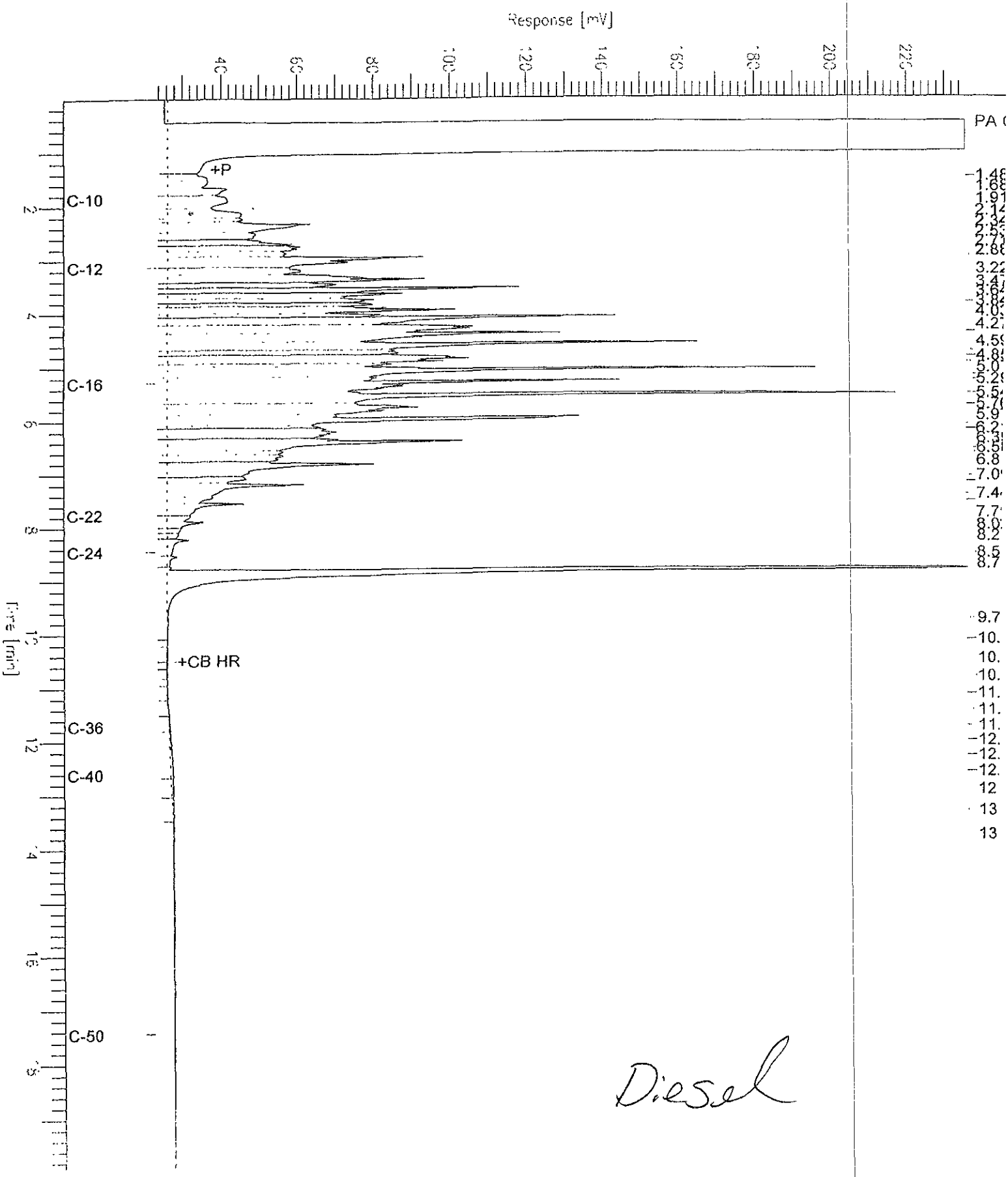



MW-3

# Chromatogram

Sample Name : ccv,S1289,dsl
FileName : G:\GC17\CHA\237A003.RAW
Method : ATEH196.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/L Page 1 of 1
Date : 8/25/05 12:02 PM
Time of Injection: 8/25/05 11:28 AM
Low Point : 23.20 mV High Point : 235.60 mV
Plot Scale: 212.4 mV




Diesel

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 3520C |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105125 |
| Units: | ug/L | Prepared: | 08/24/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

Type: BS
Lab ID: QC306256
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,448 | 98 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 100 | 55-143 |

Type: BSD
Lab ID: QC306257
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,573 | 103 | 50-133 | 5 | 40 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 107 | 55-143 |

RPD= Relative Percent Difference



8.0

Curtis & Tompkins, Ltd.

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-3 | Batch#: | 105078 |
| Lab ID: | 181380-001 | Sampled: | 08/22/05 |
| Matrix: | Water | Received: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 125.0 | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 1,300 |
| MTBE | 7,200 | 63 |
| Isopropyl Ether (DIPE) | ND | 63 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 63 |
| 1,2-Dichloroethane | ND | 63 |
| Benzene | 3,100 | 63 |
| Methyl tert-Amyl Ether (TAME) | ND | 63 |
| Toluene | 3,800 | 63 |
| 1,2-Dibromoethane | ND | 63 |
| Ethylbenzene | 1,100 | 63 |
| m,p-Xylenes | 3,400 | 63 |
| o-Xylene | 1,300 | 63 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 118 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306045 | Batch#: | 105078 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| tert-Butyl Alcohol (TBA) | ND | 10 |
| MTBE | ND | 0.5 |
| Isopropyl Ether (DIPE) | ND | 0.5 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Benzene | ND | 0.5 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.5 |
| Toluene | ND | 0.5 |
| 1,2-Dibromoethane | ND | 0.5 |
| Ethylbenzene | ND | 0.5 |
| m,p-Xylenes | ND | 0.5 |
| o-Xylene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 111 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 102 | 80-124 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## BTXE & Oxygenates

| | | | |
|---|---|---|---|
| Lab #: | 181380 | Location: | McGrath Steel |
| Client: | Weiss Associates | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC306042 | Batch#: | 105078 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| tert-Butyl Alcohol (TBA) | 125.0 | 130.9 | 105 | 65-139 |
| MTBE | 25.00 | 22.18 | 89 | 72-129 |
| Isopropyl Ether (DIPE) | 25.00 | 21.61 | 86 | 76-120 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 25.09 | 100 | 80-120 |
| 1,2-Dichloroethane | 25.00 | 26.35 | 105 | 75-120 |
| Benzene | 25.00 | 23.43 | 94 | 80-120 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 24.41 | 98 | 80-120 |
| Toluene | 25.00 | 24.94 | 100 | 80-120 |
| 1,2-Dibromoethane | 25.00 | 25.55 | 102 | 80-120 |
| Ethylbenzene | 25.00 | 25.26 | 101 | 80-120 |
| m,p-Xylenes | 50.00 | 50.67 | 101 | 80-120 |
| o-Xylene | 25.00 | 24.63 | 99 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 111 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

181380

**Weiss Associates**
*Environmental Science, Engineering and Management Services*
350 E. Middlefield Rd., Mountain View, CA 94043
Phone: (650) 968-7000 Fax: (650) 968-7034
*AguaTierra Associates Incorporated, DBA*

Please send analytic results, EDD, and the original chain-of-custody form to:
**Maile Smith** (lms@weiss.com)

Project ID: 184-1761-01-3
Protocol No.: 1761_082205

LAB PERSONNEL:
Please Include QA/QC Data.
Specify analytic method and detection limit in report.
Notify us of any anomalous peaks in GC or other scans.
Notify us of any questions or problems.

# CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by: RS/CC Laboratory Name: C&T Site Name: McGrath Steel

| Sample ID | Sample Date | Sample Time | # of Containers | Sample/ Container Type[1] | Volume | Preservative? | Filter? 2 | Refrig? 3 | Turn 4 | Analyze for | Analytical Method | Special Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 08/22/05 | 0805 | 2 | W/A | 1 L | none | N | Y | N | TPH-diesel | 8015M | |
| MW-3 | 08/22/05 | 0805 | 4 | W/V | 40 ml | HCl | N | Y | N | TPH-gas, BTEX, MTBE, TAME, | 8260B | |
| --- | | | --- | --- | --- | --- | --- | --- | --- | ETBE, DIPE, TBA, EDB, and EDC | --- | |
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1 Released by (Signature), Date, Time ☐ 3 Released by (Signature), Date, Time ☐ 5 Released by (Signature), Date, Time ☐

1 (Affiliation) Weiss 3 (Affiliation) C&T 5 (Affiliation)

2 Received by (Signature), Date, Time ☐ 4 8/22/05 9:15 AM Received by (Signature), Date, Time ☐ 6 Received by (Signature), Date, Time ☐

2 (Affiliation) 4 (Affiliation) 6 (Affiliation)

1 = Sample Type Codes: W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other;
Cap Codes: PT = Plastic, Teflon Lined 2 = Filtered (Y/N) 3 = Refrigerated (Y/N) 4 = Turnaround: N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)

☒ = *Samples stored in a secured, locked area.*

*ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:*

cc'd & intact