



Alameda County

FEB 10 2003

Environmental Health Transmittal

To: Mr. Balaji S. Angle
 Angle's AM-PM Mini Mart
 35584 Connovan Lane
 Fremont, CA 94536

From: Katrin Schliewen
Date: February 5, 2003
Proj. No.: BNC103

Copies	Description	Sent by:
2	Fouth Quarter 2002 Groundwater Monitoring Results, B&C Gas Mini Mart, Livermore, California	<input type="checkbox"/> Regular Mail <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Other

Comments:

Dear Mr. Angle,

Included is an extra copy of the report for submittal to the CA State Tank Fund.

Thank you, Katrin.

cc:

Copies	Name & Address	Sent by:
1	Donna Dregas, Alameda County Env. Health Services	<input checked="" type="checkbox"/> Regular Mail
1	Colleen Winey, Alameda County Zone 7	<input type="checkbox"/> FedEx
1	Regional Water Quality Control Board, LUFT	<input type="checkbox"/> Courier
1	California SWRCB Tank Fund	<input type="checkbox"/> Other

20-278

Conor Pacific

December 5, 2002
Project No. BNC103

Alameda County
DEC 10 2002
Environmental Health

Mr. Balaji Angle
Angle Enterprises
5131 Shattuck Avenue
Oakland, California 94609

Re: Third Quarter 2002 Groundwater Monitoring Results, B&C Gas Mini Mart, 2008 First Street, Livermore, California (Station ID 1689)

Dear Mr. Angle:

Conor Pacific has compiled third quarter 2002 groundwater monitoring results for B&C Gas Mini Mart (B&C), 2008 First Street, Livermore, California (Figure 1). This report includes third quarter 2002 groundwater elevation data, groundwater sampling methods, and results of groundwater chemical analyses. Nine out of the sixteen on- and off-site monitoring wells were scheduled to be sampled during the third quarter. During the third quarter 2002 sampling event, seven of the nine wells were sampled. Wells MW-2 and MW-5 were not sampled because free product was observed during water-level measurements.

SITE INFORMATION

Site Name & Contact

Mr. Balaji Angle
B&C Gas Mini Mart
2008 First Street
Livermore, California 94550
(510) 654-3461

Site Description

The B&C property is located on the northeast corner of First and South L Streets in Livermore, California, and currently serves as a gasoline station and mini market and is called Valley Gas. From at least 1988 until 1994, Desert Petroleum (DP) owned and operated the site. In January 1994, DP sold the site to the current owner, Mr. Balaji Angle. The following site description has been compiled from reports on file with Alameda County Environmental Health Services (ACEHS) and information provided by the site owner.

Mr. Balaji Angle
December 5, 2002

The site is located in the Livermore Valley groundwater basin, an area of sedimentary deposition containing braided channel systems with complex interfingering. Subsurface investigations conducted to the west of the B&C site have found an upper unconfined water-bearing zone consisting primarily of gravels with sand and clay. A low-permeability clayey unit is found at depths of approximately 75 to 110 feet below ground surface (bgs). Below the clayey unit, the top of a lower, semi-confined aquifer is found at depths ranging from 110 to 145 feet bgs.¹

Subsurface work conducted in the B&C area has found predominantly sandy clay, silty sand, silty gravel, and sandy gravel. Over the last eleven years, static water levels have ranged from 68.7 feet bgs (January 1992) to 17.0 feet bgs (February 1997). The groundwater flow generally ranges from west of north during the summer and fall months, to north of west during the winter and spring months.

Previous Work Performed at Site

A preliminary site assessment was conducted in September 1988. Three soil borings were completed; one of which was converted to a monitoring well (MW-1). In March 1994, a 280-gallon waste oil underground storage tank (UST) and 25 cubic yards of soil were removed as part of closing the auto repair shop at the station. Three months later in June, wells MW-2, MW-3, and MW-4 were installed (Figure 2).²

In August 1994, free product was encountered in well MW-2, and product removal commenced twice a month. By the end of January 1995 no measurable thickness of product remained, only sheen could be detected.³ In March 1995, a release was reported to have occurred from the union between a tank subpump and product line. The quantity of the release is unknown.

One gasoline UST at the B&C site failed an integrity test in September 1995. The tank was immediately taken out of commission and ACEHS was notified. In July 1996, further source removal was conducted. Two more gasoline USTs were removed, and new double-walled fiberglass USTs and fiberglass piping with automated leak detection were installed. Other remedial activities included the removal of two hydraulic lifts and approximately 700 cubic yards of impacted soil. Also, one 1,000-gallon UST discovered during excavation activities was closed in place with approval from ACEHS and the Livermore Fire Department by grouting with a cement sand slurry. In October 1995, two additional monitoring wells (off-site well MW-5 and well MW-6) were installed for the B&C site (Figure 2).

¹ H⁺GCL, Inc. Deep Groundwater Conduit Study, Livermore Arcade Shopping Center, First Street and South P Street, Livermore, California. December 6, 1993.

² Remediation Service Int'l. Soil & Groundwater Investigation Report for 2008 First Street, Livermore, California. July 22, 1994.

³ Product thickness information from Remediation Service, Int'l field records, "Free Product Removal Logs."

Nine downgradient wells (MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, D-1, and D-2) were installed during June and July 1999 to define the downgradient and lateral extent of the plume and provide long-term monitoring locations (Figure 2).⁴ Two of the wells, D-1 and D-2, are installed in the semi-confined aquifer below the aquitard. The other wells are installed in the upper water-bearing zone. Table 1 summarizes the well construction details for all on-site and off-site wells installed to date.

The primary constituents of concern are total petroleum hydrocarbons as gasoline (TPH-G); the aromatic compounds benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX); and methyl tertiary-butyl ether (MTBE). Since 1994, concentrations of TPH-G in groundwater have generally decreased.

Interim Remedial Action at Well MW-5

Floating product was first observed in well MW-5 on July 30, 1998 (Table 2). The well is screened from 15 feet to 40 feet bgs, and the depth to groundwater has historically ranged from 18 to 33 feet bgs, well within the screened interval of the well. Due to the presence of floating free product in well MW-5, interim remedial actions were taken to remove the floating product from the well. A passive bailer or absorbent sock was selected to remove product from well MW-5 based on well access, the thickness of the product, and the rate at which the product enters the well as it is removed.

Over the time period monitored, the absorbent socks have removed sufficient product to reduce the free product thickness to a sheen or less. During the four sampling events in 2000, free product was not measured in well MW-5 and sampling was conducted. However, free product was observed during the purging of well MW-5 during the March and June 2001 sampling events. The absorbent sock was replaced in the well and groundwater samples were not collected. During this sampling event, the absorbent sock was apparently above the groundwater surface and no product was observed on the sock. The sock was then re-installed and lowered to intersect the water table.

GROUNDWATER SAMPLING AND ANALYSIS

Sampling activities are reviewed below. Groundwater sampling methods and results are presented and a discussion of historical analytical trends for site monitoring wells is included.

Free Product

During this sampling event, Conor Pacific checked for free product in all site wells. Of the wells that previously have been reported to contain free product (Wells MW-2, MW-5, and MW-6), MW-2 and MW-5 contained a measurable thickness of product this

⁴ Einarson, Fowler & Watson, November 5, 1999, Report of Downgradient Investigation, B&C-Gas Mini Mart, 2008 First Street, Livermore, California.

quarter. In addition, free product was observed in off-site well (MS) MW-1. Each well was measured to have only 0.01 feet of free product.

Groundwater Elevations

On September 16, 2002, Conor Pacific measured the depth to water in all groundwater monitoring wells. Water levels were measured to the nearest 0.01 foot using a float-activated product probe, according to Conor Pacific's standard measuring protocol,⁵ and were recorded on a water level data sheet (Appendix A). Groundwater elevations are calculated by subtracting depth-to-water measurements from the top of well casing elevations, surveyed to Livermore City datum, mean sea level (MSL).

Table 2 summarizes the groundwater elevations from the current monitoring event. A groundwater contour map, based on the current water level measurements, is shown in Figure 2. Current groundwater elevations are generally about two feet lower than the previous measurements in June 2001. The groundwater levels are the lowest measured at the site since 1994. Groundwater flow was generally due west during this quarterly monitoring event and the hydraulic gradient is approximately 0.014 foot per foot. The flow direction and gradient are in accordance with previous results.

A vertically downward gradient was observed between the upper water-bearing zone (MW-11 and MW-12) and the semi-confined aquifer (D-1 and D-2), as has been observed during previous quarters.

Sampling Methods

Conor Pacific sampled seven monitoring wells on September 16 and 17, 2002, following Conor Pacific's standard protocol. During this event nine monitoring wells were scheduled to be sampled. However, Well MW-2 and MW-5 were not sampled this quarter due to the presence of floating product. Wells were purged using a one-use, disposable PVC bailer. Samples were collected from each well using the disposable PVC bailer. Field measurements of temperature, pH, dissolved oxygen, turbidity, and electrical conductivity were taken and recorded on water sample field data sheets (Appendix A). All purge water was contained in 55-gallon drums and stored on-site pending proper disposal. Purge water with low hydrocarbon concentrations is pumped to the sanitary sewer under City of Livermore Groundwater Discharge Permit. All samples were properly stored on the day of sampling. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory.

Analytical Program

All groundwater analyses were performed by Sequoia Analytical of Petaluma, California, a state-certified laboratory. All groundwater samples were analyzed for total petroleum

⁵ Einarson, Fowler & Watson. Third Quarter 1998 Groundwater Monitoring Results, B&C Gas Mini Mart, Livermore, California, Appendix A. September 10, 1998.

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hydrocarbons as gasoline (TPH-G) by U.S. Environmental Protection Agency (EPA) Method 8015M and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8020M. Laboratory analyses occurred within specified holding times and within laboratory quality control standards. The certified analytical report is located in Appendix A.

Analytical Results

During the third quarter 2002, hydrocarbon concentrations increased in wells MW-7 and MW-8 when compared to the previous monitoring results (Table 3). The concentrations of benzene, ethylbenzene, and MTBE in well MW-7 were the highest concentrations detected in this well. Benzene was detected in well MW-8 for the first time, at just above the detection limit. The MTBE concentration in well MW-8 increased substantially from previous monitoring. These increases in hydrocarbon concentrations may be the result of the low water levels present during the monitoring event. The concentrations of hydrocarbons detected in well MW-13 (except for ethylbenzene) decreased from previous monitoring events. The remaining wells sampled (MW-9, MW-10, MW-12, and D-2) did not detect hydrocarbon concentrations, consistent with previous results. Analytical results for benzene and MTBE are presented on Figure 3.

SUMMARY

Seven of the nine monitoring wells scheduled for sampling were sampled this quarter. The third quarter 2002 groundwater monitoring results are consistent with previous monitoring results. The furthest downgradient detection of the hydrocarbon plume is seen at well MW-8.

Fourth quarter 2002 groundwater monitoring currently is scheduled for December 2002. If you have any questions regarding this report, please call us at (650) 386-3828.

Sincerely,
Conor Pacific



Kris H. Johnson, C.E.G. 1763
Senior Engineering Geologist

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Attachments:

Tables

- Table 1 - Monitoring Well Constructions
- Table 2 - Summary of Groundwater Elevations
- Table 3 - Groundwater Analytical Results

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Figures

Figure 1 - Site Location

Figure 2 - Well Locations and Groundwater Contours (September 2002)

Figure 3 - Groundwater Chemistry (September 2002)

Appendices

Appendix A - Water Sample Field Data Sheets and Certified Analytical Reports

cc: Eva Chu, Alameda County Environmental Health Services
Ms. Carol Mahoney, Alameda Co. Flood Control and Water Cons. District Zone 7
Regional Water Quality Control Board, San Francisco Bay Region LUFT
State Water Resources Control Board, UST Fund

Table 1
Monitoring Well Constructions
B&C Gas Mini Mart
Livermore, California

Well No.	Drilling Method	Date Installed	T.D. Boring (ft.-bgs)	T.D. Well (ft.-bgs)	Borehole Diameter (inches)	Casing Material (PVC)	Casing Diameter (inches)	Screen Size (inches)	Sand Pack Material	Screened Interval (ft.-bgs)	Sand Pack Interval (ft.-bgs)
MW-1	HSA	Sep-88	77	77	8	PVC	2	0.020	#3 sand	27 - 77	25 - 77
MW-2	HSA	Jun-94	60	60	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-3	HSA	Jun-94	60	60	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-4	HSA	Jun-94	60	60	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-5	HSA	Oct-95	42	40	10	PVC	4	0.020	#2 sand	15 - 40	12 - 40
MW-6	HSA	Oct-95	42	40	10	PVC	4	0.020	#2 sand	15 - 40	12 - 40
MW-7	HSA	Jun-99	62	49	8	PVC	2	0.020	#3 sand	29-49	27-51
MW-8	HSA	Jun-99	62	54	8	PVC	2	0.020	#3 sand	34-54	32-54
MW-9	HSA	Jun-99	45	45	8	PVC	2	0.020	#3 sand	25-45	23-45
MW-10	HSA	Jun-99	55	53.5	8	PVC	2	0.020	#3 sand	33.5-53.5	23-55
MW-11	HSA	Jun-99	50	49	8	PVC	2	0.020	#3 sand	29-49	27-49
MW-12	HSA	Jun-99	45	43.5	8	PVC	2	0.020	#3 sand	23.5-43.5	21-45
MW-13	HSA	Jul-99	55	55	8	PVC	2	0.020	#3 sand	35-55	32-55
D-1	HSA	Jun-99	125	125	8	PVC	2	0.020	#3 sand	110-125	104-125
D-2	HSA	Jun-99	115	114	8	PVC	2	0.020	#3 sand	99-114	94-114
(MS)MW-1	HSA	Apr-89	62	60	NA	PVC	2	NA	NA	30-60	NA

HSA Hollow-Stem Auger
T.D. Total Depth
ft.-bgs feet below ground surface
NA Not available

Well construction information for wells MW-2 through MW-6 collected from Remediation Service Int'l boring logs.

Table 2
 Summary of Groundwater Elevations
 B & C Gas Mini Mart
 Livermore, California

Well Number	Top-of-Casing Elevation (feet, MSL)	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
September 16, 2002					
MW-1	484.07	37.64	446.43		
MW-2	483.86	37.42	446.44	37.41	0.01
MW-3	484.24	36.30	447.94		
MW-4	485.04	36.30	448.74		
MW-5	481.97	36.70	445.27	36.69	0.01
MW-6	483.93	NM*	NM*		
MW-7	478.14	37.05	441.09		
MW-8	473.23	43.32	429.91		
MW-9	477.08	39.13	437.95		
MW-10	471.42	44.03	427.39		
MW-11	464.93	39.87	425.06		
MW-12	458.34	34.63	423.71		
MW-13	474.79	38.98	435.81		
D-1	464.70	43.53	421.17		
D-2	457.61	34.80	422.81		
(MS)MW-1	477.79	41.07	436.72	41.06	0.01

Notes: MSL = mean sea level
 NM = not measured
 MS = Mill Springs Park
 (1) - free product visible in purge or sample water
 * Obstruction in well MW-6 at approximately 28.6 feet below top of casing

Table 3
Groundwater Analytical Results
B&C Gas Mini Mart
Livermore, California

Well No.	Sample Date	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)
MW-1	NS	NS	NS	NS	NS	NS	NS
MW-2	9/16/02	NS**	NS**	NS**	NS**	NS**	NS**
MW-3	NS	NS	NS	NS	NS	NS	NS
MW-4	NS	NS	NS	NS	NS	NS	NS
MW-5	9/16/02	NS**	NS**	NS**	NS**	NS**	NS**
MW-6	NS	NS	NS	NS	NS	NS	NS
MW-7	9/17/02	4,500	47	6.8	99	19	120
MW-8	9/17/02	<50	0.52	<0.5	<0.5	<0.5	55
MW-9	9/17/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-10	9/17/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-11	NS	NS	NS	NS	NS	NS	NS
MW-12	9/16/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5
MW-13	9/17/02	150	7.0	<0.5	5.5	<0.5	27
D-1	NS	NS	NS	NS	NS	NS	NS
D-2	9/16/02	<50	<0.5	<0.5	<0.5	<0.5	<2.5
(MS)MW-1	NS	NS	NS	NS	NS	NS	NS

ug/l = micrograms per liter

TPH-G = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

MS = Mill Springs Park

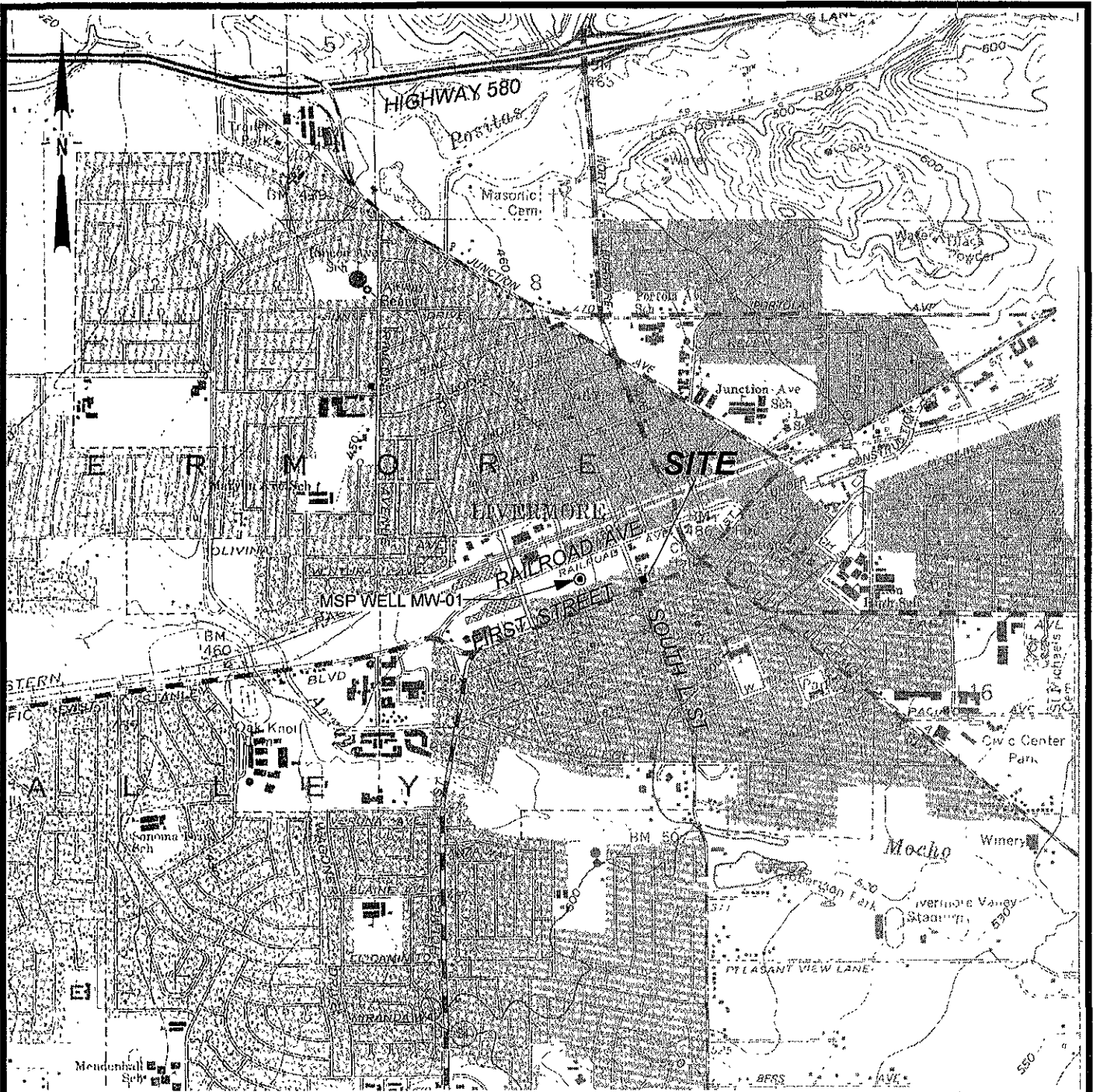
NA= not analyzed NS= not sampled

* = well inaccessible ** = free product hydrocarbon present

*** = analytical result from EPA method 8260B

ND = not detected above reporting limit, limit not available

< = less than method reporting limit



Base map: USGS 7.5' topography, Livermore, California (1961; photorevised 1980)

SCALE: 0 2,000 4,000 FEET



I:\BNC\103\FIGURES\SITELOC.DSF 4/22/99

Conor Pacific



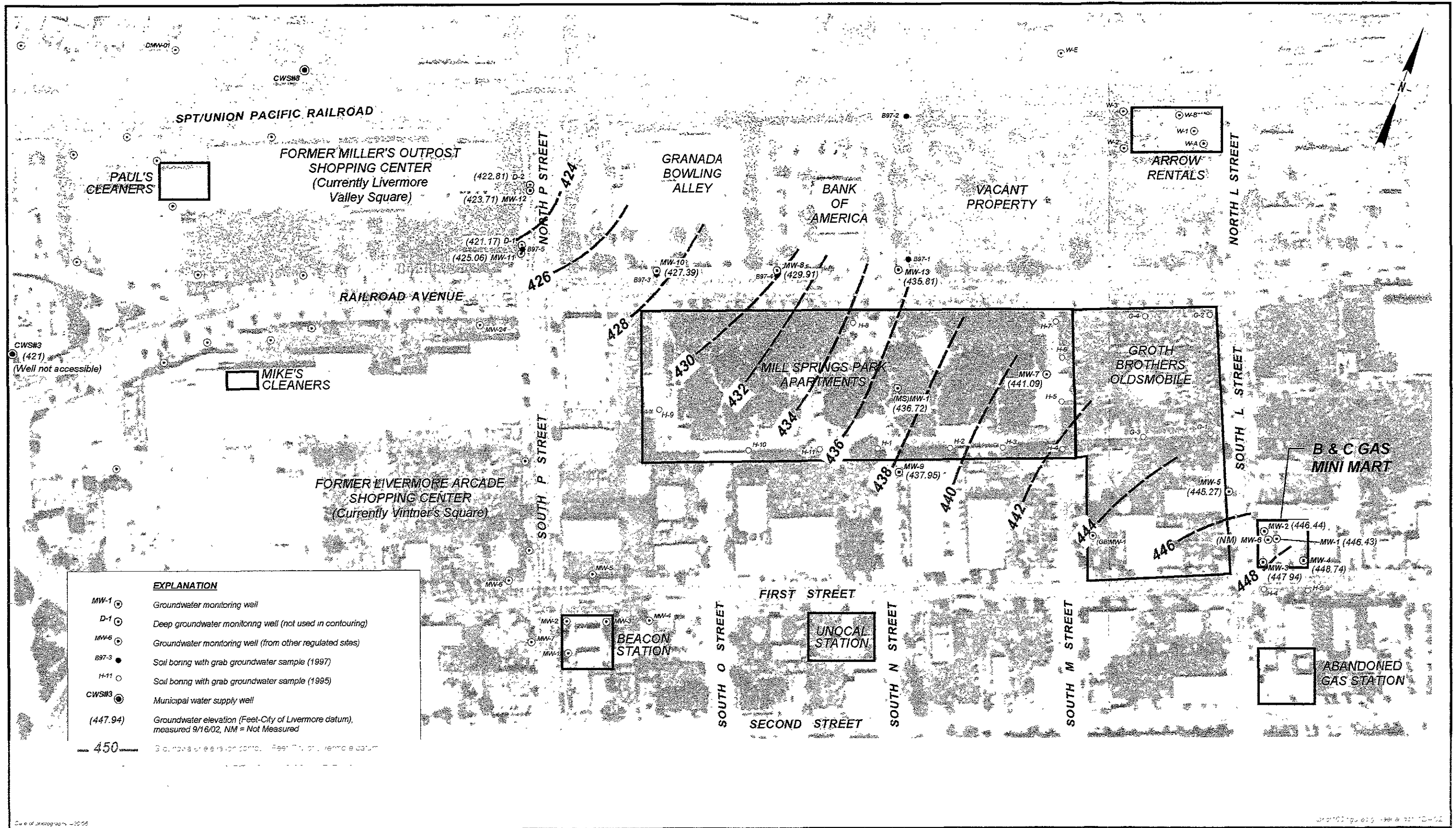
GROUNDWATER MONITORING
B & C GAS MINI MART
LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE

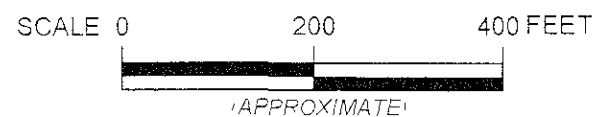
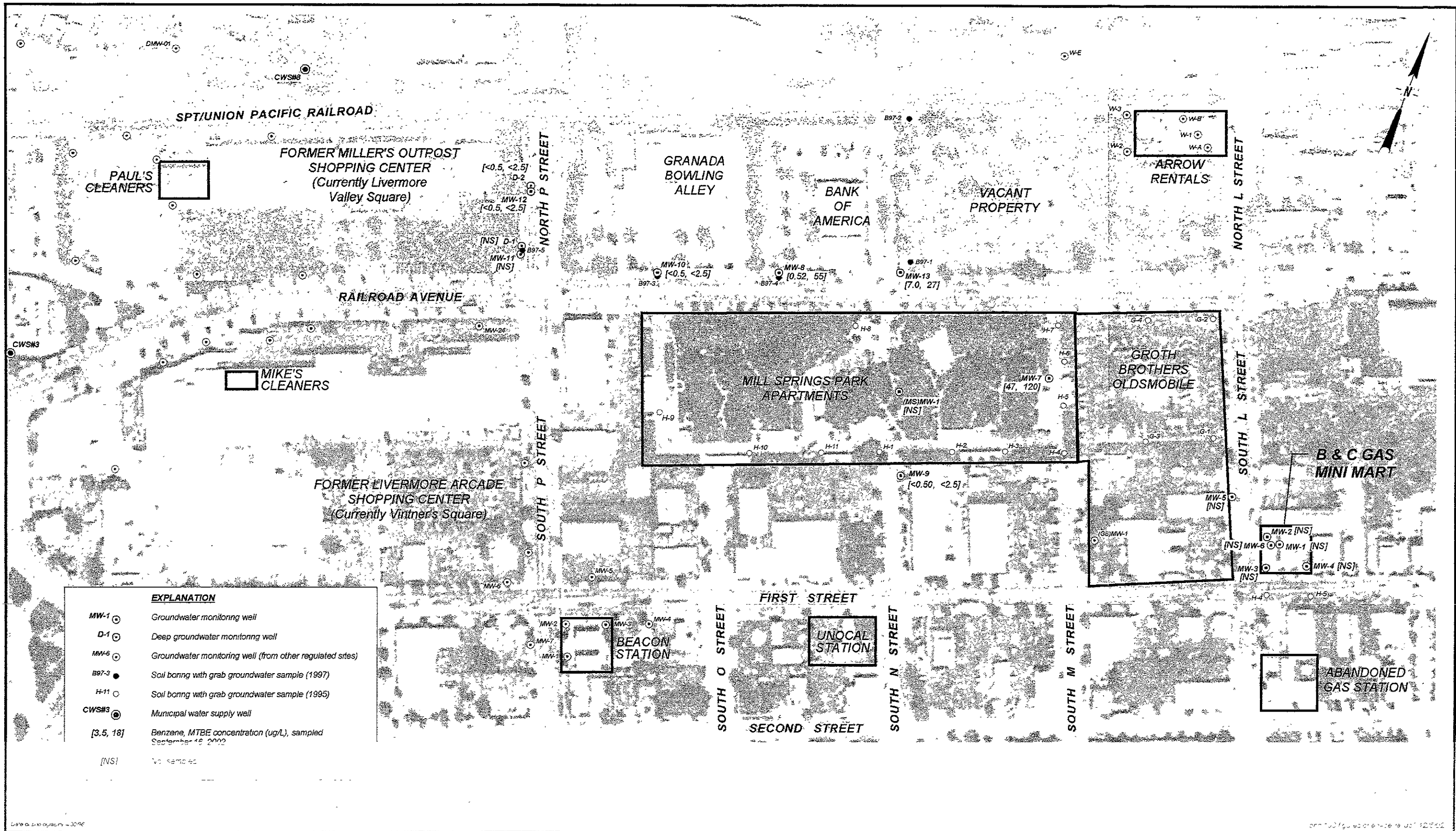
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PROJECT NO.
BNC103



GROUNDWATER MONITORING
B & C GAS MINI MART
LIVERMORE CALIFORNIA
WELL LOCATIONS AND GROUNDWATER CONTOURS (SEPTEMBER 2002)

FIGURE
2
PROJECT NO
BNC103



GROUNDWATER MONITORING
B & C GAS MINI MART
LIVERMORE CALIFORNIA

GROUNDWATER CHEMISTRY (SEPTEMBER 2002)

FIGURE
3

PROJECT NC
BNC103



LOCATION: B+C GAS MINI MART
 PROJECT NO: BN003
 CLIENT: B+C GAS MINI MART
 SAMPLE TYPE: Groundwater Surface Water
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

SAMPLE ID: MW-7
 SAMPLED BY: C. Min
 REGULATORY AGENCY: ACEHS
 Leachate Treatment System Other

Well Total Depth (ft): 49.1 Volume in Casing (gal): 2.08
 Depth to Water (ft): 36.90 Calculated Purge (volumes / gal.): 10 2.08
 Height of Water Column (ft): 12.20 Actual Pre-Sampling Purge (gal): 3.0

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: PLUMBED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
1130	1.0	20.9	570	7.18	LT. BROWN	MOD HIGH		STRONG ODOUR
1134	2.0	20.3	568	7.22	↓	↓		↓
1137	3.0	20.2	568	7.23	↓	↓		MODERATE

Purge Date: 9/17/02

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1145	20.8	567	7.24	4.70	LT. BROWN / GREY	7999	
Sheen: <u>NONE</u>		Odor: <u>MODERATE</u>		Sample Date: <u>9/17/02</u>			

Field Measurement Devices: Horiba 44 Omega QuickCheck D.O. Test Kit

REMARKS: PURGED ONE CASING VOLUME ONLY BEFORE SAMPLING.

SIGNATURE: Chuan Min DATE: 9/17/02



LOCATION: B+C MINI MART SAMPLE ID: MW-9
 PROJECT NO: BNC103 SAMPLED BY: C. Min
 CLIENT: B+C GAS MINI MART REGULATORY AGENCY: ACEHS
 SAMPLE TYPE: Groundwater Surface Water Leachate Treatment System Other
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 44.0 Volume in Casing (gal): 0.84
 Depth to Water (ft): 39.1 Calculated Purge (volumes / gal.): 0.5 0.84
 Height of Water Column (ft): 4.89 Actual Pre-Sampling Purge (gal): 1.5

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: DRUM
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
1056	0.5	20.3	541	7.03	lt. brown	VERY HIGH		
1058	1.0	20.1	550	7.19	↓	↓		
1102	1.5	20.1	554	7.22	↓	↓		

Purge Date: 9/17/02

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer 43'
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1109	20.5	552	7.27	5.74	lt. brown	767	

Sheen: NONE Odor: NONE Sample Date: 9/17/02

Field Measurement Devices: Horiba HY Omega QuickCheck D.O. Test Kit

REMARKS: PURGED ONE CASING VOLUME ONLY BEFORE SAMPLING.

CALIBRATION 9/17/02 AT 1037. DO: AUTO; PH: 7.02; IO: 0.03; COND: 0, 2060; TURBID: 0; TEMP: 19°C.

SIGNATURE: Shvell Min DATE: 9/17/02



LOCATION: B+C GAS MINI MART
 PROJECT NO: BNC 103
 CLIENT: B+C GAS MINI MART
 SAMPLE TYPE: Groundwater Surface Water
 CASING DIAMETER (OD-inches): 3/4 1 2 4 4.5 6 8 Other
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

SAMPLE ID: MW-12
 SAMPLED BY: C. Min
 REGULATORY AGENCY: ACEHS
 Leachate Treatment System Other

Well Total Depth (ft): 43.4 Volume in Casing (gal): 1.5
 Depth to Water (ft): 34.63 Calculated Purge (volumes / gal.): 0.5 1.5
 Height of Water Column (ft): 8.77 Actual Pre-Sampling Purge (gal): 1.5

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer (2) a
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other
 Purge Water Containment: RETURNED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- FB- Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1604</u>	<u>0.5</u>	<u>21.6</u>	<u>572</u>	<u>6.71</u>	<u>LT. BROWN</u>	<u>LOW</u>		
<u>1608</u>	<u>1.0</u>	<u>20.6</u>	<u>568</u>	<u>6.97</u>	<u>LT. BROWN</u>	<u>MOD</u>		
<u>1612</u>	<u>1.5</u>	<u>20.4</u>	<u>566</u>	<u>6.99</u>	<u>LT. BROWN</u>	<u>HIGH</u>		

Purge Date: 9/16/02

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer Teflon Bailer PVC Bailer Disp. Bailer 40'
 PVC Hand Pump Peristaltic Pump Centrifugal Pump Bladder Pump
 Pneumatic Displacement Pump Electric Submersible Pump Dedicated Other

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l) ①	Color (visual)	Turbidity (NTU)	Other
<u>1620</u>	<u>21.0</u>	<u>566</u>	<u>7.02</u>	<u>9.28</u>	<u>LT. BROWN</u>	<u>626</u>	
Sheen: <u>NONE</u>		Odor: <u>NONE</u>		Sample Date: <u>9/16/02</u>			

Field Measurement Devices: Horiba HH Omega QuickCheck D.O. Test Kit

REMARKS: ① DO READING HIGH.
PURGED ONE CASING VOLUME PRIOR TO SAMPLING.

SIGNATURE: Quar Min DATE: 9/16/02



LOCATION: B+C GAS MINI MART
 PROJECT NO: BNC103
 CLIENT: B+C GAS MINI MART
 SAMPLE TYPE: Groundwater Surface Water _____
 CASING DIAMETER (OD-inches): 3/4 _____ 1 _____ 2 4 _____ 4.5 _____ 6 _____ 8 _____ Other _____
 GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

SAMPLE ID: D-2
 SAMPLED BY: C. Min
 REGULATORY AGENCY: ACEHS
 Leachate _____ Treatment System _____ Other _____

Well Total Depth (ft): 111.1 Volume in Casing (gal): 13.0
 Depth to Water (ft): 34.80 Calculated Purge (volumes / gal.): 4.5 13.0
 Height of Water Column (ft): 76.30 Actual Pre-Sampling Purge (gal): 13.5

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer
 PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____
 Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____
 Purge Water Containment: DRUMMED
 Field QC Samples Collected at this Well (Equipment or Field Blank): EB- _____ FB- _____ Other _____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
<u>1644</u>	<u>4.5</u>	<u>20.4</u>	<u>584</u>	<u>7.24</u>	<u>LT. BROWN</u>	<u>MOD</u>		
<u>1652</u>	<u>9.0</u>	<u>20.0</u>	<u>582</u>	<u>7.41</u>	<u>LT. BROWN</u>	<u>LOW</u>		
<u>1705</u>	<u>13.5</u>	<u>19.9</u>	<u>581</u>	<u>7.41</u>	<u>LT. BROWN</u>	<u>MOD</u>		

Purge Date: 9/16/02

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer 108'
 PVC Hand Pump _____ Peristaltic Pump _____ Centrifugal Pump _____ Bladder Pump _____
 Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Time (2400 Hr)	Temp. (°C)	Electical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
<u>1711</u>	<u>19.9</u>	<u>579</u>	<u>7.40</u>	<u>10.63</u>	<u>LT. BROWN</u>	<u>7999</u>	

Sheen: NONE Odor: NONE Sample Date: 9/16/02

Field Measurement Devices: Horiba H4 Omega _____ QuickCheck _____ D.O. Test Kit _____

REMARKS:

DO READING HIGH.
PURGED ONE CASING VOLUME PRIOR TO SAMPLING.

SIGNATURE: Charles Min DATE: 9/16/02



3 October, 2002

Katrin Schliwen
Conor Pacific / EFW
2580 Wyandotte St., Suite G
Mountain View, CA 94043

RE: B&C Gas Mini Mart
Sequoia Work Order: P209388

Enclosed are the results of analyses for samples received by the laboratory on 09/19/02 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michelle M. Wiita
Project Manager

CA ELAP Certificate #2374



Conor Pacific / EFW
2580 Wyandotte St., Suite G
Mountain View CA, 94043

Project: B&C Gas Mini Mart
Project Number: BNC103
Project Manager: Katrin Schliewen

P209388
Reported:
10/03/02 11:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	P209388-01	Water	09/17/02 11:45	09/19/02 16:30
MW-8	P209388-02	Water	09/17/02 13:07	09/19/02 16:30
MW-9	P209388-03	Water	09/17/02 11:09	09/19/02 16:30
MW-10	P209388-04	Water	09/17/02 13:44	09/19/02 16:30
MW-12	P209388-05	Water	09/16/02 16:20	09/19/02 16:30
MW-13	P209388-06	Water	09/17/02 12:24	09/19/02 16:30
D-2	P209388-07	Water	09/16/02 17:11	09/19/02 16:30



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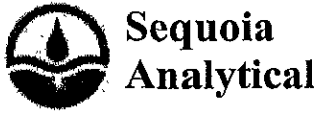
Conor Pacific / EFW
 2580 Wyandotte St., Suite G
 Mountain View CA, 94043

Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P209388
 Reported:
 10/03/02 11:55

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (P209388-01) Water Sampled: 09/17/02 11:45 Received: 09/19/02 16:30									
Gasoline (C6-C12)	4500	500	ug/l	10	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	47	5.0	"	"	"	"	"	"	QR-04
Toluene	6.8	5.0	"	"	"	"	"	"	QR-04
Ethylbenzene	99	5.0	"	"	"	"	"	"	
Xylenes (total)	19	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	120	25	"	"	"	"	"	"	QR-04
Surrogate: a,a,a-Trifluorotoluene		101 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	65-135		"	"	"	"	
MW-8 (P209388-02) Water Sampled: 09/17/02 13:07 Received: 09/19/02 16:30									
Gasoline (C6-C12)	ND	50	ug/l	1	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	0.52	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	55	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	65-135		"	"	"	"	
MW-9 (P209388-03) Water Sampled: 09/17/02 11:09 Received: 09/19/02 16:30									
Gasoline (C6-C12)	ND	50	ug/l	1	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	65-135		"	"	"	"	



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Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schiewen

P209388
 Reported:
 10/03/02 11:55

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (P209388-04) Water Sampled: 09/17/02 13:44 Received: 09/19/02 16:30									
Gasoline (C6-C12)	ND	50	ug/l	1	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	65-135		"	"	"	"	
MW-12 (P209388-05) Water Sampled: 09/16/02 16:20 Received: 09/19/02 16:30									
Gasoline (C6-C12)	ND	50	ug/l	1	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	65-135		"	"	"	"	
MW-13 (P209388-06) Water Sampled: 09/17/02 12:24 Received: 09/19/02 16:30									
Gasoline (C6-C12)	150	50	ug/l	1	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	7.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	5.5	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	27	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	65-135		"	"	"	"	



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Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P209388
 Reported:
 10/03/02 11:55

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
D-2 (P209388-07) Water Sampled: 09/16/02 17:11 Received: 09/19/02 16:30									
Gasoline (C6-C12)	ND	50	ug/l	1	2090593	09/24/02	09/24/02	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		65-135	"	"	"	"	



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P209388
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 10/03/02 11:55

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090593 - EPA 5030, waters

Blank (2090593-BLK1)

Prepared & Analyzed: 09/24/02

Gasoline (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	289		"	300		96	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	311		"	300		104	65-135			

Laboratory Control Sample (2090593-BS1)

Prepared & Analyzed: 09/24/02

Gasoline (C6-C12)	2760	50	ug/l	2750		100	65-135			
Benzene	43.7	0.50	"	33.5		130	65-135			
Toluene	217	0.50	"	202		107	65-135			
Ethylbenzene	46.0	0.50	"	47.5		97	65-135			
Xylenes (total)	230	0.50	"	240		96	65-135			
Methyl tert-butyl ether	63.6	2.5	"	54.5		117	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	346		"	300		115	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	339		"	300		113	65-135			

Matrix Spike (2090593-MS1)

Source: P209389-01

Prepared & Analyzed: 09/24/02

Gasoline (C6-C12)	3600	50	ug/l	2750	920	97	65-135			
Benzene	40.9	0.50	"	33.5	1.6	117	65-135			
Toluene	200	0.50	"	202	1.9	98	65-135			
Ethylbenzene	42.5	0.50	"	47.5	0.56	88	65-135			
Xylenes (total)	207	0.50	"	240	0.73	86	65-135			
Methyl tert-butyl ether	72.9	2.5	"	54.5	19	99	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	316		"	300		105	65-135			
<i>Surrogate: 4-Bromofluorobenzene</i>	336		"	300		112	65-135			



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Project: B&C Gas Mini Mart
 Project Number: BNC103
 Project Manager: Katrin Schliewen

P209388
 Reported:
 10/03/02 11:55

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015B/8021B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090593 - EPA 5030, waters

Matrix Spike Dup (2090593-MSD1)

Source: P209389-01

Prepared & Analyzed: 09/24/02

Gasoline (C6-C12)	3600	50	ug/l	2750	920	97	65-135	0	20	
Benzene	39.1	0.50	"	33.5	1.6	112	65-135	5	20	
Toluene	196	0.50	"	202	1.9	96	65-135	2	20	
Ethylbenzene	41.1	0.50	"	47.5	0.56	85	65-135	3	20	
Xylenes (total)	205	0.50	"	240	0.73	85	65-135	1	20	
Methyl tert-butyl ether	81.3	2.5	"	54.5	19	114	65-135	11	20	
<hr/>										
Surrogate: a,a,a-Trifluorotoluene	304		"	300		101	65-135			
Surrogate: 4-Bromofluorobenzene	349		"	300		116	65-135			



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P209388
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10/03/02 11:55

Notes and Definitions

QR-04 Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Date : 24-SEP-2002 08:08

Client ID: VSTD1000GC

Lab Sample ID: VSTD1000GC

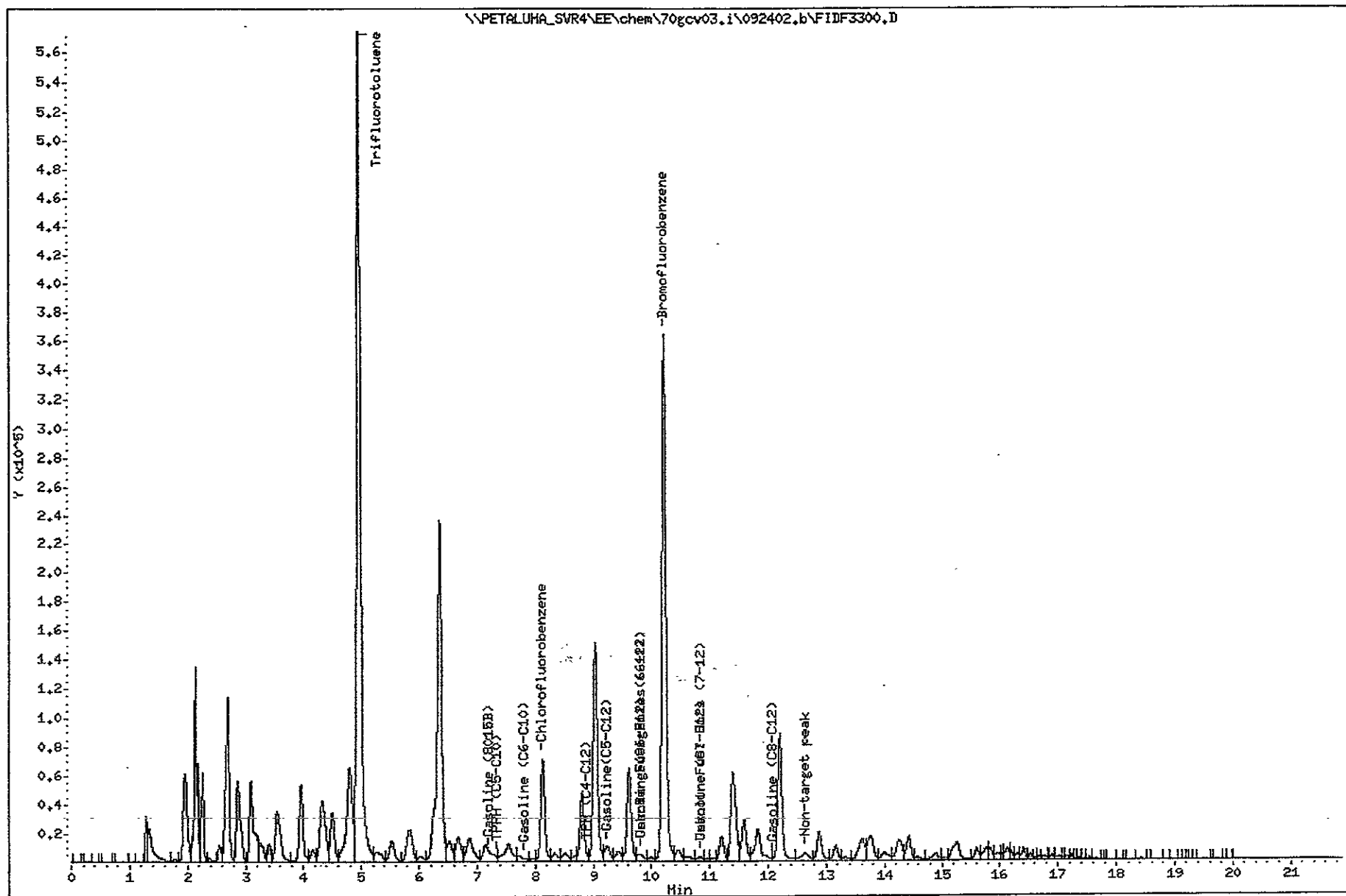
Purge Volume: 5.0

Column phase: HP-1

Instrument: 70gcv03.i

Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 08:37

Client ID: VSTD100BC

Lab Sample ID: VSTD100BC

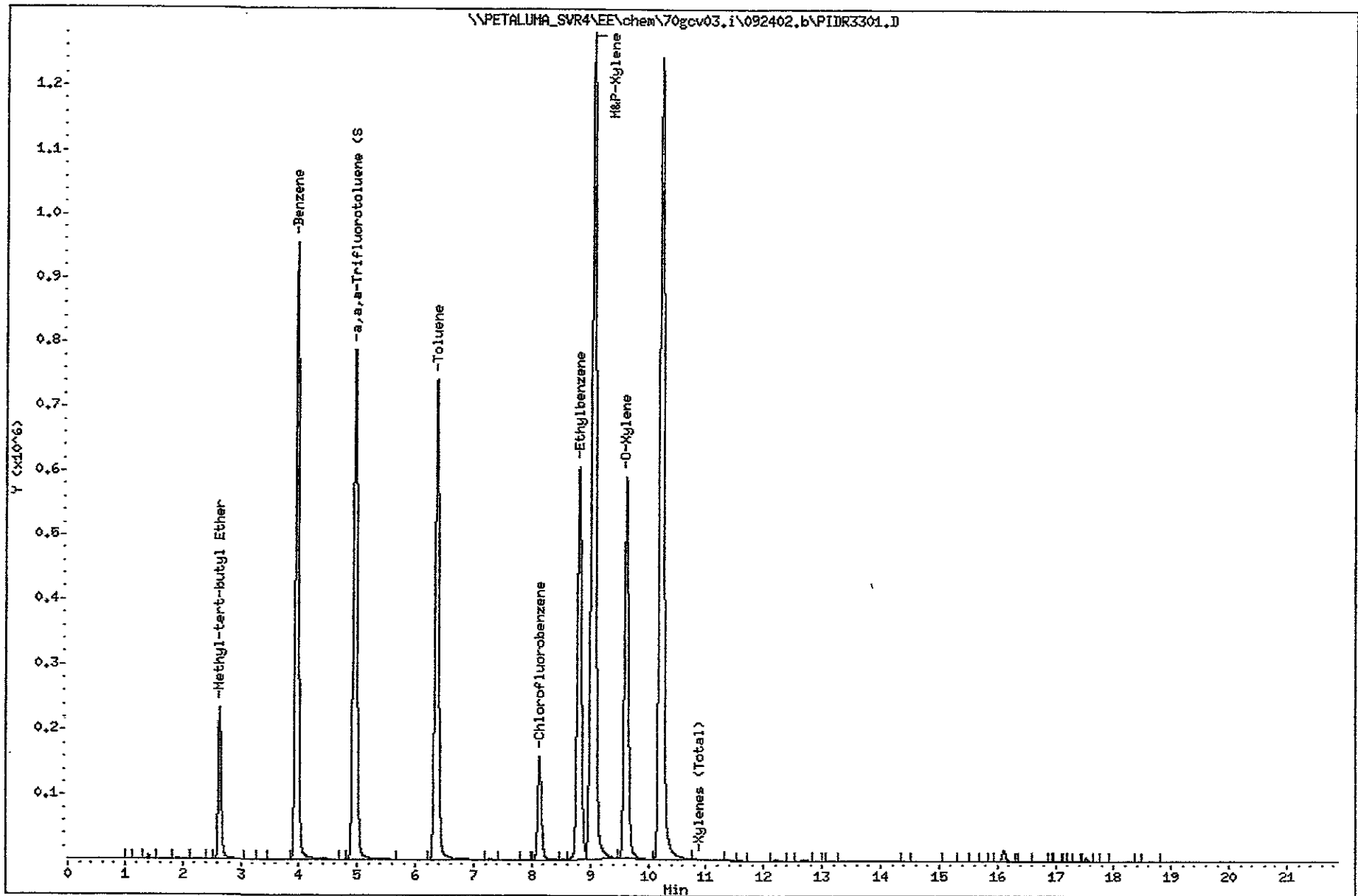
Purge Volume: 5.0

Column phase: DB-624

Instrument: 70gov03.i

Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 09:18

Client ID: BLK

Lab Sample ID: 2090593-BLK1

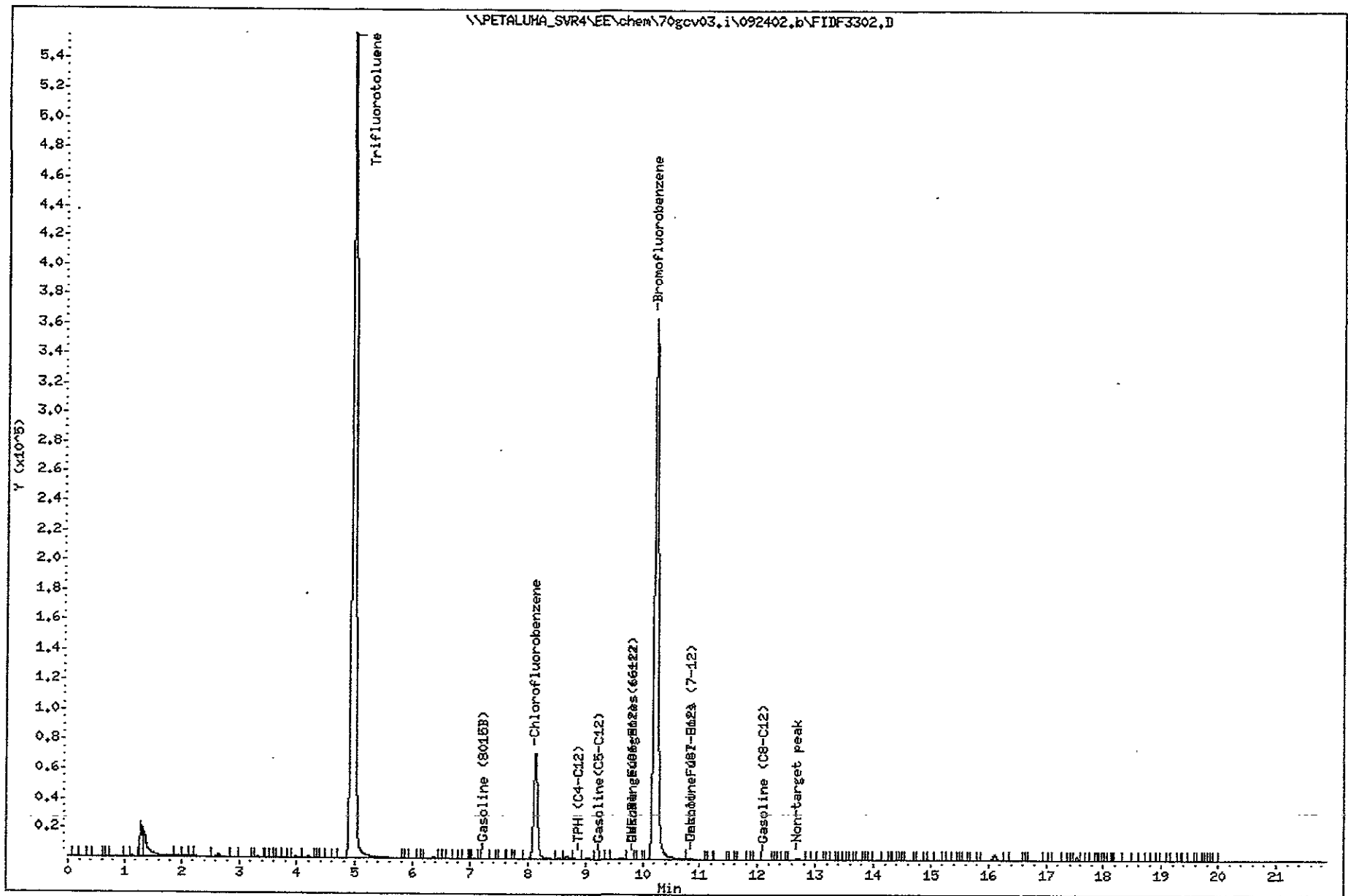
Purge Volume: 5.0

Column phase: HP-1

Instrument: 70gcv03.i

Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 09:18

Client ID: BLK

Lab Sample ID: 2090593-BLK1

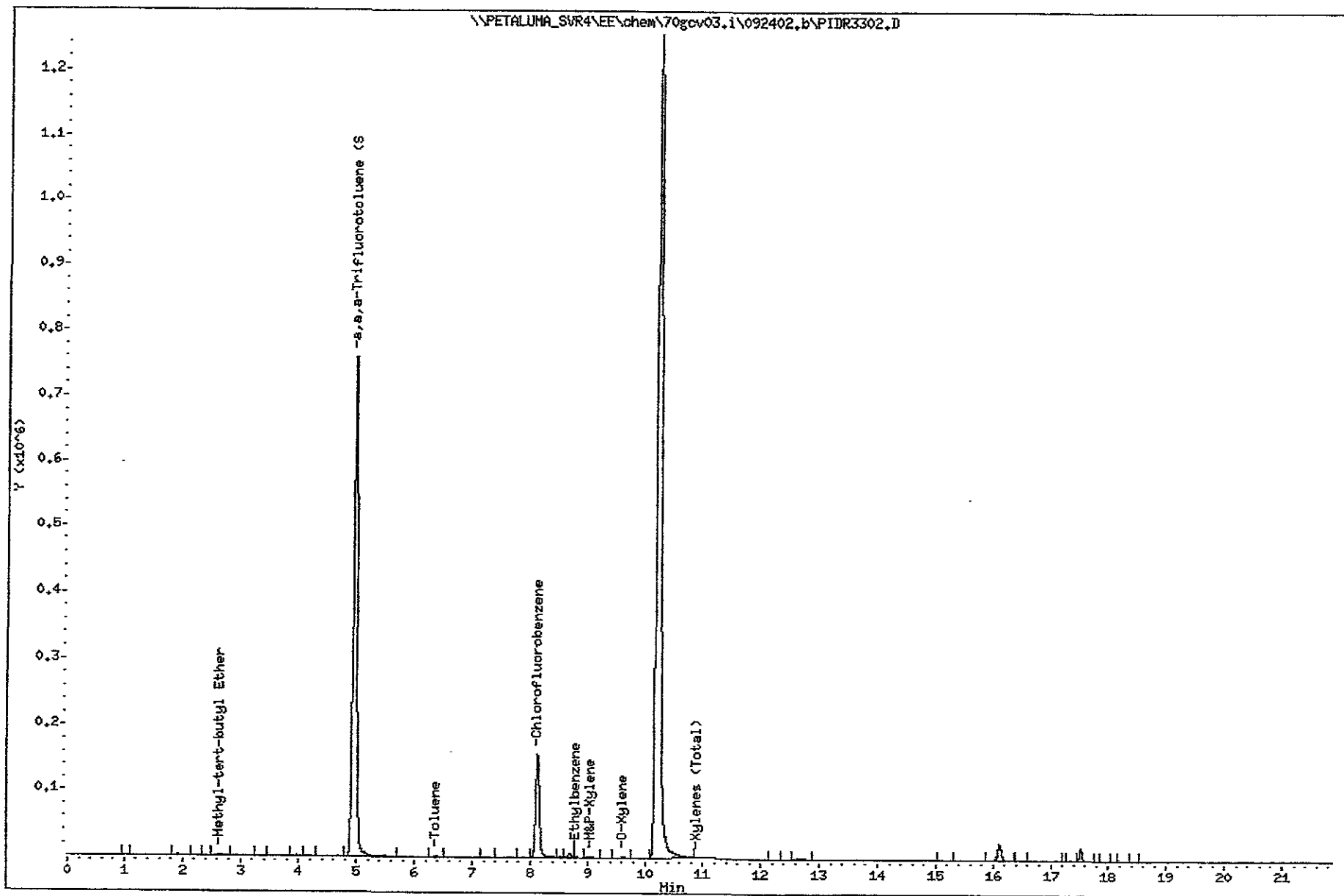
Purge Volume: 5.0

Column phase: DB-624

Instrument: 70gcv03.i

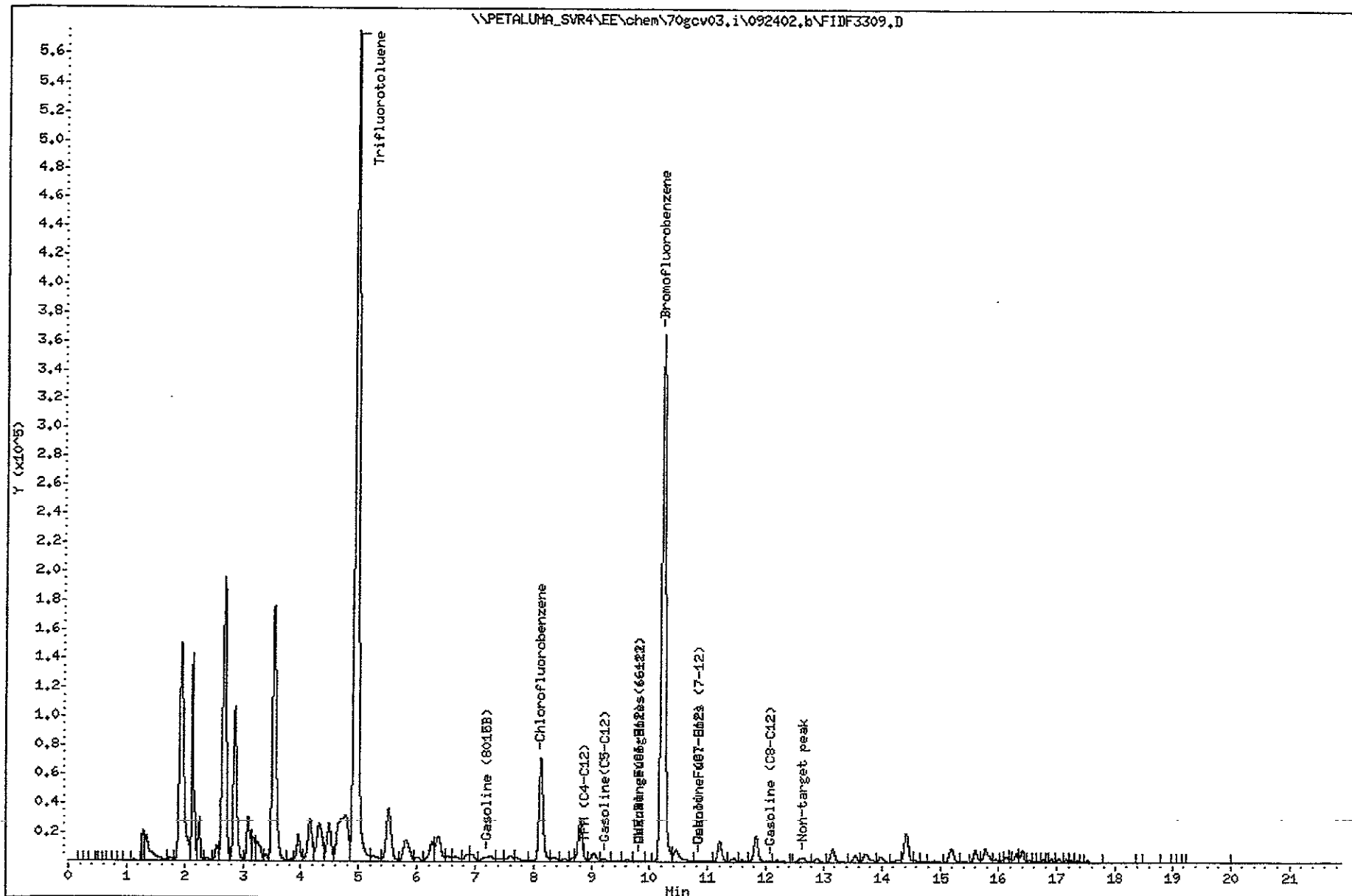
Operator: CWC

Column diameter: 0.53



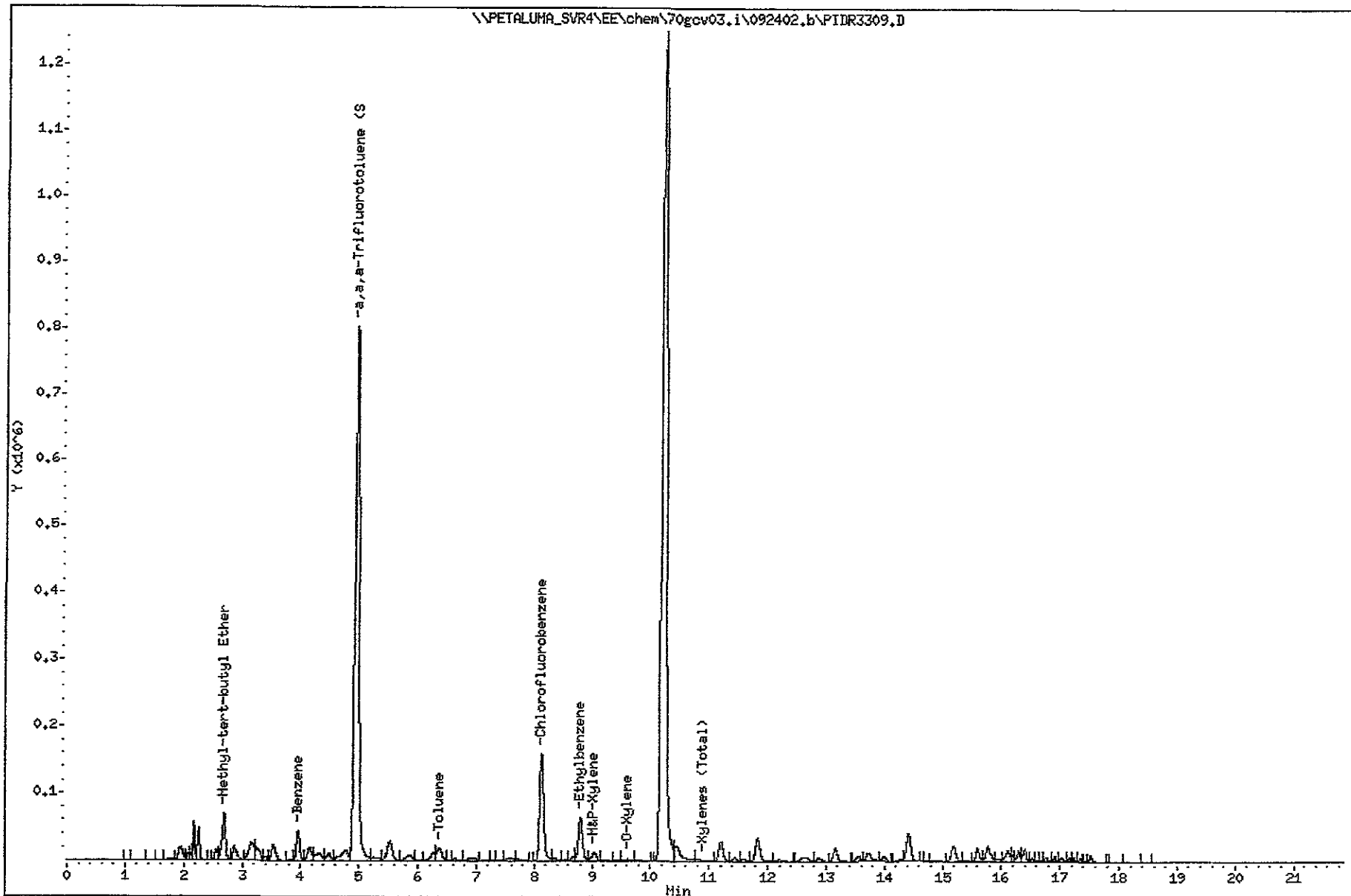
Date : 24-SEP-2002 12:50
Client ID: MW-7
Lab Sample ID: P209388-01
Purge Volume: 5.0
Column phase: HP-1

Instrument: 70gcv03.i
Operator: CNC
Column diameter: 0.53



Date : 24-SEP-2002 12:50
Client ID: HW-7
Lab Sample ID: P209388-01
Purge Volume: 5.0
Column phase: DB-624

Instrument: 70gov03.i
Operator: CMC
Column diameter: 0.53



Date : 24-SEP-2002 13:18

Client ID: MW-8

Lab Sample ID: P209388-02

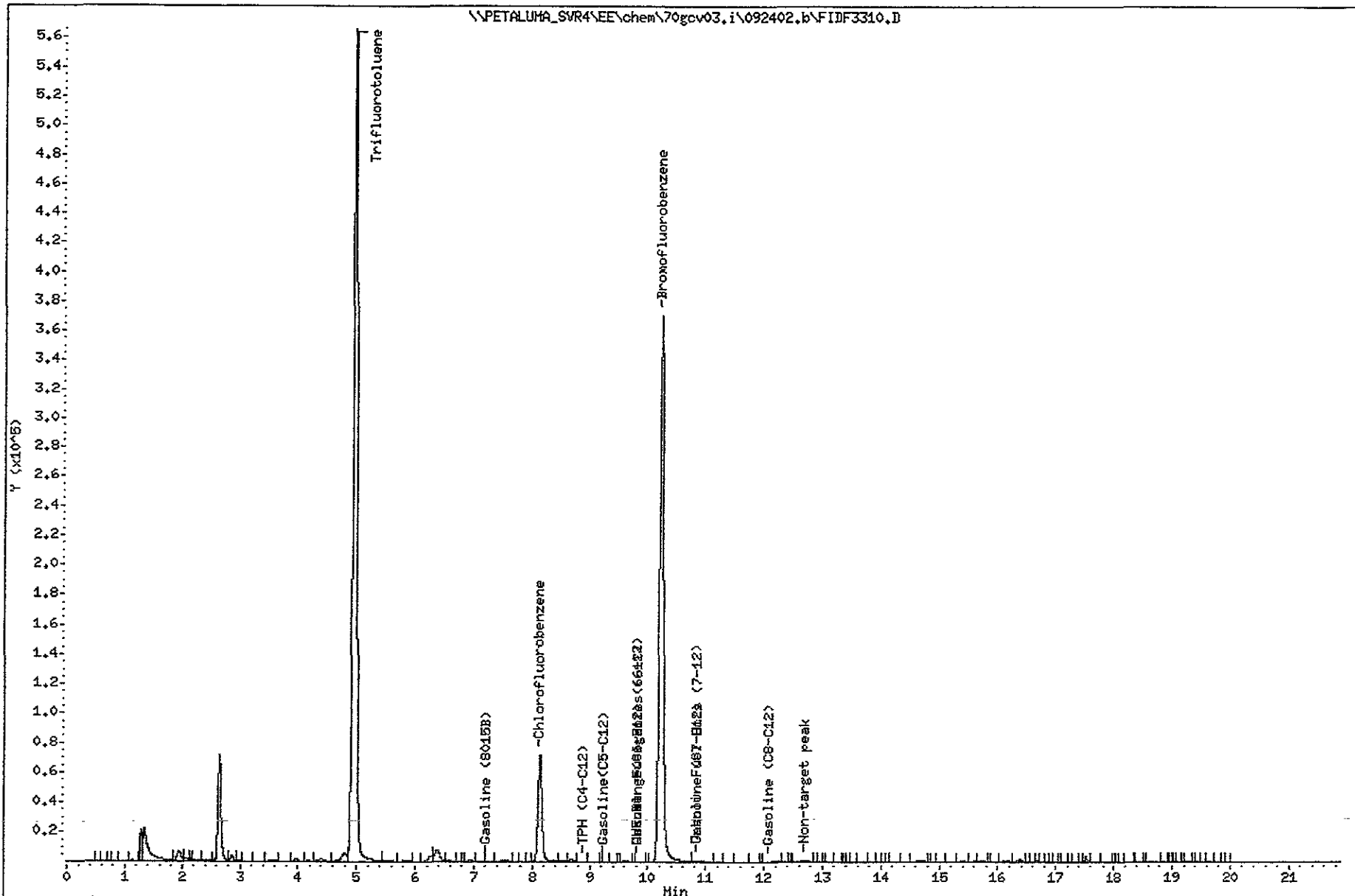
Purge Volume: 5.0

Column phase: HP-1

Instrument: 70gcv03.i

Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 16:20

Client ID: MW-13

Lab Sample ID: P209388-06

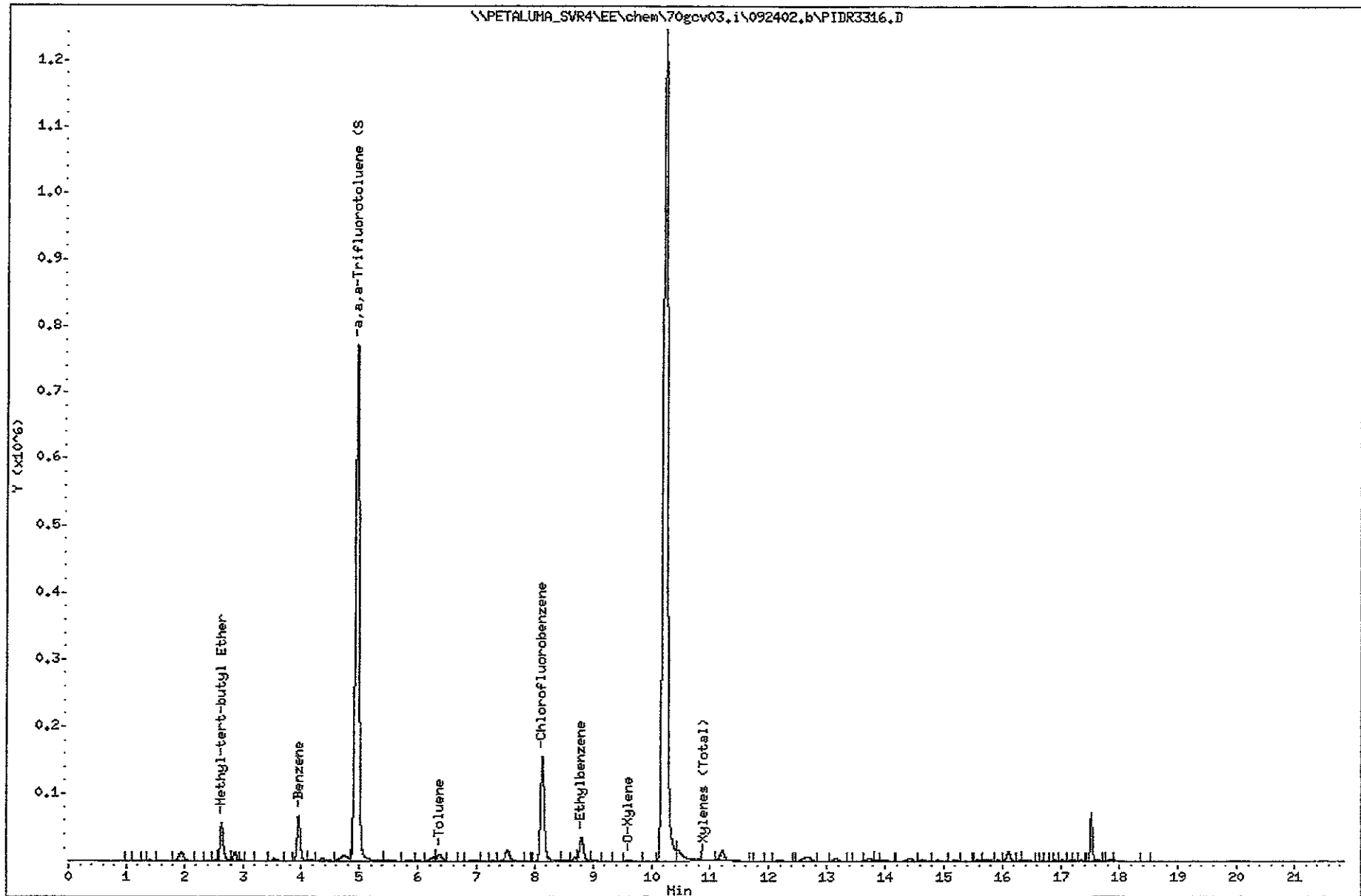
Purge Volume: 5.0

Column phase: DB-624

Instrument: 70gcv03.i

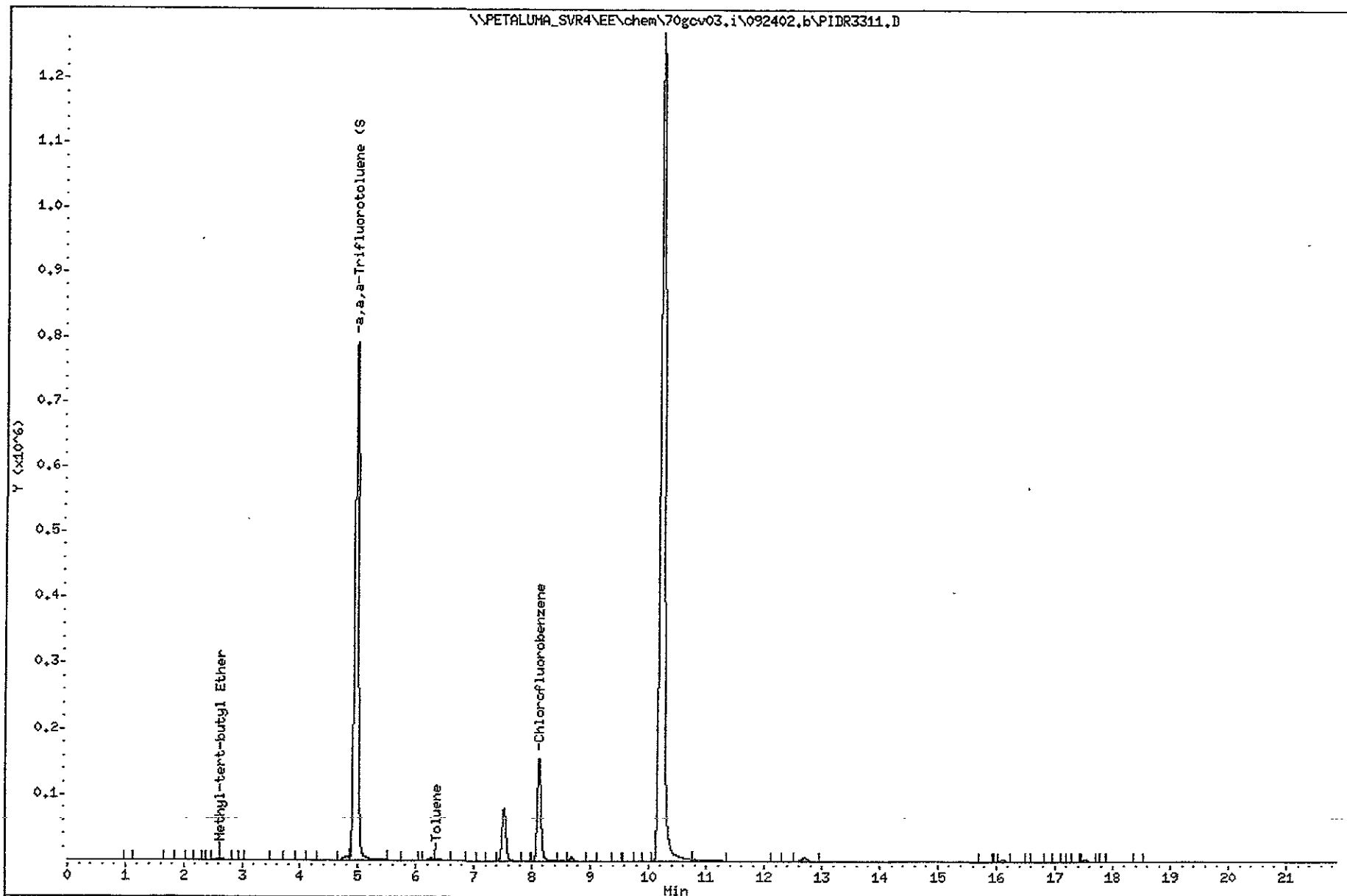
Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 13:47
Client ID: MW-9
Lab Sample ID: P209388-03
Purge Volume: 5.0
Column phase: DB-624

Instrument: 70gcv03.i
Operator: CMC
Column diameter: 0.53



Date : 24-SEP-2002 16:48

Client ID: I-2

Lab Sample ID: P209388-07

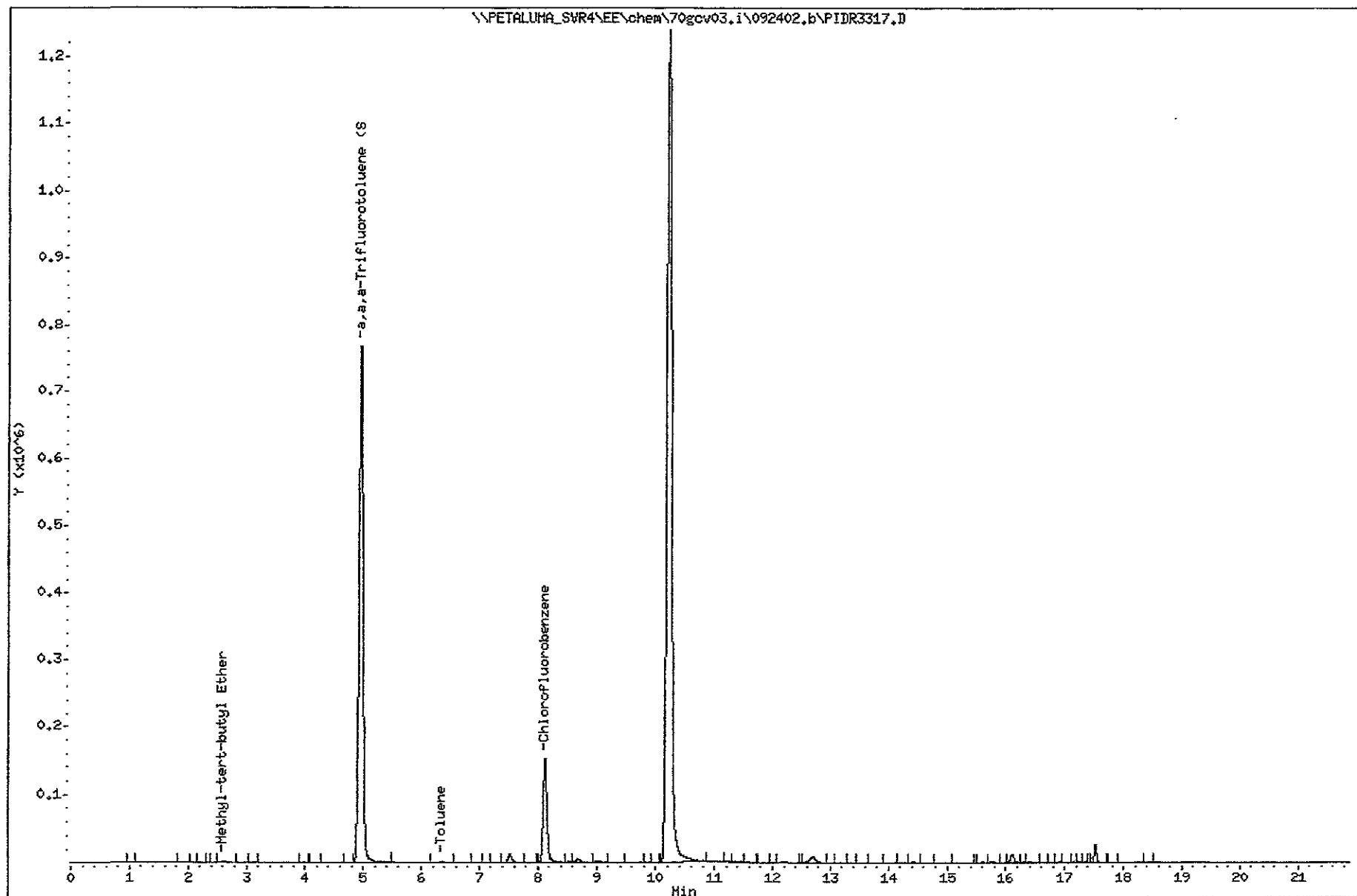
Purge Volume: 5.0

Column phase: DB-624

Instrument: 70gc03.i

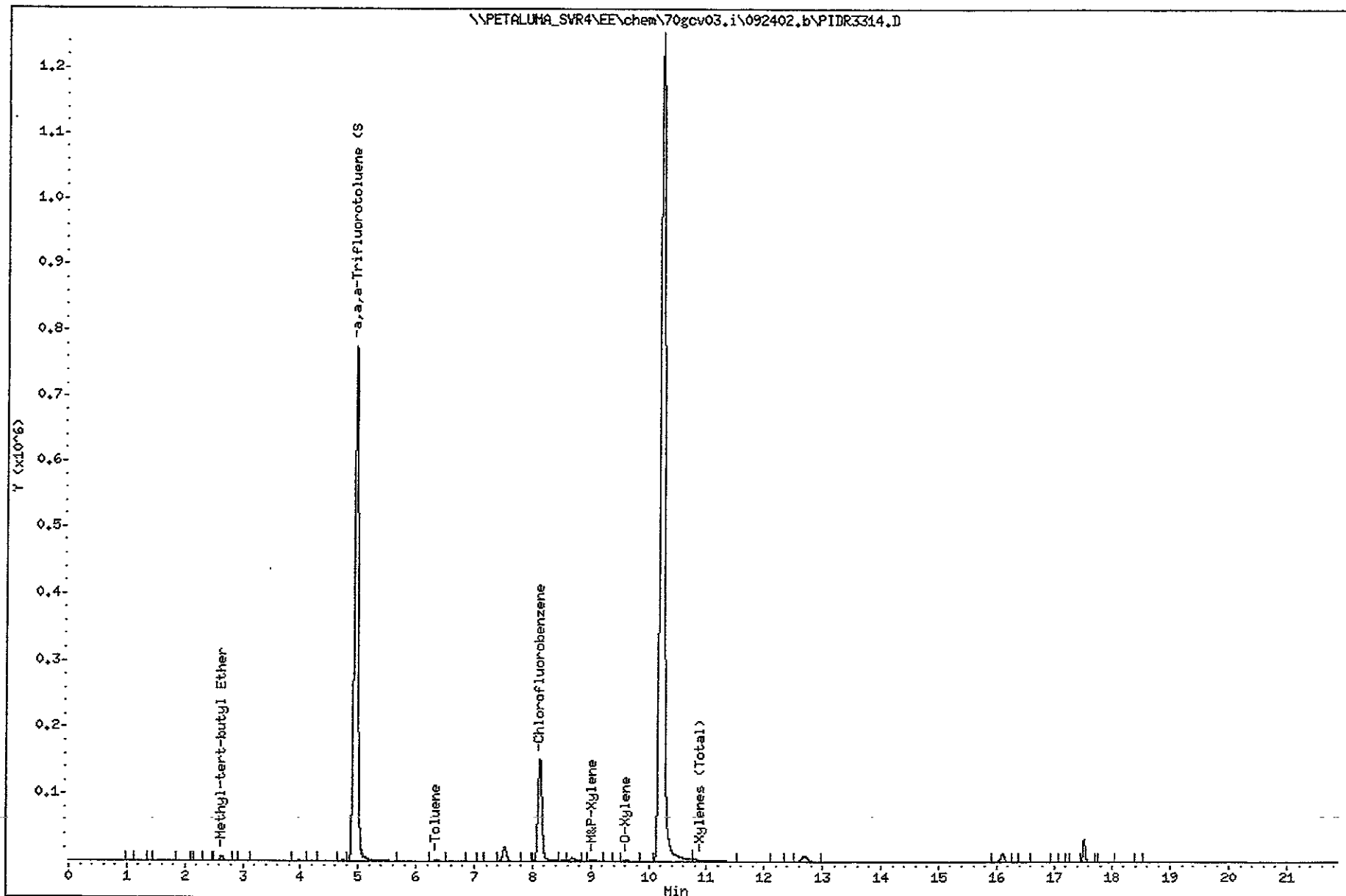
Operator: CNC

Column diameter: 0.53



Date : 24-SEP-2002 15:23
Client ID: MW-10
Lab Sample ID: P209388-04
Purge Volume: 5.0
Column phase: DB-624

Instrument: 70gcv03.i
Operator: CNC
Column diameter: 0.53



Date : 24-SEP-2002 15:51

Client ID: MW-12

Lab Sample ID: P209388-05

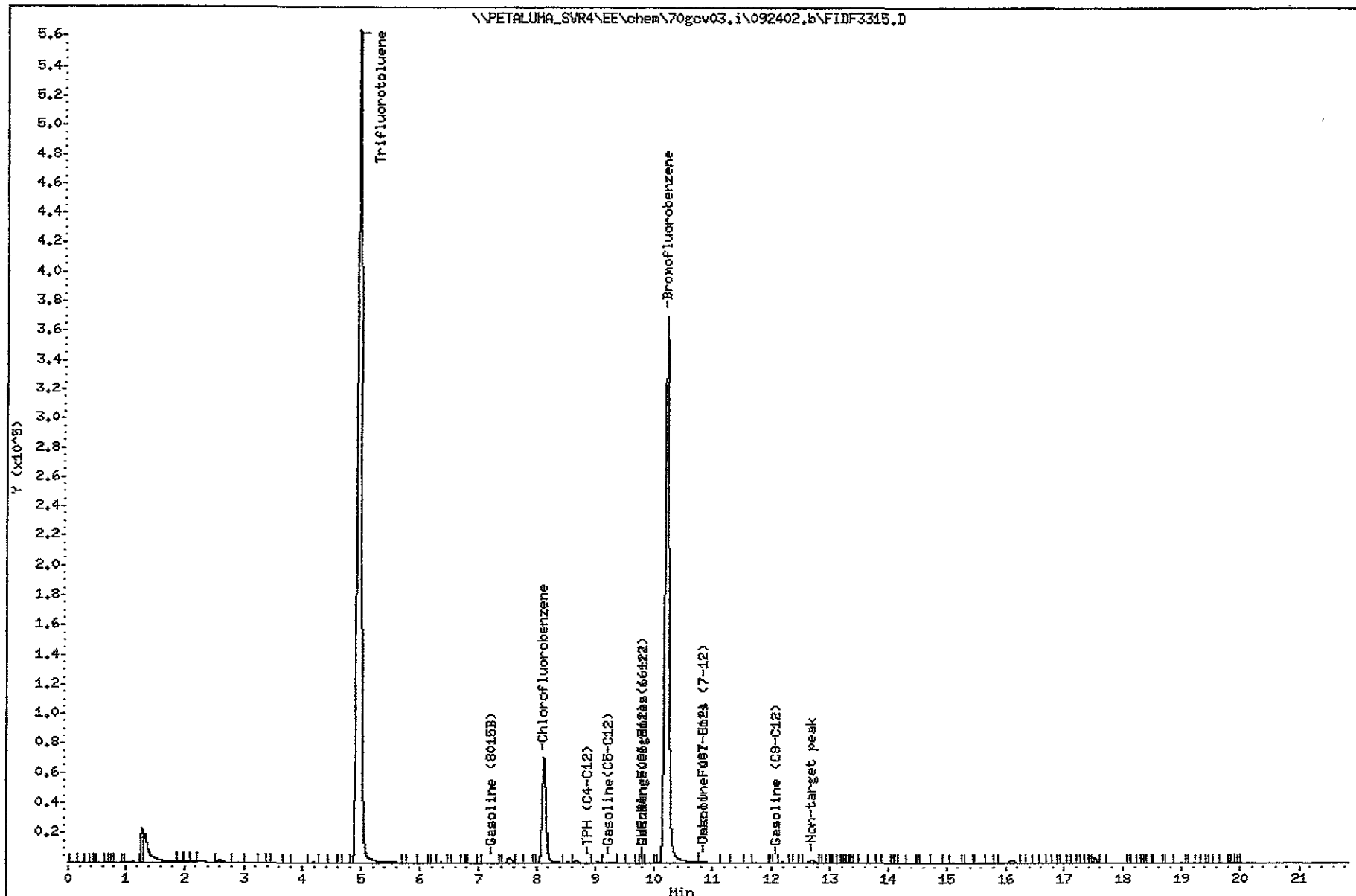
Purge Volume: 5.0

Column phase: HP-1

Instrument: 70gcv03.i

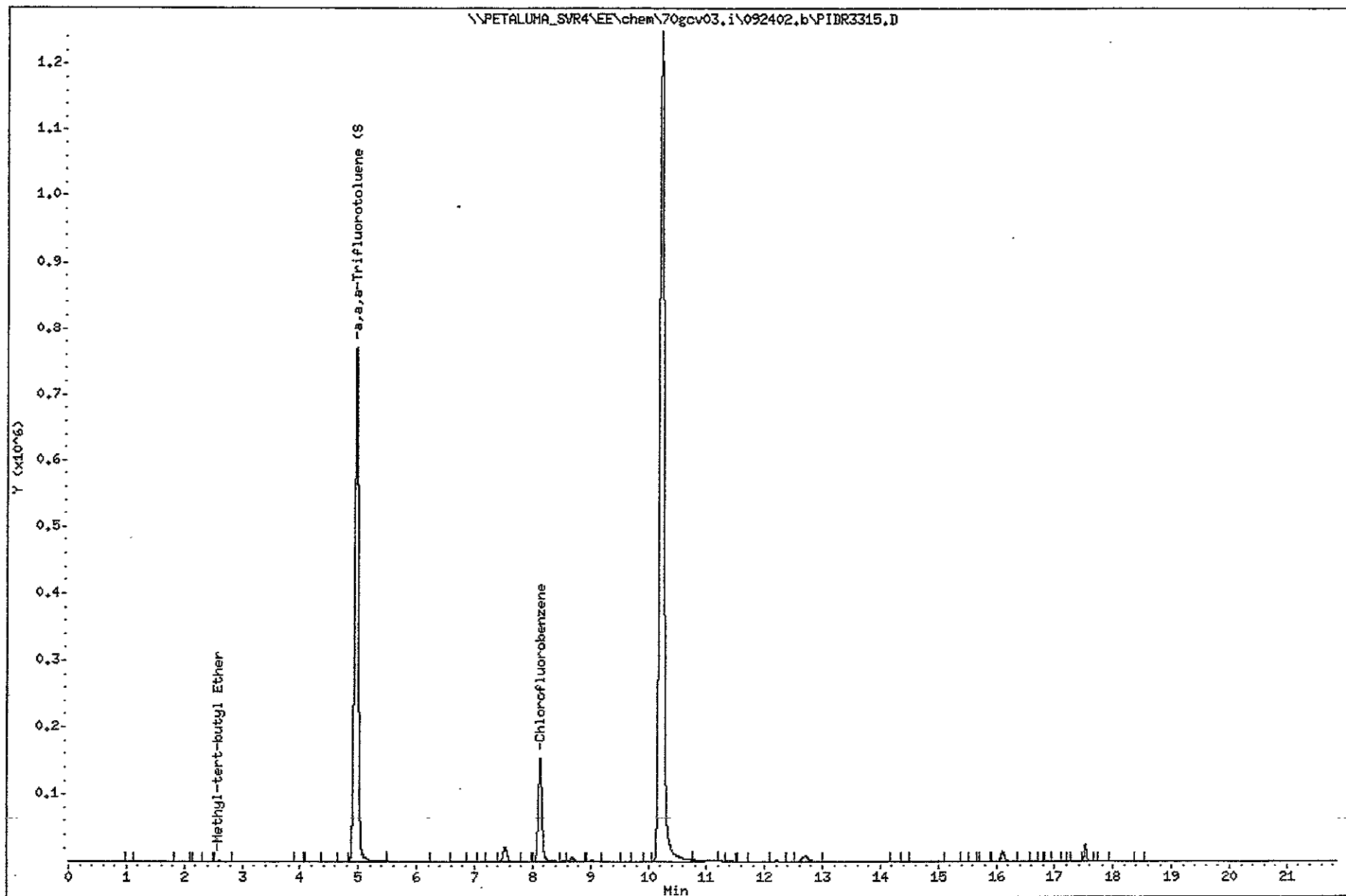
Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 15:51
Client ID: MW-12
Lab Sample ID: P209388-05
Purge Volume: 5.0
Column phase: DB-624

Instrument: 70gcv03.i
Operator: CMC
Column diameter: 0.53



Date : 24-SEP-2002 16:20

Client ID: MW-13

Lab Sample ID: P209388-06

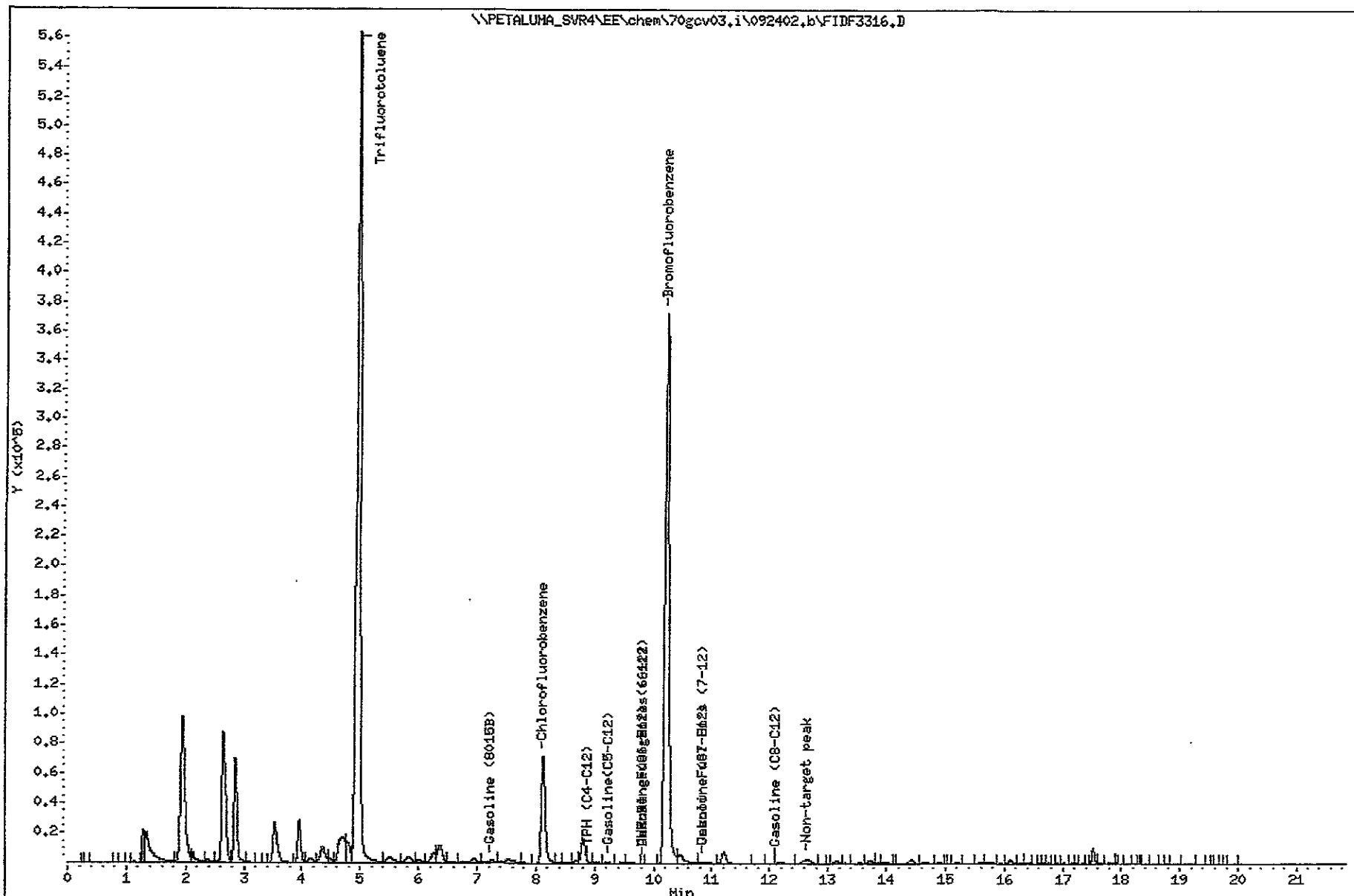
Purge Volume: 5.0

Column phase: HP-1

Instrument: 70gcv03.i

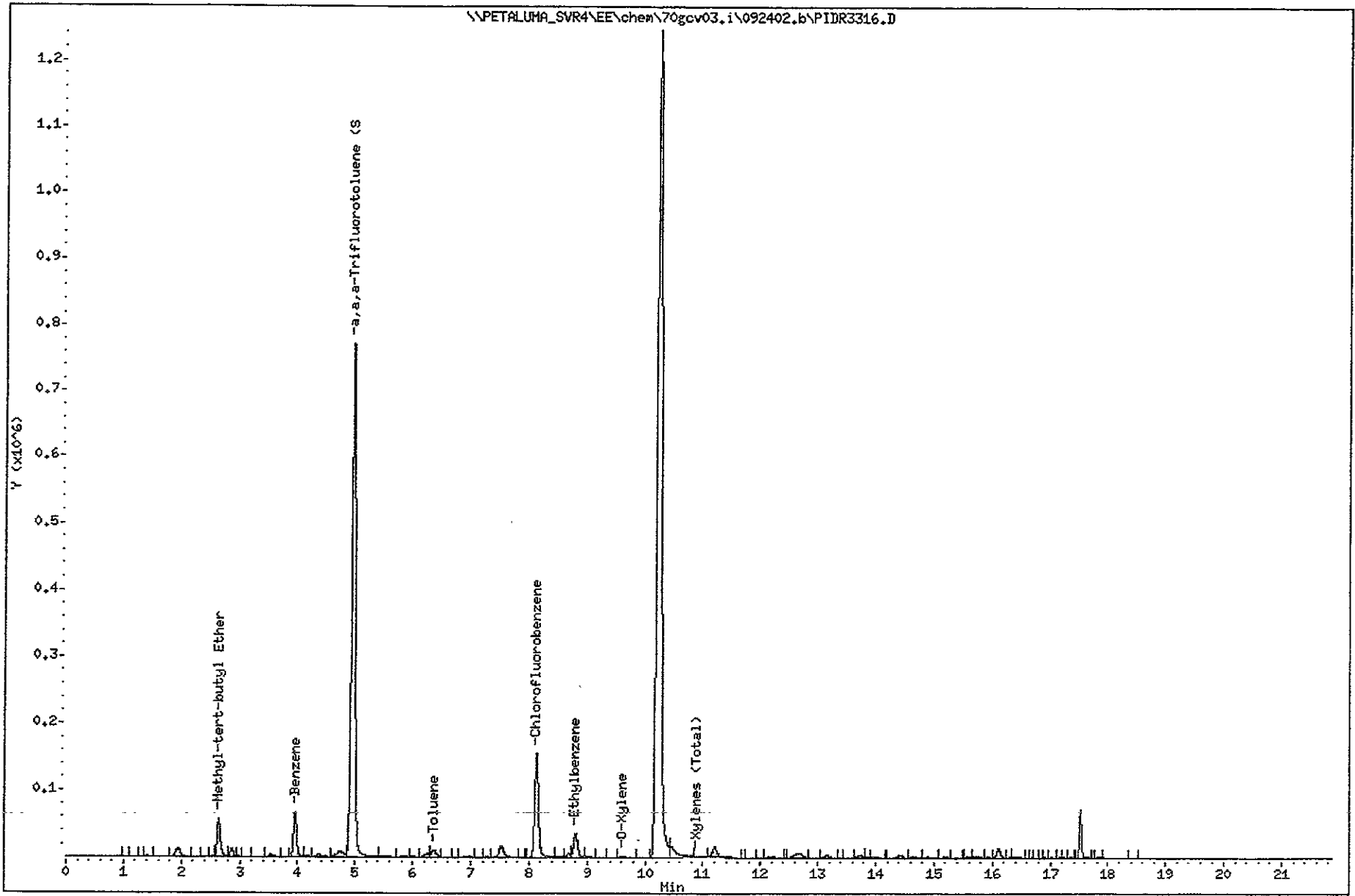
Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 16:20
Client ID: MW-13
Lab Sample ID: P209388-06
Purge Volume: 5.0
Column phase: DB-624

Instrument: 70gcv03.i
Operator: CMC
Column diameter: 0.53



Date : 24-SEP-2002 16:48

Client ID: D-2

Lab Sample ID: P209388-07

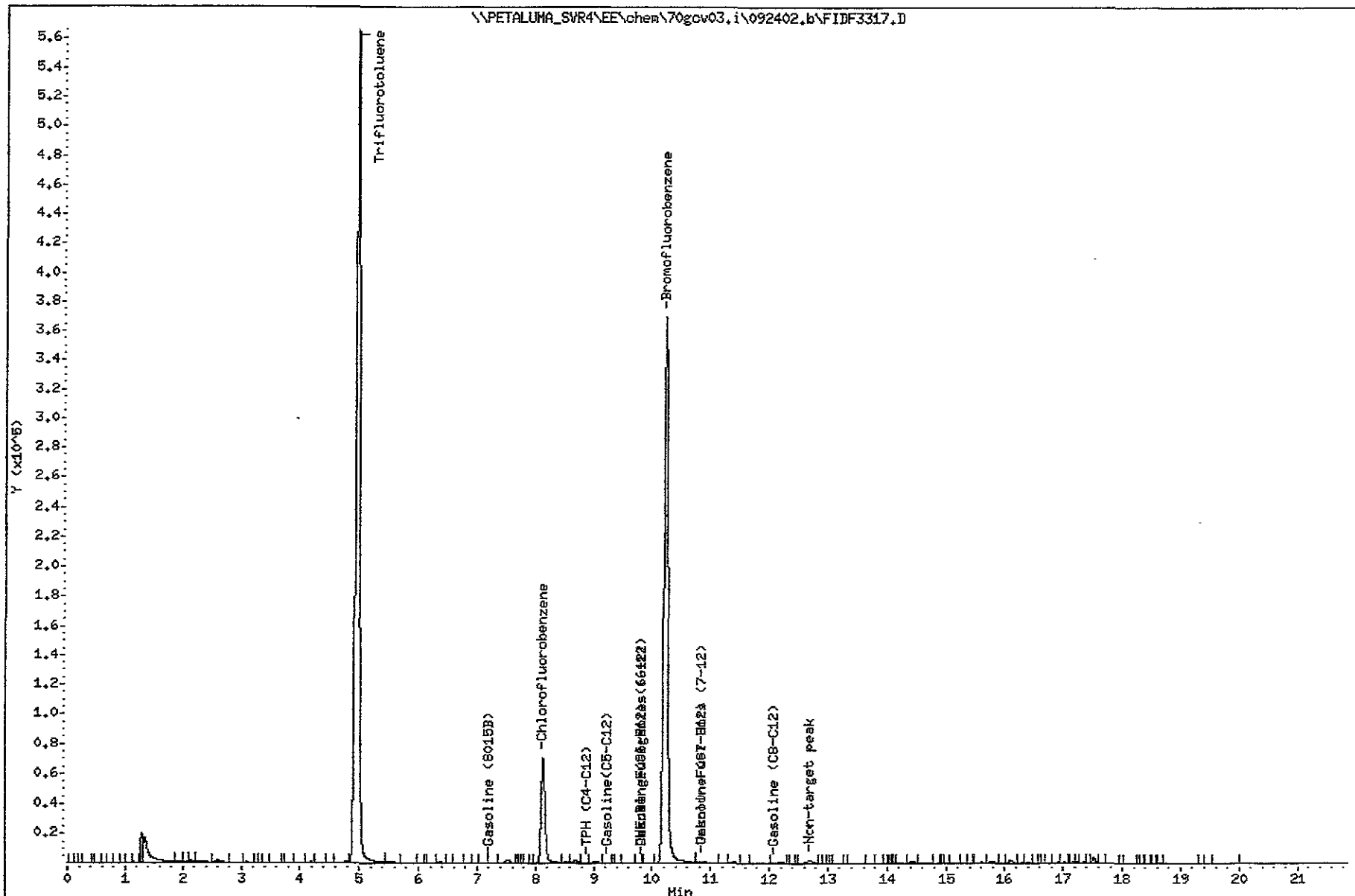
Purge Volume: 5.0

Column phase: HP-1

Instrument: 70gcv03.i

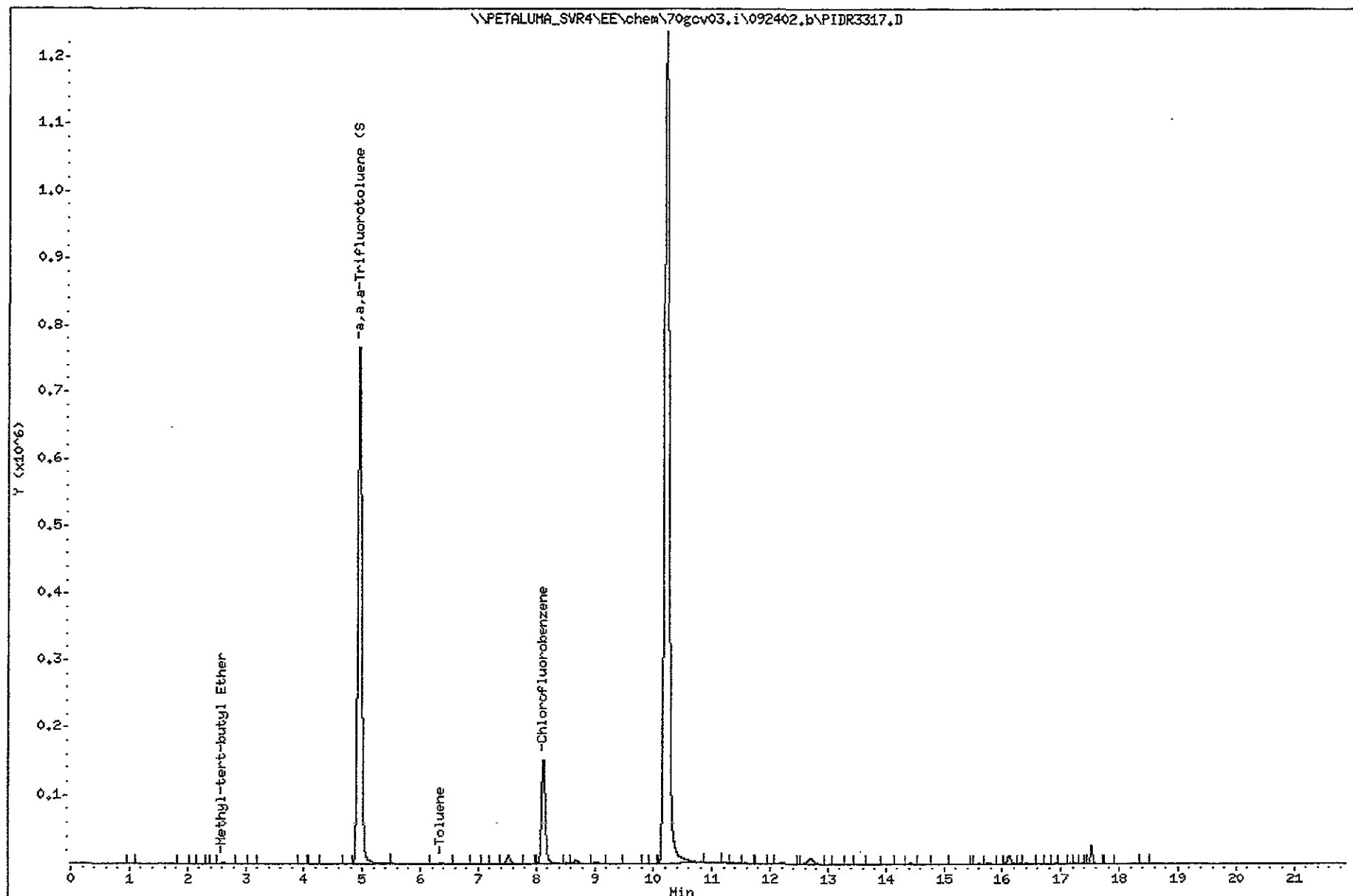
Operator: CMC

Column diameter: 0.53



Date : 24-SEP-2002 16:48
Client ID: D-2
Lab Sample ID: P209388-07
Purge Volume: 5.0
Column phase: DB-624

Instrument: 70gcv03.i
Operator: CMC
Column diameter: 0.53





CHAIN OF CUSTODY

Quotation No. _____

PROJECT NO.: BNC103		SITE NAME: B+C Gas Mini WMA		ANALYSES						EDD required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
SAMPLER(S): C Muir <small>(printed)</small>		check main <small>(signature)</small>									
CONTRACT LABORATORY: Saguia-Petaluma				Container Info							
TURN-AROUND TIME: Standard											
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks	
		Date	Time								
MW-2				WATER		3			3		
MW-5											
MW-7		9/17/02	1145	WATER		3			3	P209388-1	
MW-8		9/17/02	1307			3			3	-2	
MW-9		9/17/02	1109			3			3	-3	
MW-10		9/17/02	1344			3			3	-4	
MW-12		9/16/02	1620			3			3	-5	
MW-13		9/17/02	1224			3			3	-6	
D-2		9/16/02	1711	↓		3			3	-7	
Relinquished by: (signature) C Muir				Received by: (signature) 		Date/Time: 9-19-02 1039		SEND RESULTS TO: Attn: Karin Schiewen Conor Pacific/EFW 2580 Wyandotte St., Suite G Mountain View, CA 94043 Phone (650) 386-3828 Fax (650) 386-3815			
Relinquished by: (signature)				Received by: (signature)		Date/Time: at 1039					
Relinquished by: (signature)				Received by: (signature)		Date/Time:					