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Alameda County  
Environmental Health



**ENVIRONMENTAL ENGINEERING, INC**  
6620 Owens Drive, Suite A • Pleasanton, CA 94588-3334  
TEL (925) 734-6400 • FAX (925) 734-6401

July 3, 2007

Mr. Jerry Wickham  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Re: Results of Forensic Analysis of Product Samples and Status of Free-Product  
Removal at Oakland-Glovatorium, 3815 Broadway, Oakland, California

Dear Jerry:

SOMA is submitting this letter to update you on the status of ongoing free-product removal activities and results of recent finger printing analysis of product samples at the above-referenced site. Free product has been actively monitored in temporary well B-8 since October 2001, and at well SOMA-4 since January 2002. Figure 1 shows the location of the site and of each well.

### ***Status of Free Product Removal***

Prior to installation of a skimmer pump in SOMA-4 in early 2004, there was over 10 feet of free product inside this well. On February 6, 2004, SOMA installed a flexible axial peristaltic pump (FAP system) in SOMA-4 to remove free product.

In August 2004, SOMA converted borings B-3 and B-8 into wells for removal of free product from these locations. The FAP system was installed in SOMA-4 and B-8 to remove free product from these locations. As of June 2007, approximately 1,835 gallons of free product and contaminated groundwater have been removed from these two wells, and transported off-site by NRC. SOMA has continued the free-product removal from SOMA-4 and B-8, including actively checking of product thicknesses and weekly or bi-weekly maintenance of the extraction pump and compressor. In early 2007, elevated levels of free product (up to 3 feet) were observed in B-8. As a result, in April 2007, the FAP in SOMA-4 was removed and installed in B-8. Since installation of the FAP, product thickness in B-8 has been significantly reduced. Table 1 shows field observations for SOMA-4 and B-8, and Figure 2 illustrates historical free-product thickness measurements in these wells. SOMA is actively checking the condition of SOMA-4 and B-8 and will continue until free product is completely removed.

Despite operation of the FAP, elevated free product thicknesses have historically been observed in SOMA-4. However, since April 2007 no significant levels of free product have been reported in SOMA 4 despite discontinuation of FAP operation at this well. Currently, only 0.8 feet of product is in SOMA-4. This observation suggests that the product volume around SOMA-4 has been significantly diminished. SOMA plans to install a new FAP on SOMA-4 shortly.

### ***Results of Recent Forensic Analysis***

On January 2007, SOMA collected two product samples for forensic analysis: one from SOMA-4, and the second from fresh product inside the solvent storage room as directed by the site operator, Mr. Eric Depper. The objective of this study was to compare the two product types and determine if their chemical composition is identical or totally different. On the day of sampling SOMA staff was denied access to the machine room to sample a used product from the cleaning machine. The samples were kept in an ice chest and shipped to Friedman & Bruya Inc. (FBI), a specialty laboratory in Seattle, Washington.

On March 12, 2007, FBI reported results of laboratory analysis including the chromatogram of the two product samples collected in January 2007. The two product samples were analyzed for paraffin, isoparaffin, aromatic, naphthalene and olefin (PIANO). Results indicated that product samples collected from SOMA-4 are not identical to the fresh product sample reportedly being used by Mr. Eric Depper.

On March 20, 2007, SOMA collected three additional used product samples from the dry-cleaning machine and sent them to FBI for forensic analysis. Results of laboratory analysis presented in FBI's report dated April 25, 2007 indicate that used product samples were identical to the fresh product sample collected in January but different from the product samples collected from SOMA-4. Appendix A Includes FBI reports along with laboratory analysis results and chain of custody forms.

In conclusion, the product level in SOMA-4 is not increasing, which indicates that we are getting closer to concluding our product removal activity at the site. Results of forensic analysis on free product samples showed that the product sample collected from SOMA-4 does not resemble the product sample currently being used by Mr. Eric Depper. If you have any questions or comments regarding this letter, please contact me or Senior Project Engineer Tony Perini, at 925-734-6400.

Sincerely,



Mansour Sepehr, Ph.D., P.E.  
Principal Hydrogeologist



cc: Albert Cohen, Esq.  
Dr. Bruce W. Page Consulting

Attachments

# Figures

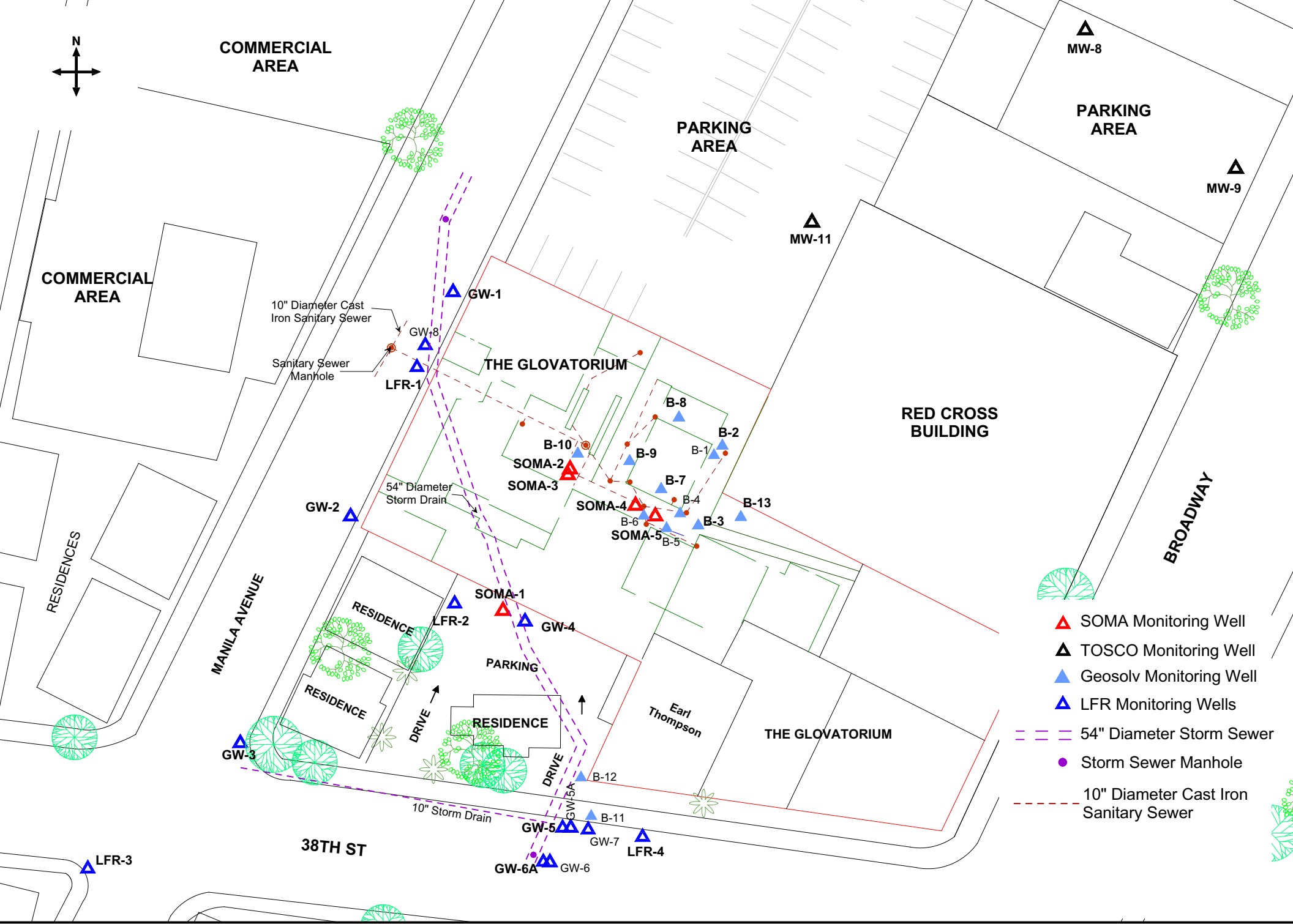
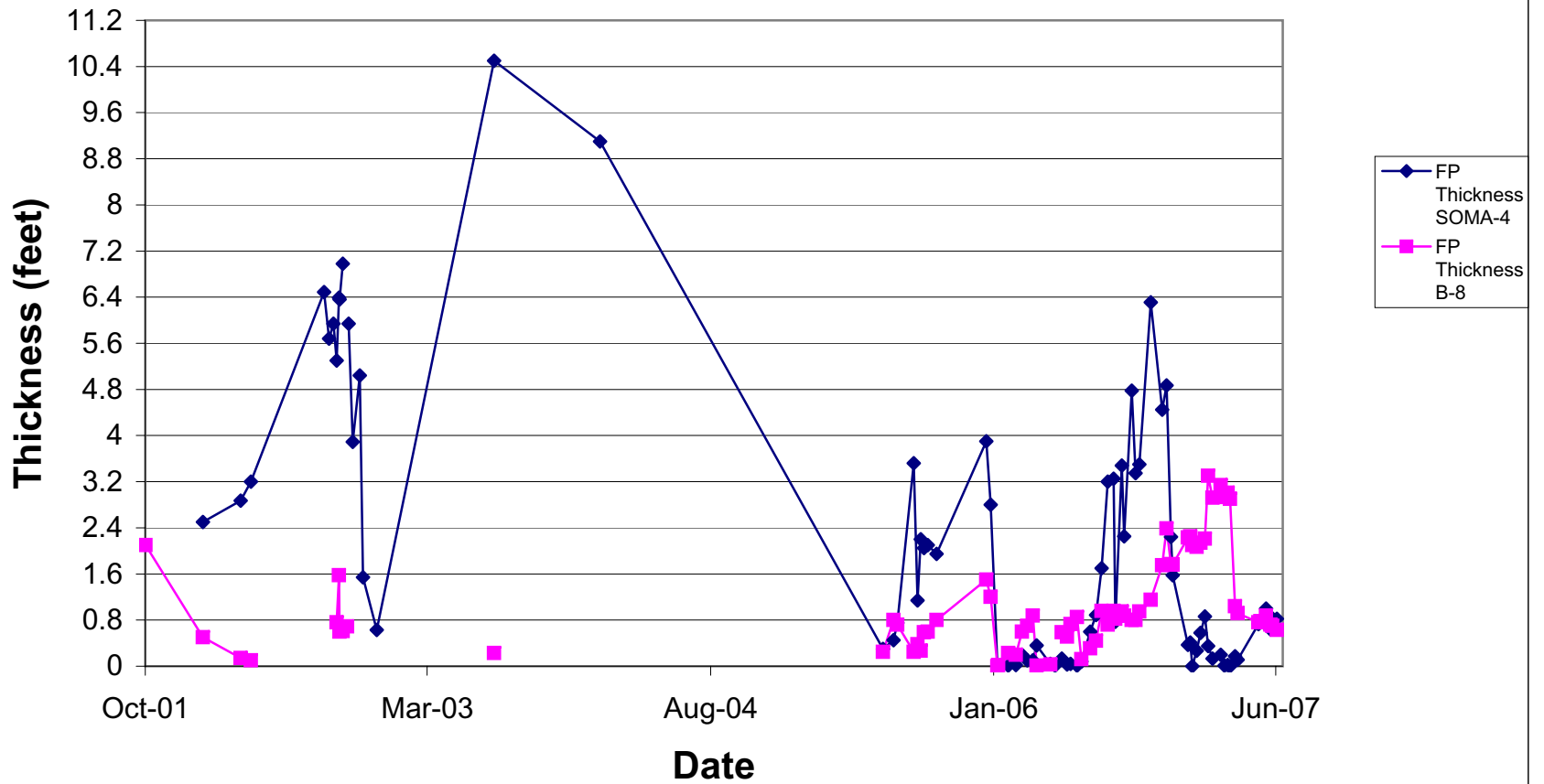


Figure 1: Map showing the approximate locations of groundwater monitoring wells.

approximate scale in feet



**Figure 2**  
**Free Product Thickness**  
**Former Glovatorium Site**  
**3815 Broadway, Oakland, California**



# Table

**Table 1**  
**Free Product Removal Log**  
**Former Glovatorium Site**  
**3815 Broadway, Oakland, CA**

<b>Date</b>	<b>Depth to Water (feet)</b>	<b>Depth to Free Product (feet)</b>	<b>Thickness of Free Product (feet)</b>
<b>SOMA-4</b>			
<b>2002</b>			
31-Jan-2002	11.30	8.80	2.50
10-Apr-2002	12.45	9.58	2.87
29-Apr-2002	13.00	9.80	3.20
10-Sep-2002	16.75	10.26	6.49
19-Sep-2002	16.32	10.64	5.68
27-Sep-2002	16.59	10.65	5.94
3-Oct-2002	16.95	11.65	5.30
7-Oct-2002	17.40	11.01	6.39
8-Oct-2002	17.11	10.75	6.36
14-Oct-2002	17.51	10.53	6.98
25-Oct-2002	16.90	10.96	5.94
1-Nov-2002	15.59	11.70	3.89
14-Nov-2002	16.24	11.20	5.04
20-Nov-2002	13.44	11.90	1.54
15-Dec-2002	12.73	12.10	0.63
<b>2003</b>			
18-Jul-2003	17.70	7.20	10.50

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**Free Product Removal Log**  
**Former Glovatorium Site**  
**3815 Broadway, Oakland, CA**

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
<b>SOMA-4</b>			
<b>2004</b>			
28-Jan-2004	12.00	2.90	9.10
<b>2005</b>			
29-Jun-2005	10.40	10.10	0.30
18-Jul-2005	10.35	9.90	0.45
25-Jul-2005	10.75	10.00	0.75
1-Aug-2005	10.87	9.25	1.62
24-Aug-2005	13.47	9.95	3.52
31-Aug-2005	11.15	10.01	1.14
6-Sep-2005	12.98	10.78	2.20
12-Sep-2005	11.15	9.10	2.05
19-Sep-2005	12.90	10.80	2.10
5-Oct-2005	12.80	10.85	1.95
<b>2006</b>			
4-Jan-2006	12.50	8.60	3.90
12-Jan-2006	13.10	10.30	2.80
18-Jan-2006	13.64	10.50	3.14
24-Jan-2006	9.20	9.19	0.01
24-Jan-2006	began extracting free product using GeoTech pump		
26-Jan-2006	9.67	9.66	0.01
13-Feb-2006	10.24	10.23	0.01
27-Feb-2006	9.72	9.70	0.02
10-Mar-2006	8.90	8.70	0.20
20-Mar-2006	7.80	7.70	0.10
30-Mar-2006	8.30	8.20	0.10



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<b>SOMA-4</b>			
<b>2006</b>			
6-Apr-2006	7.01	6.65	0.36
18-Apr-2006	moved GeoTech pump from SOMA-4 to B-8		
1-May-2006	7.60	7.56	0.04
10-May-2006	8.64	8.63	0.01
22-May-2006	8.53	8.40	0.13
1-Jun-2006	8.64	8.61	0.03
7-Jun-2006	8.86	8.82	0.04
19-Jun-2006	9.39	9.38	0.01
27-Jun-2006	10.54	10.46	0.08
13-Jul-2006	10.75	10.15	0.60
24-Jul-2006	11.05	10.16	0.89
3-Aug-2006	12.02	10.32	1.70
14-Aug-2006	13.08	9.88	3.20
14-Aug-2006	began extracting free product using GeoTech pump		
25-Aug-2006	13.95	10.70	3.25
28-Aug-2006	11.50	10.73	0.77
9-Sep-2006	14.23	10.75	3.48
13-Sep-2006	12.95	10.70	2.25
27-Sep-2006	15.78	11.00	4.78
4-Oct-2006	14.61	11.26	3.35
11-Oct-2006	14.25	10.75	3.50
1-Nov-2006	17.23	10.92	6.31
22-Nov-2006	14.98	10.53	4.45
30-Nov-2006	15.16	10.29	4.87
8-Dec-2006	13.54	11.30	2.24
11-Dec-2006	12.24	10.66	1.58

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Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
<b>SOMA-4</b>			
<b>2007</b>			
8-Jan-2007	11.15	10.78	0.37
12-Jan-2007	10.79	10.38	0.41
16-Jan-2007	11.00	11.00	0.00
24-Jan-2007	11.10	10.83	0.27
31-Jan-2007	11.02	10.44	0.58
8-Feb-2007	11.50	10.64	0.86
14-Feb-2007	9.60	9.25	0.35
22-Feb-2007	9.94	9.81	0.13
9-Mar-2007	9.73	9.53	0.20
16-Mar-2007	10.02	10.01	0.01
22-Mar-2007	9.93	9.91	0.02
26-Mar-2007	10.67	10.67	0.00
26-Mar-2007	Stopped extracting free product from well SOMA-4. Moved GeoTech pump from SOMA-4 to B-8		
4-Apr-2007	10.56	10.39	0.17
9-Apr-2007	10.71	10.60	0.11
17-May-2007	16.05	15.32	0.73
21-May-2007	16.06	15.30	0.76
31-May-2007	16.31	15.31	1.00
8-Jun-2007	16.73	16.09	0.64
11-Jun-2007	16.85	16.02	0.83
<b>20-Jun-2007</b>	<b>16.44</b>	<b>15.62</b>	<b>0.82</b>
<b>B-8</b>			
<b>2001</b>			
18-Oct-2001	12.31	10.21	2.10
<b>2002</b>			
31-Jan-2002	6.79	6.29	0.50
10-Apr-2002	8.22	8.08	0.14
29-Apr-2002	8.55	8.45	0.10
3-Oct-2002	10.40	9.64	0.76
7-Oct-2002	10.37	8.79	1.58
8-Oct-2002	10.28	9.68	0.60
14-Oct-2002	10.30	9.69	0.61
22-Oct-2002	10.39	9.70	0.69
<b>2003</b>			
18-Jul-2003	9.40	9.17	0.23

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<b>Date</b>	<b>Depth to Water (feet)</b>	<b>Depth to Free Product (feet)</b>	<b>Thickness of Free Product (feet)</b>
<b>B-8</b>			
<b>2005</b>			
29-Jun-2005	11.50	11.25	0.25
18-Jul-2005	10.90	10.10	0.80
25-Jul-2005	10.92	10.20	0.72
1-Aug-2005	10.85	9.85	1.00
24-Aug-2005	10.35	10.10	0.25
31-Aug-2005	10.48	10.10	0.38
6-Sep-2005	10.86	10.59	0.27
12-Sep-2005	10.59	10.00	0.59
19-Sep-2005	11.20	10.60	0.60
5-Oct-2005	11.30	10.50	0.80
<b>2006</b>			
4-Jan-2006	9.50	8.00	1.50
12-Jan-2006	11.40	10.20	1.20
18-Jan-2006	11.93	11.00	0.93
24-Jan-2006	8.65	8.65	0.00
26-Jan-2006	8.72	8.70	0.02
13-Feb-2006	8.82	8.59	0.23
27-Feb-2006	8.81	8.61	0.20
10-Mar-2006	7.45	6.85	0.60
20-Mar-2006	7.90	7.20	0.70
30-Mar-2006	7.88	7.00	0.88

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<b>B-8</b>			
<b>2006</b>			
6-Apr-2006	7.91	7.90	0.01
18-Apr-2006	began extracting free product using GeoTech pump		
1-May-2006	8.34	8.31	0.03
22-May-2006	9.51	8.92	0.59
1-Jun-2006	9.81	9.30	0.51
7-Jun-2006	10.24	9.51	0.73
14-Jun-2006	10.58	9.73	0.85
27-Jun-2006	9.04	8.92	0.12
27-Jun-2006	removed GeoTech pump from well		
13-Jul-2006	9.61	9.30	0.31
24-Jul-2006	9.70	9.26	0.44
3-Aug-2006	10.01	9.05	0.96
14-Aug-2006	10.41	9.69	0.72
25-Aug-2006	10.60	9.64	0.96
28-Aug-2006	10.62	9.80	0.82
7-Sep-2006	10.68	9.73	0.95
13-Sep-2006	10.65	9.78	0.87
27-Sep-2006	11.03	10.23	0.80
4-Oct-2006	11.00	10.20	0.80
11-Oct-2006	10.68	9.73	0.95
1-Nov-2006	11.39	10.24	1.15
22-Nov-2006	11.53	9.78	1.75
30-Nov-2006	11.64	9.25	2.39
8-Dec-2006	11.53	9.76	1.77
11-Dec-2006	11.44	9.68	1.76
<b>2007</b>			
8-Jan-2007	11.56	9.33	2.23
12-Jan-2007	11.58	9.33	2.25
16-Jan-2007	11.59	9.49	2.10
24-Jan-2007	11.77	9.70	2.07
31-Jan-2007	11.76	9.62	2.14
8-Feb-2007	11.92	9.71	2.21
14-Feb-2007	10.91	7.61	3.30
22-Feb-2007	11.46	8.54	2.92
9-Mar-2007	11.34	8.20	3.14
16-Mar-2007	11.53	8.60	2.93
22-Mar-2007	11.72	8.71	3.01
26-Mar-2007	11.71	8.81	2.90
26-Mar-2007	Started extracting free product from well B-8. Moved GeoTech pump from SOMA-4 to B-8		

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**Free Product Removal Log**  
**Former Glovatorium Site**  
**3815 Broadway, Oakland, CA**

Date	Depth to Water (feet)	Depth to Free Product (feet)	Thickness of Free Product (feet)
<b>B-8</b>			
4-Apr-2007	10.71	9.67	1.04
9-Apr-2007	10.83	9.91	0.92
17-May-2007	13.98	13.22	0.76
21-May-2007	13.98	13.20	0.78
31-May-2007	14.78	13.90	0.88
8-Jun-2007	15.44	14.72	0.72
11-Jun-2007	15.50	14.80	0.70
<b>20-Jun-2007</b>	<b>15.43</b>	<b>14.80</b>	<b>0.63</b>

# **Attachment A**



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

March 12, 2007

Bill Bassett, Project Manager  
SOMA Environmental  
6620 Owens Dr., Suite A  
Pleasanton, CA 94588

Dear Mr. Bassett:

Included are the results from the testing of material submitted on January 26, 2007 from the 3820 Manila Ave., PO# 2513, F&BI 701249 project. The product samples submitted for forensic evaluation arrived in good condition. Upon arrival, the samples Product and SOMA-4 were placed in a refrigerator maintained at 4°C until removed for sample processing.

The samples Product and SOMA-4 were diluted and analyzed using a gas chromatograph with a flame ionization detector (GC/FID). The data generated yielded information on the boiling range and general chemical composition of the material present. The GC/FID traces are enclosed. A GC/FID trace of a standard consisting of normal alkanes is also provided for reference purposes.

In addition, the samples Product and SOMA-4 were analyzed for paraffin, isoparaffin, aromatic, naphthene, and olefin (PIANO) constituents using a GC fitted with a mass spectrometer (MS). The results of this testing are also enclosed.

Please contact us if additional consultation is needed by our firm in the interpretation of the analytical results provided. We appreciate this opportunity to be of service to you and hope you will call if you should have any questions. We will hold your samples for 30 days before disposal unless directed otherwise.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michele Costales Poquiz  
Chemist

Enclosures  
NAA0312R



FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Extracted: 01/31/07

Date Analyzed: 02/02/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR FORENSIC EVALUATION  
BY CAPILLARY GAS CHROMATOGRAPHY  
USING A FLAME IONIZATION DETECTOR (FID)**

Sample ID

GC Characterization

Product

The GC trace using the flame ionization detector (FID) showed the presence of low boiling compounds. The patterns displayed by these peaks are indicative of petroleum solvent or similar materials.

The low boiling compounds appear as a ragged pattern of peaks eluting from *n*-C<sub>8</sub> to *n*-C<sub>11</sub> showing a maximum near *n*-C<sub>10</sub>. This correlates with a temperature range of approximately 130°C to 200°C with a maximum near 170°C. Within this range, the GC/FID trace showed the apparent absence of peaks characteristic of normal alkanes.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Extracted: 01/31/07

Date Analyzed: 02/02/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR FORENSIC EVALUATION  
BY CAPILLARY GAS CHROMATOGRAPHY  
USING A FLAME IONIZATION DETECTOR (FID)**

Sample ID

GC Characterization

SOMA-4

The GC trace using the flame ionization detector (FID) showed the presence of low boiling compounds. The patterns displayed by these peaks are indicative of Stoddard solvent or similar materials.

The low boiling compounds appear as a ragged pattern of peaks eluting from  $n$ -C<sub>8</sub> to  $n$ -C<sub>12</sub> showing a maximum near  $n$ -C<sub>10</sub>. This correlates with a temperature range of approximately 130°C to 220°C with a maximum near 170°C. Within this range, peaks are present which are indicative of normal alkanes.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Client ID	Product	Weight
Laboratory ID	701249-01	Percent
<u>Compound</u>		
Propane		<0.01
Methanol		<0.01
Isobutane		<0.01
2-Methyl-1-propene		<0.01
Ethanol		<0.01
n-Butane		<0.01
t-2-Butene		<0.01
c-2-Butene		<0.01
Isopropanol		<0.01
3-Methyl-1-butene		<0.01
Isopentane		<0.01
tert-Butanol		<0.01
1-Pentene		<0.01
2-Methyl-1-butene		<0.01
n-Propanol		<0.01
n-Pentane		<0.01
t-2-Pentene		<0.01
c-2-Pentene		<0.01
2-Methyl-2-butene		<0.01
MTBE		<0.01
sec-Butanol		<0.01
4-Methyl-1-pentene		<0.01
Isobutanol		<0.01
2,3-Dimethylbutane		<0.01
Cyclopentane		<0.01
2-Methylpentane		<0.01
DIPE		<0.01
3-Methylpentane		<0.01
1-Hexene		<0.01
ETBE		<0.01
n-Hexane		<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Client ID                      Product  
Laboratory ID                701249-01

<u>Compound</u>	<u>Weight Percent</u>
t-2-Hexene	<0.01
2-Methyl-1-pentene	<0.01
2-Methyl-2-pentene	<0.01
c-2-Hexene	<0.01
2,2-Dimethylpentane	<0.01
2,4-Dimethylpentane	<0.01
Methylcyclopentane	<0.01
2,2,3-Trimethylbutane	<0.01
Benzene	<0.01
1-Methylcyclopentene	<0.01
TAME	<0.01
3,3-Dimethylpentane	<0.01
Cyclohexane	<0.01
2-Methylhexane	<0.01
2,3-Dimethylpentane	<0.01
1,1-Dimethylcyclopentane	<0.01
3-Methylhexane	<0.01
c-1,3-Dimethylcyclopentane	<0.01
3-Ethylpentane	<0.01
Isooctane	<0.01
t-1,2-Dimethylcyclopentane	<0.01
1-Heptene	<0.01
n-Heptane	<0.01
t-3-Heptene	<0.01
c-3-Heptene	<0.01
t-2-Heptene	<0.01
c-2-Heptene	<0.01
2,2-Dimethylhexane	<0.01
2,5-Dimethylhexane	<0.01
Methylcyclohexane	<0.01
2,4-Dimethylhexane	<0.01
Ethylcyclopentane	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Client ID                      Product  
Laboratory ID                701249-01

<u>Compound</u>	<u>Weight Percent</u>
t-1,c-2,4-Trimethylcyclopentane	<0.01
t-1,c-2,3-Trimethylcyclopentane	<0.01
2,3,4-Trimethylpentane	<0.01
Toluene	<0.01
2,3-Dimethylhexane	<0.01
2-Methylheptane	<0.01
3-Methylheptane	<0.01
4-Methylheptane	<0.01
3-Ethylhexane	<0.01
1-Octene	<0.01
1,2,3-Trimethylcyclopentane	<0.01
t-1,2-Dimethylcyclohexane	<0.01
n-Octane	<0.01
1-Ethyl-1-methylcyclopentane	<0.01
c-2-Octene	<0.01
c-1,2-Dimethylcyclohexane	<0.01
Isopropylcyclopentane	<0.01
2,5-Dimethylheptane	0.01
3,5-Dimethylheptane	<0.01
n-Propylcyclopentane	<0.01
Ethylbenzene	<0.01
2,3-Dimethylheptane	0.02
3,4-Dimethylheptane	<0.01
2-Methyloctane	<0.01
m-Xylene	<0.01
p-Xylene	<0.01
3-Methyloctane	<0.01
1-Nonene	<0.01
3,3-Diethylpentane	<0.01
t-3-Nonene	<0.01
c3-Nonene	<0.01
o-Xylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07  
 Date Received: 01/26/07  
 Project: 3820 Manila Ave., PO# 2513, F&BI 701249  
 Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
 FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
 NAPHTHENES, AND AROMATICS  
 Results Reported as % by Weight**

Client ID                      Product  
 Laboratory ID                701249-01

<u>Compound</u>	<u>Weight Percent</u>
n-Nonane	<0.01
Isobutylcyclopentane	<0.01
t-2-Nonene	<0.01
c-2-Nonene	<0.01
Isopropylbenzene	<0.01
3,3-Dimethyloctane	6.08
n-Butylcyclopentane	<0.01
n-Propylbenzene	<0.01
2,3-Dimethyloctane	<0.01
1-Methyl-3-ethylbenzene	<0.01
1-Methyl-4-ethylbenzene	<0.01
2-Methylnonane	<0.01
3-Ethyloctane	<0.01
3-Methylnonane	10.09
1,3,5-Trimethylbenzene	<0.01
1-Methyl-2-ethylbenzene	<0.01
1,2,4-Trimethylbenzene	<0.01
tert-Butylbenzene	<0.01
n-Decane	<0.01
Isobutylbenzene	<0.01
Isopropylcyclohexane	<0.01
sec-Butylbenzene	<0.01
1-Methyl-3-isopropylbenzene	<0.01
Isobutylcyclohexane	<0.01
1-Methyl-4-isopropylbenzene	<0.01
1,2,3-Trimethylbenzene	<0.01
Indan	<0.01
1-Methyl-3-n-propylbenzene	<0.01
1-Methyl-4-n-propylbenzene	<0.01
n-Butylbenzene	<0.01
1,3-Dimethyl-5-ethylbenzene	<0.01
1,2-Diethylbenzene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Client ID                      Product  
Laboratory ID                701249-01

<u>Compound</u>	<u>Weight Percent</u>
1-Methyl-2-n-propylbenzene	<0.01
1,4-Dimethyl-2-ethylbenzene	<0.01
1,2-Dimethyl-4-ethylbenzene	<0.01
1,3-Dimethyl-2-ethylbenzene	<0.01
1,2-Dimethyl-3-ethylbenzene	<0.01
n-Undecane	<0.01
1,2,4,5-Tetramethylbenzene	<0.01
2-Methylbutylbenzene	<0.01
n-Pentylbenzene	<0.01
Methylindan	<0.01
1-tert-Butyl-3,5-dimethylbenzene	<0.01
1-tert-Butyl-4-ethylbenzene	<0.01
n-Dodecane	<0.01
1,3,5-Triethylbenzene	<0.01
1,2,4-Triethylbenzene	<0.01
Naphthalene	<0.01
n-Hexylbenzene	<0.01
2-Methylnaphthalene	<0.01
n-Tridecane	<0.01
1-Methylnaphthalene	<0.01
n-Tetradecane	<0.01
n-Pentadecane	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07  
 Date Received: 01/26/07  
 Project: 3820 Manila Ave., PO# 2513, F&BI 701249  
 Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
 FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
 NAPHTHENES, AND AROMATICS  
 Results Reported as % by Weight**

Client ID                      Product  
 Laboratory ID                701249-01

**PIANO SUMMARY**

	<u>Weight Percent</u>
Total Identified Compounds	16.20
Oxygenated Compounds	0.00
Hydrocarbon Compounds	16.20
Unidentified Compounds	83.80
Total	100

	<b>PARAFFINS</b>	<b>ISOPARAFFINS</b>	<b>AROMATICS</b>	<b>NAPHTHENES</b>
		<b>OLEFINS</b>	<b>TOTAL</b>	
C3	<0.01			<0.01
C4	<0.01	<0.01		<0.01
C5	<0.01	<0.01	<0.01	<0.01
C6	<0.01	<0.01	<0.01	<0.01
C7	<0.01	<0.01	<0.01	<0.01
C8	<0.01	<0.01	<0.01	<0.01
C9	<0.01	0.02	<0.01	0.02
C10	<0.01	16.18	<0.01	16.18
C11	<0.01		<0.01	<0.01
C12	<0.01		<0.01	<0.01
C13	<0.01			<0.01
C14	<0.01			<0.01
C15	<0.01			<0.01
Total	<0.01	16.20	<0.01	<0.01



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Laboratory ID 701249-02  
Client ID SOMA-4

<u>Compound</u>	<u>Weight Percent</u>
Propane	<0.01
Methanol	<0.01
Isobutane	<0.01
2-Methyl-1-propene	<0.01
Ethanol	<0.01
n-Butane	<0.01
t-2-Butene	<0.01
c-2-Butene	<0.01
Isopropanol	<0.01
3-Methyl-1-butene	<0.01
Isopentane	<0.01
tert-Butanol	<0.01
1-Pentene	<0.01
2-Methyl-1-butene	<0.01
n-Propanol	<0.01
n-Pentane	<0.01
t-2-Pentene	<0.01
c-2-Pentene	<0.01
2-Methyl-2-butene	<0.01
MTBE	<0.01
sec-Butanol	<0.01
4-Methyl-1-pentene	<0.01
Isobutanol	<0.01
2,3-Dimethylbutane	<0.01
Cyclopentane	<0.01
2-Methylpentane	<0.01
DIPE	<0.01
3-Methylpentane	<0.01
1-Hexene	<0.01
ETBE	<0.01
n-Hexane	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Laboratory ID 701249-02  
Client ID SOMA-4

<u>Compound</u>	<u>Weight Percent</u>
t-2-Hexene	<0.01
2-Methyl-1-pentene	<0.01
2-Methyl-2-pentene	<0.01
c-2-Hexene	<0.01
2,2-Dimethylpentane	<0.01
2,4-Dimethylpentane	<0.01
Methylcyclopentane	<0.01
2,2,3-Trimethylbutane	<0.01
Benzene	<0.01
1-Methylcyclopentene	<0.01
TAME	<0.01
3,3-Dimethylpentane	<0.01
Cyclohexane	<0.01
2-Methylhexane	<0.01
2,3-Dimethylpentane	<0.01
1,1-Dimethylcyclopentane	<0.01
3-Methylhexane	<0.01
c-1,3-Dimethylcyclopentane	<0.01
3-Ethylpentane	<0.01
Isooctane	<0.01
t-1,2-Dimethylcyclopentane	<0.01
1-Heptene	<0.01
n-Heptane	<0.01
t-3-Heptene	<0.01
c-3-Heptene	<0.01
t-2-Heptene	<0.01
c-2-Heptene	<0.01
2,2-Dimethylhexane	<0.01
2,5-Dimethylhexane	<0.01
Methylcyclohexane	0.02
2,4-Dimethylhexane	<0.01
Ethylcyclopentane	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Laboratory ID 701249-02  
Client ID SOMA-4

<u>Compound</u>	<u>Weight Percent</u>
t-1,c-2,4-Trimethylcyclopentane	0.01
t-1,c-2,3-Trimethylcyclopentane	0.01
2,3,4-Trimethylpentane	<0.01
Toluene	0.01
2,3-Dimethylhexane	<0.01
2-Methylheptane	0.01
3-Methylheptane	0.01
4-Methylheptane	<0.01
3-Ethylhexane	<0.01
1-Octene	<0.01
1,2,3-Trimethylcyclopentane	0.01
t-1,2-Dimethylcyclohexane	0.07
n-Octane	0.04
1-Ethyl-1-methylcyclopentane	0.01
c-2-Octene	<0.01
c-1,2-Dimethylcyclohexane	0.05
Isopropylcyclopentane	0.01
2,5-Dimethylheptane	0.12
3,5-Dimethylheptane	0.03
n-Propylcyclopentane	0.03
Ethylbenzene	<0.01
2,3-Dimethylheptane	0.16
3,4-Dimethylheptane	<0.01
2-Methyloctane	<0.01
m-Xylene	0.03
p-Xylene	0.03
3-Methyloctane	0.84
1-Nonene	<0.01
3,3-Diethylpentane	<0.01
t-3-Nonene	0.15
c3-Nonene	0.04
o-Xylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07  
 Date Received: 01/26/07  
 Project: 3820 Manila Ave., PO# 2513, F&BI 701249  
 Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
 FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
 NAPHTHENES, AND AROMATICS  
 Results Reported as % by Weight**

Laboratory ID 701249-02  
 Client ID SOMA-4

<u>Compound</u>	<u>Weight Percent</u>
n-Nonane	3.23
Isobutylcyclopentane	0.15
t-2-Nonene	<0.01
c-2-Nonene	<0.01
Isopropylbenzene	<0.01
3,3-Dimethyloctane	0.33
n-Butylcyclopentane	0.86
n-Propylbenzene	<0.01
2,3-Dimethyloctane	1.15
1-Methyl-3-ethylbenzene	<0.01
1-Methyl-4-ethylbenzene	<0.01
2-Methylnonane	4.13
3-Ethyloctane	1.93
3-Methylnonane	4.66
1,3,5-Trimethylbenzene	0.37
1-Methyl-2-ethylbenzene	<0.01
1,2,4-Trimethylbenzene	<0.01
tert-Butylbenzene	<0.01
n-Decane	4.12
Isobutylbenzene	<0.01
Isopropylcyclohexane	<0.01
sec-Butylbenzene	<0.01
1-Methyl-3-isopropylbenzene	<0.01
Isobutylcyclohexane	<0.01
1-Methyl-4-isopropylbenzene	<0.01
1,2,3-Trimethylbenzene	0.94
Indan	0.05
1-Methyl-3-n-propylbenzene	0.67
1-Methyl-4-n-propylbenzene	0.43
n-Butylbenzene	<0.01
1,3-Dimethyl-5-ethylbenzene	0.43
1,2-Diethylbenzene	0.07

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07

Date Received: 01/26/07

Project: 3820 Manila Ave., PO# 2513, F&BI 701249

Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
NAPHTHENES, AND AROMATICS  
Results Reported as % by Weight**

Laboratory ID 701249-02  
Client ID SOMA-4

<u>Compound</u>	<u>Weight Percent</u>
1-Methyl-2-n-propylbenzene	0.36
1,4-Dimethyl-2-ethylbenzene	0.28
1,2-Dimethyl-4-ethylbenzene	0.31
1,3-Dimethyl-2-ethylbenzene	<0.01
1,2-Dimethyl-3-ethylbenzene	<0.01
n-Undecane	4.83
1,2,4,5-Tetramethylbenzene	0.13
2-Methylbutylbenzene	<0.01
n-Pentylbenzene	0.03
Methylindan	0.04
1-tert-Butyl-3,5-dimethylbenzene	<0.01
1-tert-Butyl-4-ethylbenzene	<0.01
n-Dodecane	0.28
1,3,5-Triethylbenzene	<0.01
1,2,4-Triethylbenzene	<0.01
Naphthalene	0.04
n-Hexylbenzene	<0.01
2-Methylnaphthalene	0.01
n-Tridecane	0.05
1-Methylnaphthalene	0.01
n-Tetradecane	0.02
n-Pentadecane	0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/07  
 Date Received: 01/26/07  
 Project: 3820 Manila Ave., PO# 2513, F&BI 701249  
 Date Analyzed: 02/22/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
 FOR PARAFFINS, ISOPARAFFINS, OLEFINS,  
 NAPHTHENES, AND AROMATICS  
 Results Reported as % by Weight**

Laboratory ID 701249-02  
 Client ID SOMA-4

**PIANO SUMMARY**

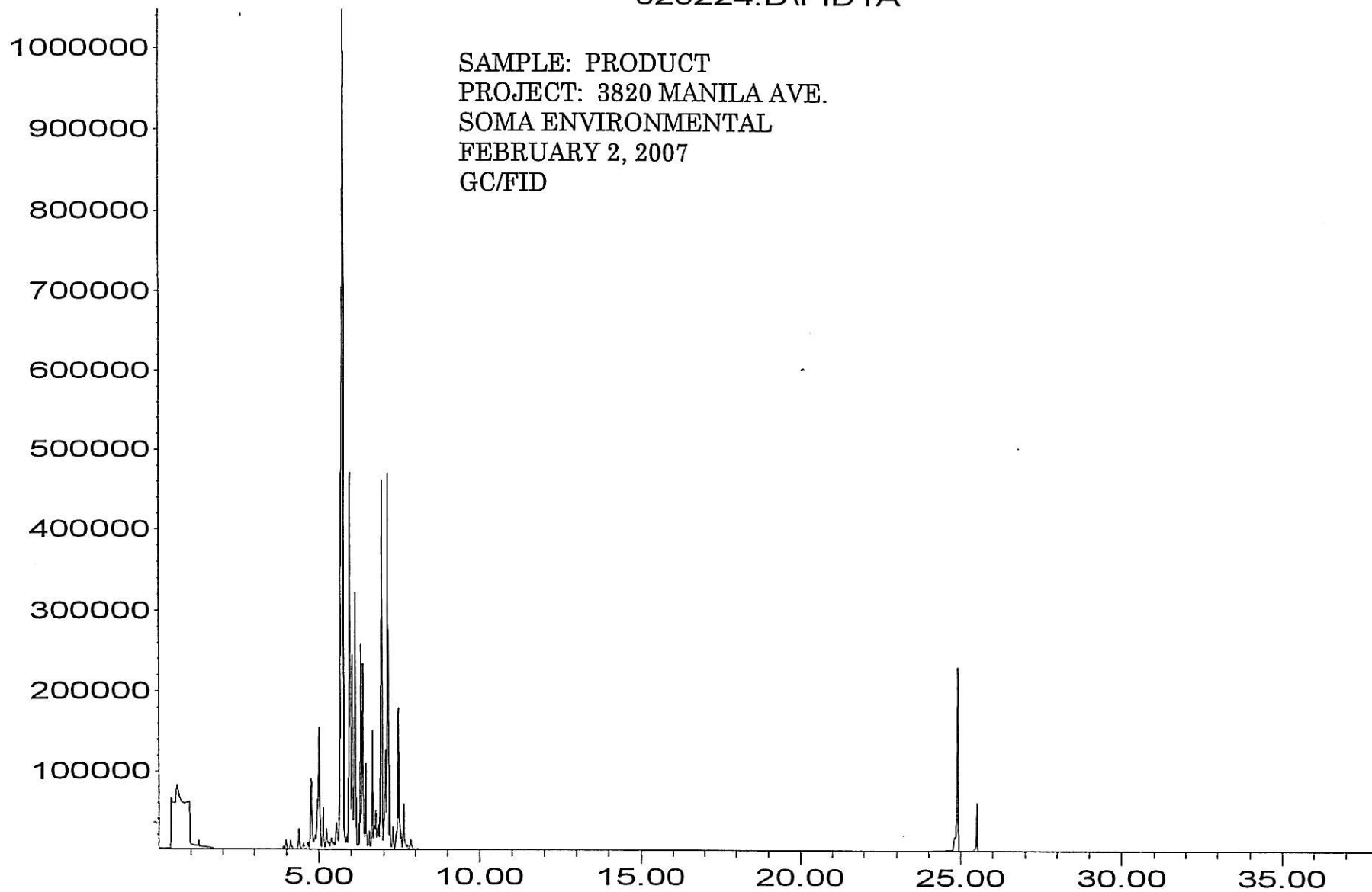
	<u>Weight Percent</u>
Total Identified Compounds	31.64
Oxygenated Compounds	0.00
Hydrocarbon Compounds	31.64
Unidentified Compounds	68.36
Total	100

	<b>PARAFFINS</b>	<b>ISOPARAFFINS</b>	<b>OLEFINS</b>	<b>AROMATICS TOTAL</b>	<b>NAPHTHENES</b>
C3	<0.01				<0.01
C4	<0.01	<0.01		<0.01	<0.01
C5	<0.01	<0.01		<0.01	<0.01
C6	<0.01	<0.01	<0.01	<0.01	<0.01
C7	<0.01	<0.01	0.01	0.02	<0.01
C8	0.04	0.03	0.07	0.20	<0.01
C9	3.23	1.16	1.37	1.01	0.19
C10	4.12	12.20	2.77	<0.01	19.09
C11	4.83		0.04		4.87
C12	0.28		<0.01		0.28
C13	0.05				0.05
C14	0.02				0.02
C15	0.01				0.01
Total	12.58	13.39	4.26	1.22	0.19

Response\_

020224.D\FID1A

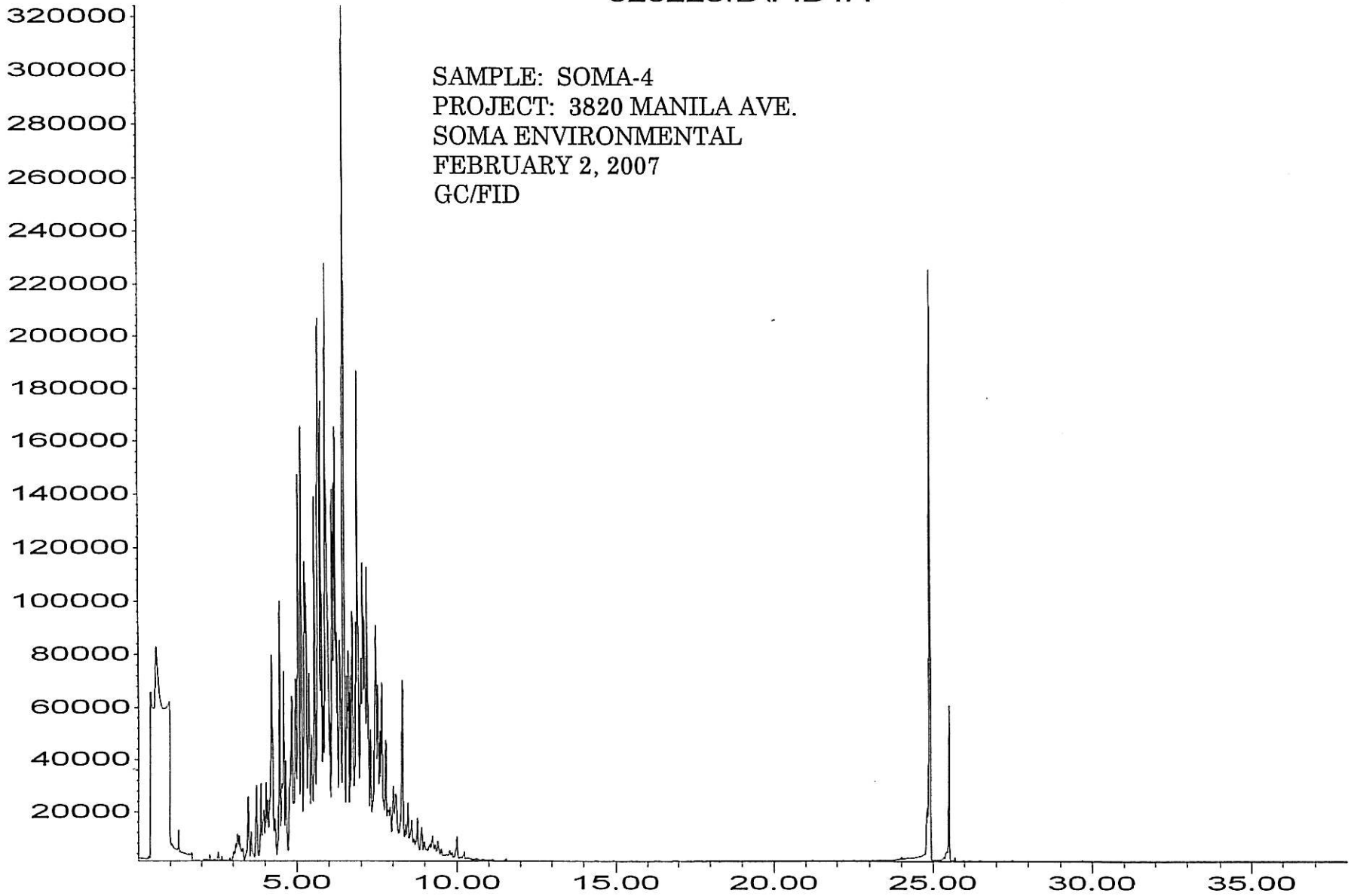
SAMPLE: PRODUCT  
PROJECT: 3820 MANILA AVE.  
SOMA ENVIRONMENTAL  
FEBRUARY 2, 2007  
GC/FID



Time

Response\_

020225.D\FID1A



SAMPLE: SOMA-4  
PROJECT: 3820 MANILA AVE.  
SOMA ENVIRONMENTAL  
FEBRUARY 2, 2007  
GC/FID

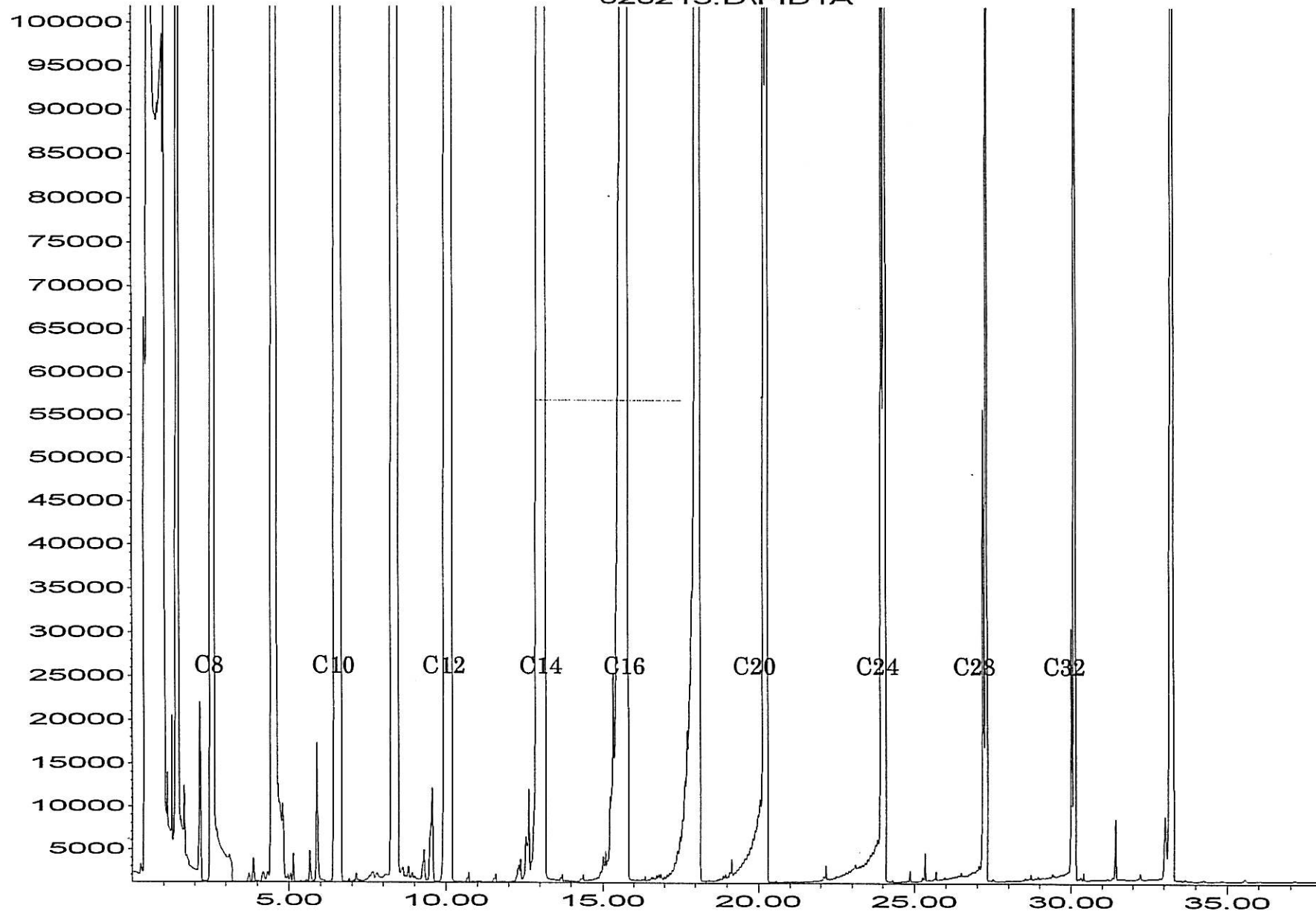
Time



Response\_

N-ALKANE STANDARD  
GC/FID

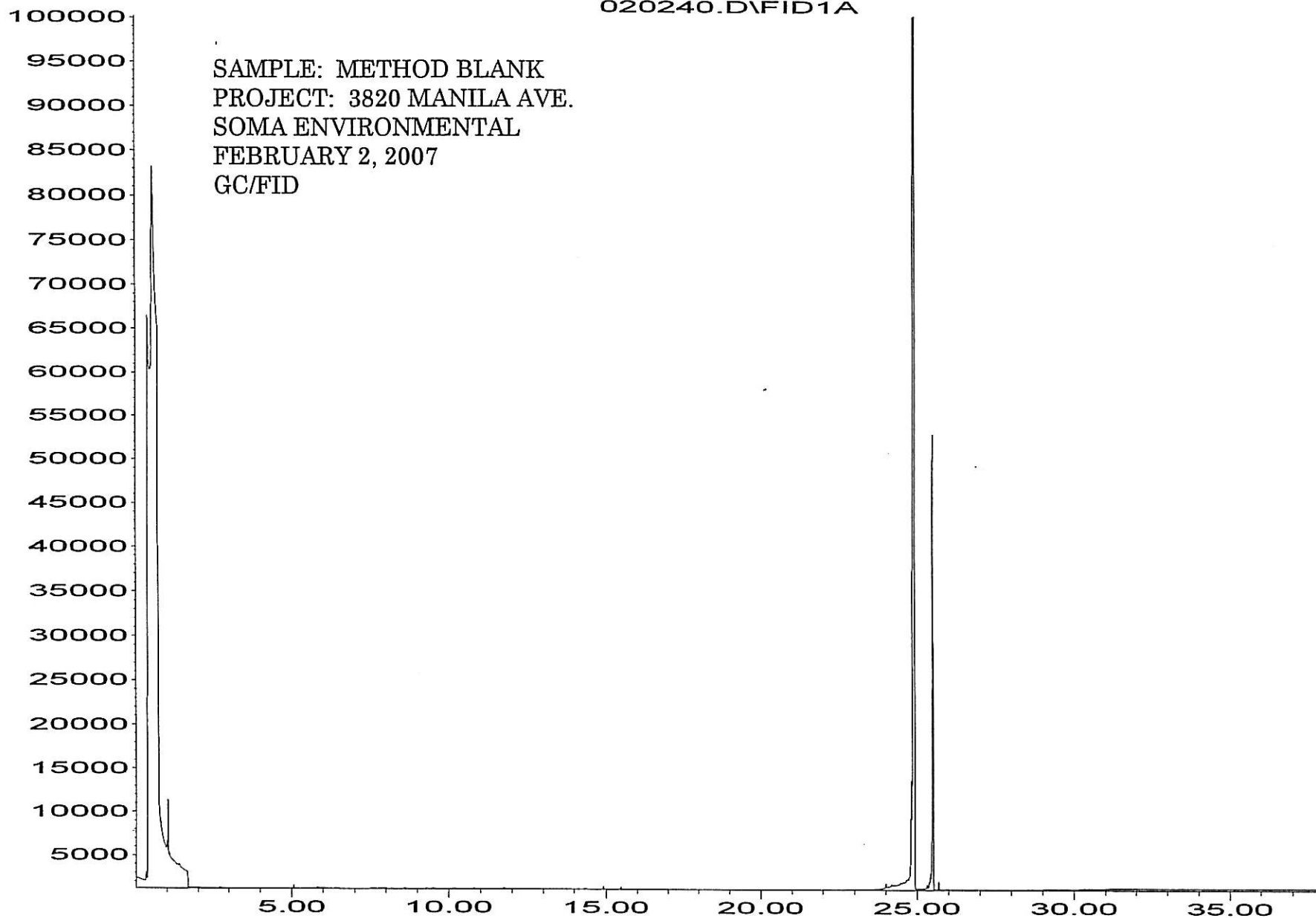
020215.D\FID1A



Time

Response\_

020240.D\FID1A



SAMPLE: METHOD BLANK  
PROJECT: 3820 MANILA AVE.  
SOMA ENVIRONMENTAL  
FEBRUARY 2, 2007  
GC/FID

Time

703206

SAMPLE CHAIN OF CUSTODY

MP 03/22/07

B02

Send Report To

Company SOMA Environmental Eng., Inc

Address 16620 Owens Dr, Suite A

City, State, ZIP Pleasanton, CA 94588

Phone # 925-734-6400 Fax # 925-734-6401

SAMPLERS (signature) Brian Tims

PROJECT NAME/NO. Glovatorium PO # 2513

REMARKS EDF output requested

Page # 1 of 1

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Finger Printing						
PD-1	01	2/28/07	11:00AM	Waste Product	1													
PD-2	02	2/28/07	11:05AM	"	1													
PD-3	03	2/28/07	11:10AM	"	1													

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Mansour Sepehr</u>	<u>SOMA Env.</u>	<u>3/20/07</u>	<u>4:00 pm</u>
Received by: <u>[Signature]</u>	<u>Nhan Phan</u>	<u>FeBI</u>	<u>3/22/07</u>	<u>10:00</u>
Relinquished by:				
Received by:		<u>Samples received at</u>	<u>5 °C</u>	

FRIEDMAN & BRUYA, INC.  
ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

April 27, 2007

Mansour Sepehr, Project Manager  
SOMA Environmental  
6620 Owens Dr., Suite A  
Pleasanton, CA 94588

Dear Mr. Sepehr:

Included is an amended cover letter for the report issued by Friedman and Bruya, Inc. (F&BI) on April 25, 2007 for the Glovatorium, PO# 2513, F&BI 703206 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson  
Chemist

Enclosures  
NAA0425R.DOC

## FRIEDMAN &amp; BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

April 25, 2007

Mansour Sepehr, Project Manager  
SOMA Environmental  
6620 Owens Dr., Suite A  
Pleasanton, CA 94588

Dear Mr. Sepehr:

Included are the results from the testing of material submitted on March 22, 2007 from the Glovatorium, PO# 2513, F&BI 703206 project. The product samples submitted for forensic evaluation arrived in good condition. Upon arrival, the samples PD-1, PD-2, and PD-3 were placed in a refrigerator maintained at 4°C until removed for sample processing.

The samples PD-1, PD-2, and PD-3 were diluted and analyzed using a gas chromatograph with a flame ionization detector (GC/FID). The data generated yielded information on the boiling range and general chemical composition of the material present. The GC/FID traces are enclosed. A GC/FID trace of a standard consisting of normal alkanes is also provided for reference purposes.

Based on the data generated, the samples PD-1, PD-2, and PD-3 contain a low boiling material such as petroleum solvent or similar materials. The samples also contain a higher boiling unknown material.

As requested, we have also reviewed the report issued by Friedman and Bruya, Inc. (F&BI) on March 12, 2007 for the 3820 Manila Ave., PO# 2513, F&BI 701249 project. This report included testing of the samples Product and SOMA-4 using GC/FID. Comparison of the GC/FID traces generated shows that the low boiling material present in the samples PD-1, PD-2, and PD-3 is consistent with that found in the sample Product, but is not consistent with that found in the sample SOMA-4.

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

April 25, 2007

Mansour Sepehr, Project Manager  
SOMA Environmental  
6620 Owens Dr., Suite A  
Pleasanton, CA 94588

Dear Mr. Sepehr:

Included are the results from the testing of material submitted on March 22, 2007 from the Glovatorium, PO# 2513, F&BI 703206 project. The product samples submitted for forensic evaluation arrived in good condition. Upon arrival, the samples PD-1, PD-2, and PD-3 were placed in a refrigerator maintained at 4°C until removed for sample processing.

The samples PD-1, PD-2, and PD-3 were diluted and analyzed using a gas chromatograph with a flame ionization detector (GC/FID). The data generated yielded information on the boiling range and general chemical composition of the material present. The GC/FID traces are enclosed. A GC/FID trace of a standard consisting of normal alkanes is also provided for reference purposes.

Based on the data generated, the samples PD-1, PD-2, and PD-3 contain a low boiling material such as petroleum solvent or similar materials. The samples also contain a higher boiling unknown material.

As requested, we have also reviewed the report issued by Friedman and Bruya, Inc. (F&BI) on March 12, 2007 for the 3820 Manila Ave., PO# 2513, F&BI 701249 project. This report included testing of the sample Product using GC/FID. Comparison of the GC/FID traces generated shows that the low boiling material present in the samples PD-1, PD-2, and PD-3 is consistent with that found in the sample Product.

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

Mansour Sepehr

April 25, 2007

Page 2

Please contact us if additional consultation is needed by our firm in the interpretation of the analytical results provided. We appreciate this opportunity to be of service to you and hope you will call if you should have any questions. We will hold your samples for 30 days before disposal unless directed otherwise.

Sincerely,

FRIEDMAN & BRUYA, INC.

A handwritten signature in black ink, appearing to read 'Kurt Johnson', with a large, stylized flourish at the end.

Kurt Johnson  
Chemist

Enclosures  
NAA0425R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/25/07  
Date Received: 03/22/07  
Project: Glovatorium, PO# 2513, F&BI 703206  
Date Extracted: 03/27/07  
Date Analyzed: 03/27/07

**RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE  
FOR FORENSIC EVALUATION  
BY CAPILLARY GAS CHROMATOGRAPHY  
USING A FLAME IONIZATION DETECTOR (FID)**

Sample ID

GC Characterization

PD-1

The GC trace using the flame ionization detector (FID) showed the presence of low and high boiling compounds. The patterns displayed by these peaks are indicative of petroleum solvent or similar materials, as well as a higher boiling unknown material.

The low to medium boiling compounds appear as a regular pattern of peaks on top of a small hump or unresolved complex mixture (UCM). This material elutes from *n*-C<sub>8</sub> to *n*-C<sub>11</sub> showing a maximum near *n*-C<sub>10</sub>. This correlates with a temperature range of approximately 130°C to 200°C with a maximum near 170°C. Within this range, a discernible pattern of peaks characteristic of the normal alkanes was not identified.

The high boiling compounds appear as an irregular pattern of peaks on top of a broad hump or UCM. This material elutes from *n*-C<sub>12</sub> to beyond *n*-C<sub>36</sub> showing a maximum near *n*-C<sub>32</sub>. This correlates with a temperature range of approximately 220°C to beyond 500°C with a maximum near 470°C.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/25/07  
Date Received: 03/22/07  
Project: Glovatorium, PO# 2513, F&BI 703206  
Date Extracted: 03/27/07  
Date Analyzed: 03/27/07

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Sample ID

GC Characterization

PD-2

The GC trace using the flame ionization detector (FID) showed the presence of low and high boiling compounds. The patterns displayed by these peaks are indicative of petroleum solvent or similar materials, as well as a higher boiling unknown material.

The low to medium boiling compounds appear as a regular pattern of peaks on top of a small hump or unresolved complex mixture (UCM). This material elutes from *n*-C<sub>8</sub> to *n*-C<sub>11</sub> showing a maximum near *n*-C<sub>10</sub>. This correlates with a temperature range of approximately 130°C to 200°C with a maximum near 170°C. Within this range, a discernible pattern of peaks characteristic of the normal alkanes was not identified.

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Sample ID

GC Characterization

PD-3

The GC trace using the flame ionization detector (FID) showed the presence of low and high boiling compounds. The patterns displayed by these peaks are indicative of petroleum solvent or similar materials, as well as a higher boiling unknown material.

The low to medium boiling compounds appear as a regular pattern of peaks on top of a small hump or unresolved complex mixture (UCM). This material elutes from *n*-C<sub>8</sub> to *n*-C<sub>11</sub> showing a maximum near *n*-C<sub>10</sub>. This correlates with a temperature range of approximately 130°C to 200°C with a maximum near 170°C. Within this range, a discernible pattern of peaks characteristic of the normal alkanes was not identified.

The high boiling compounds appear as an irregular pattern of peaks on top of a broad hump or UCM. This material elutes from *n*-C<sub>12</sub> to beyond *n*-C<sub>36</sub> showing a maximum near *n*-C<sub>32</sub>. This correlates with a temperature range of approximately 220°C to beyond 500°C with a maximum near 470°C.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.

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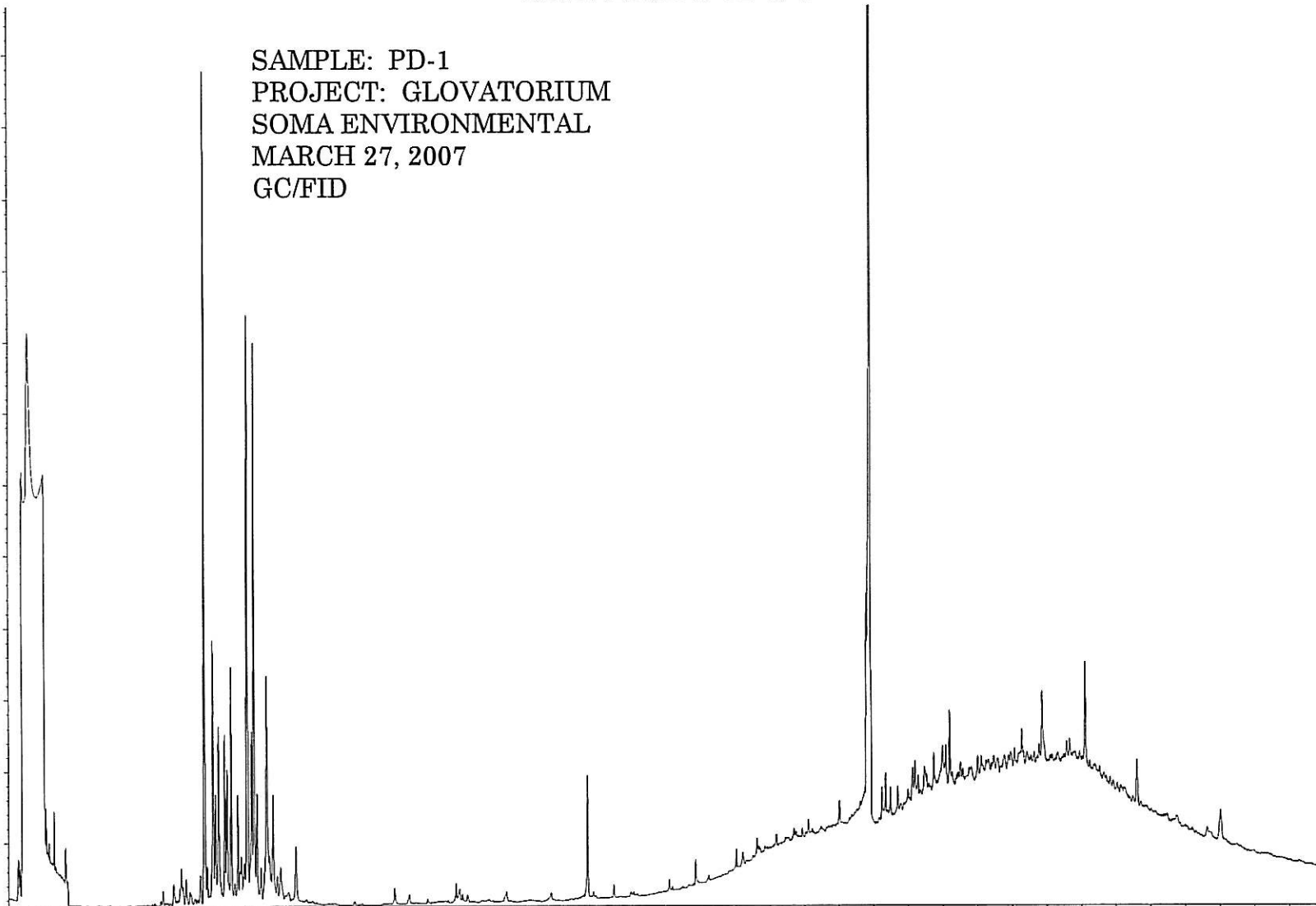
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SAMPLE: PD-1  
PROJECT: GLOVATORIUM  
SOMA ENVIRONMENTAL  
MARCH 27, 2007  
GC/FID

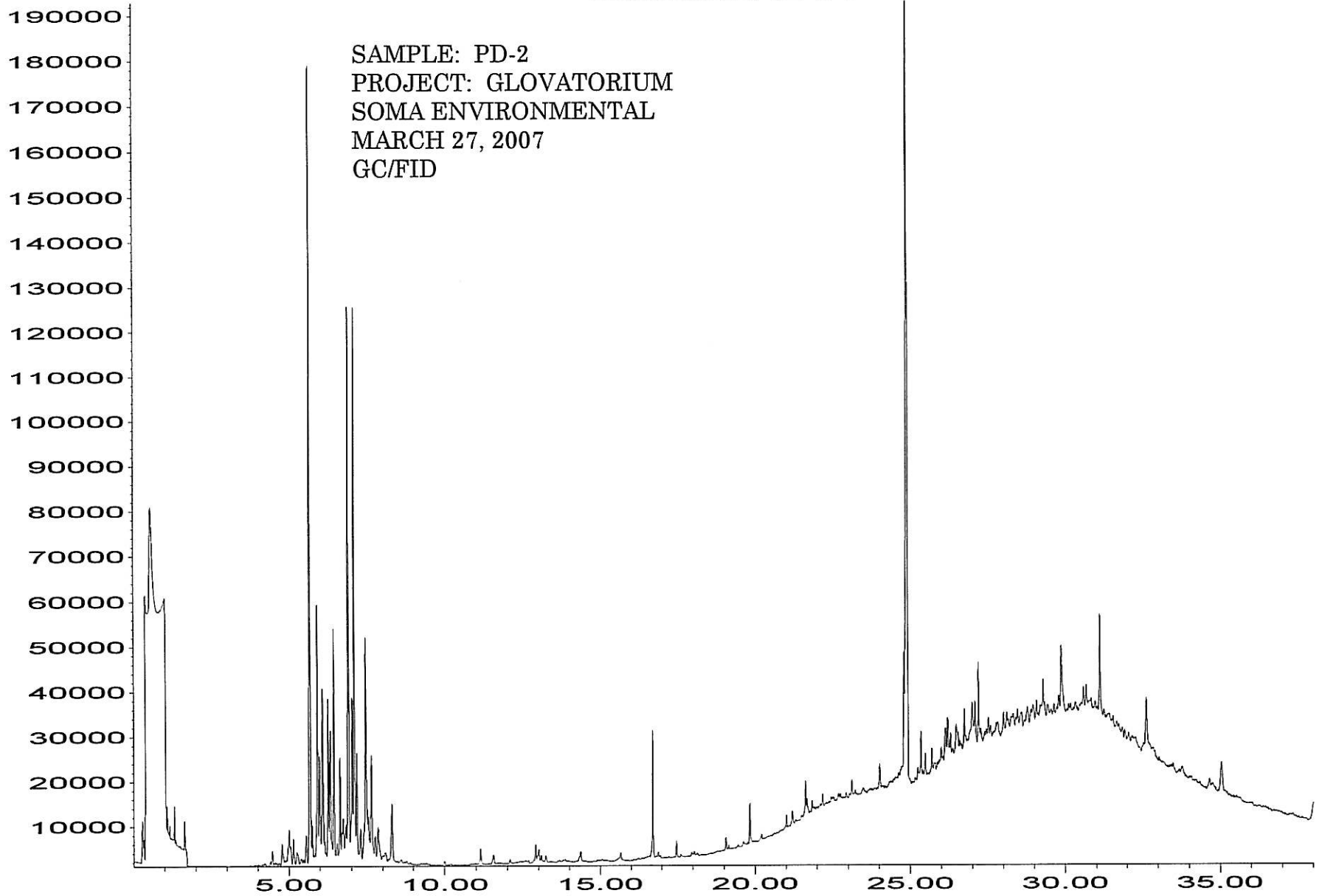
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Time



Response\_

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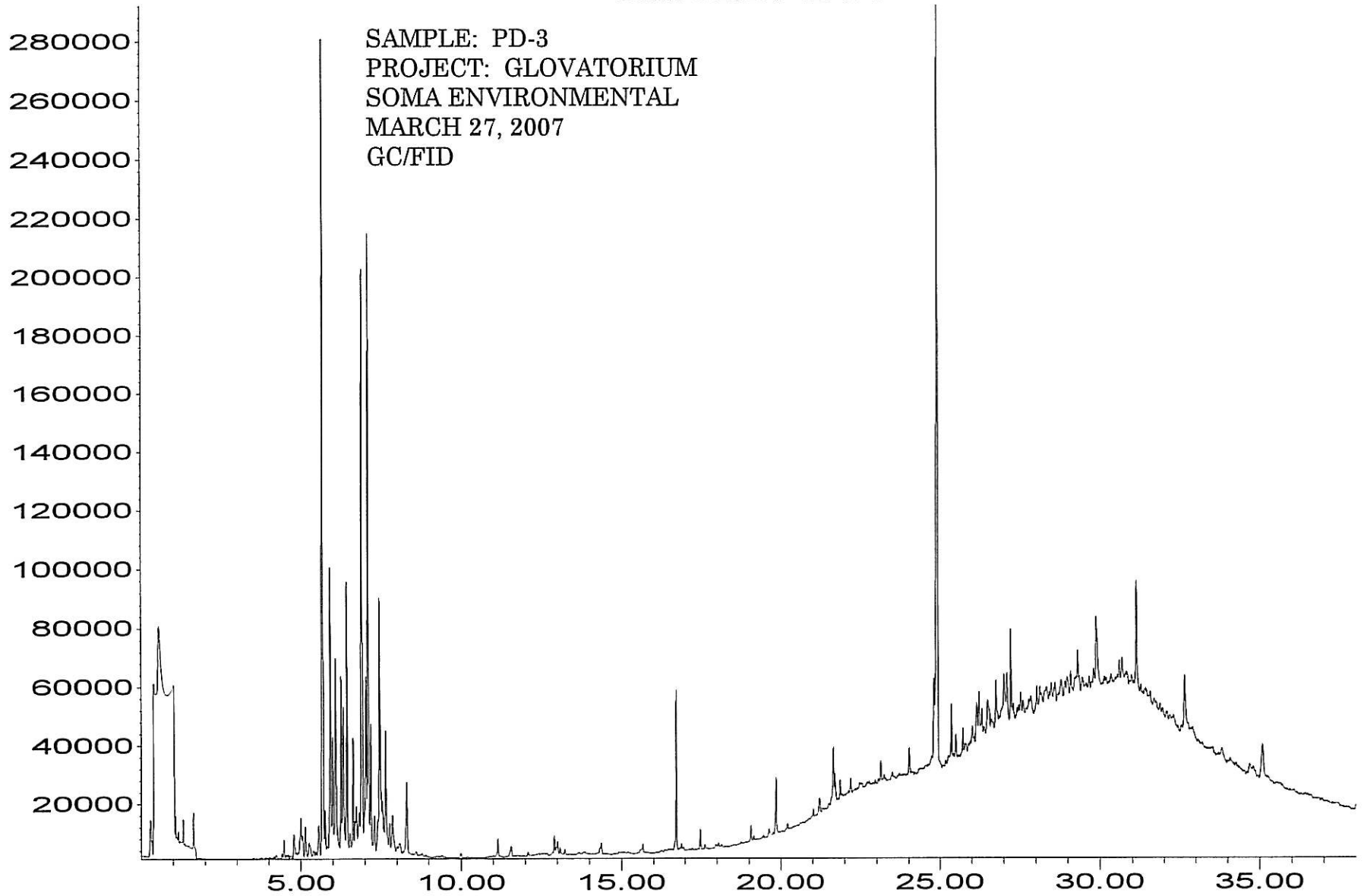


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PROJECT: GLOVATORIUM  
SOMA ENVIRONMENTAL  
MARCH 27, 2007  
GC/FID

Time

Response\_

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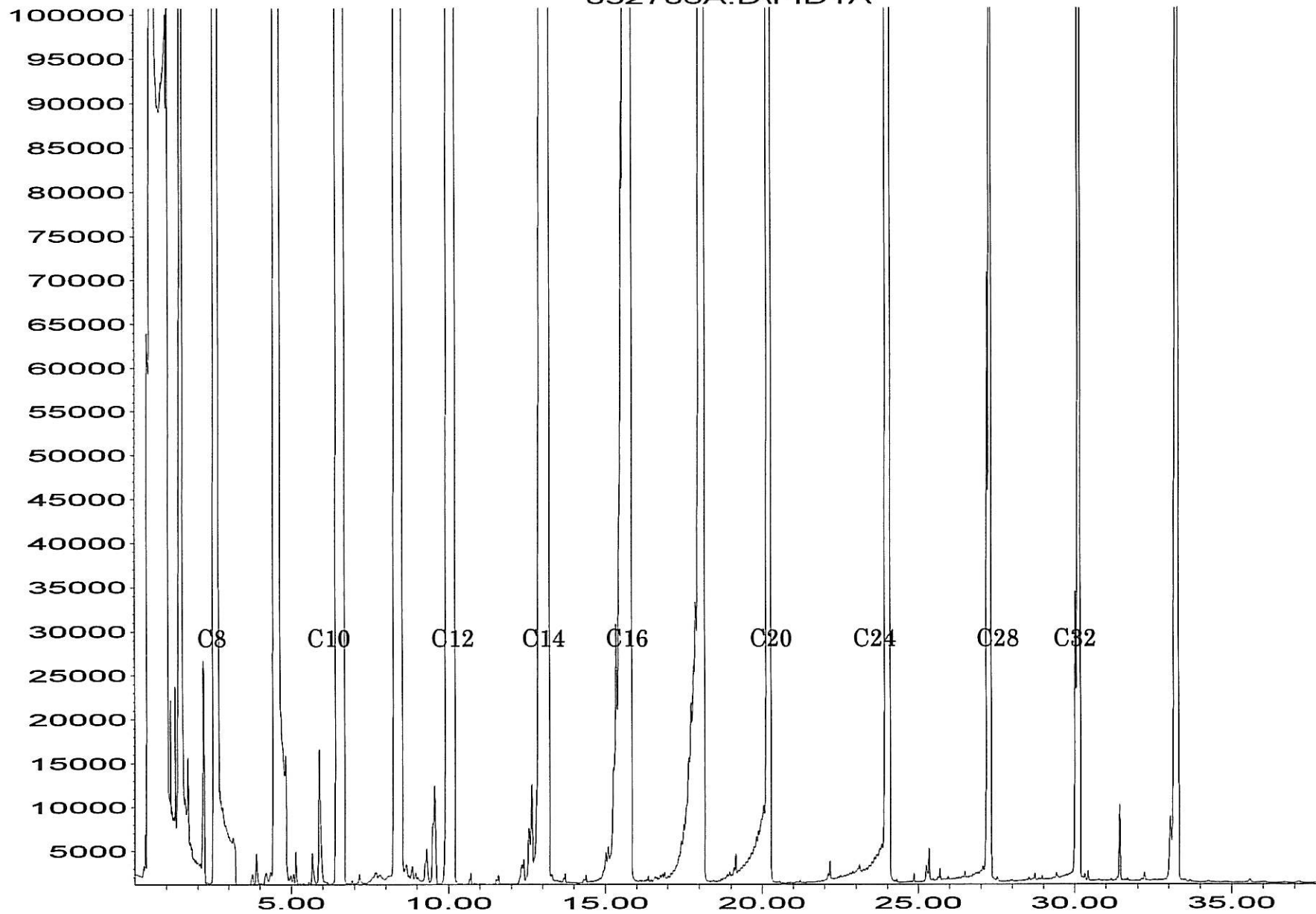


Time

Response\_

N-ALKANE STANDARD  
GC/FID

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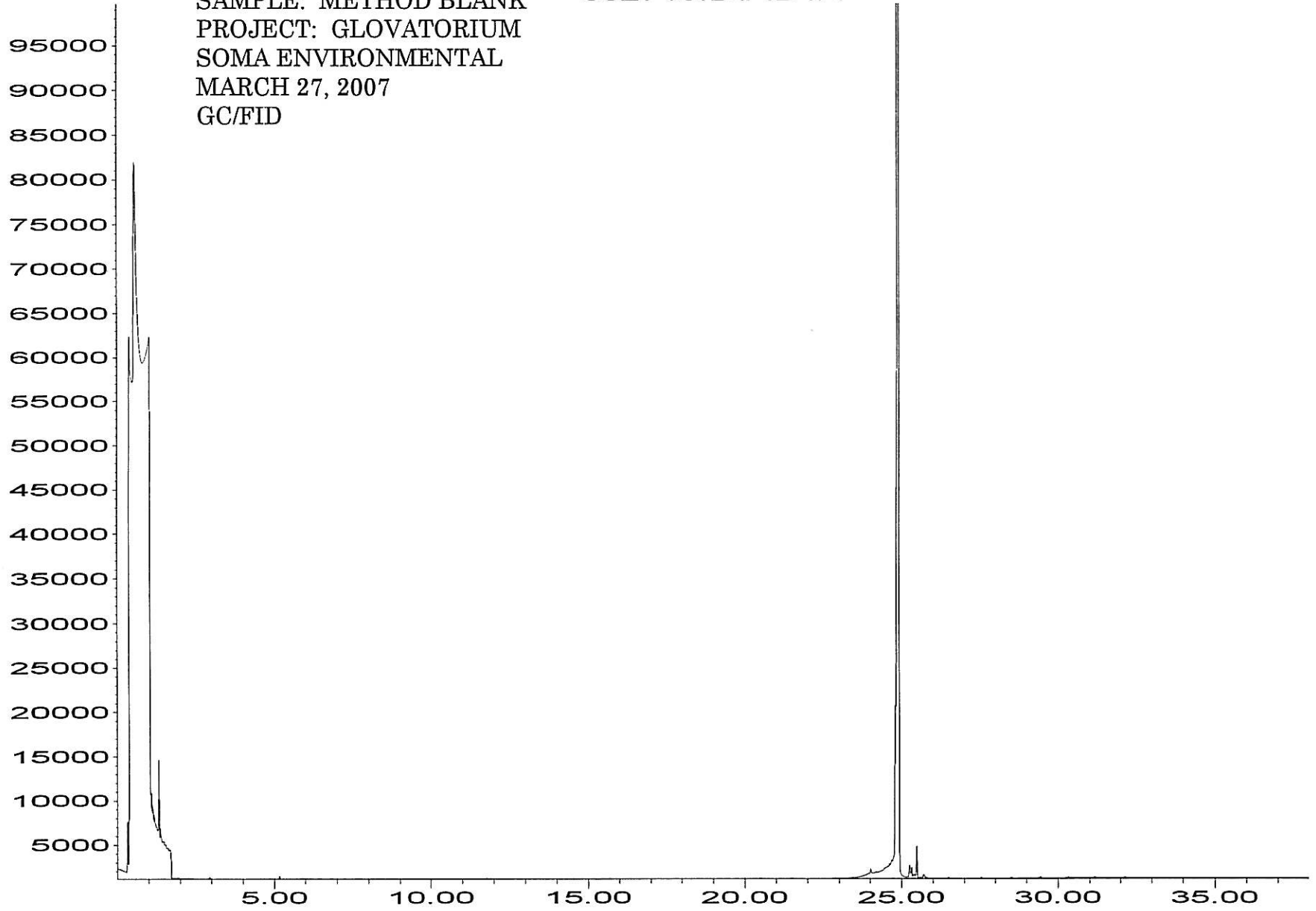


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Response\_

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PROJECT: GLOVATORIUM  
SOMA ENVIRONMENTAL  
MARCH 27, 2007  
GC/FID

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Time