FOURTH QUARTER 1998 GROUNDWATER MONITORING RESULTS B&C Gas Mini Mart Livermore, California

Prepared by
EINARSON, FOWLER & WATSON
2650 East Bayshore Road
Palo Alto, California 94303
December 1998

Project BNC103



Consultants In Environmental Hydrogeology & Engineering

December 22, 1998 Project No. BNC103

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

Re:

Fourth Quarter 1998 Groundwater Monitoring Results, B&C Gas Mini

Mart, 2008 First Street, Livermore, California

Dear Mr. Angle:

Einarson, Fowler & Watson (EFW) has compiled fourth quarter 1998 groundwater monitoring results for B&C Gas Mini Mart (B&C), 2008 First Street, Livermore, California (Figure 1). This report includes fourth quarter 1998 groundwater elevation data, groundwater sampling methods, and results of groundwater chemical analyses.

SITE INFORMATION

Site Name

B&C Gas Mini Mart 2008 First Street Livermore, California 94550

Site Contact

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

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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 aquifer 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 at the B&C site has found the soil to be predominantly sandy clay, silty sand, silty gravel, and sandy gravel to a maximum explored depth of 77 feet.² Over the last nine 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. Table 1 presents historical site groundwater elevations.³

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).⁴

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.⁵ 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

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 Groundwater elevation and flow direction data from Remediation Service Int'l quarterly reports.

⁴ Remediation Service Int'l. Soil & Groundwater Investigation Report for 2008 First Street, Livermore, California. July 22, 1994.

⁵ Product thickness information from Remediation Service, Int'l field records, "Free Product Removal Logs."

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). Table 2 summarizes all B&C monitoring well constructions.

Historical Site Groundwater Chemistry

Table 3 presents a summary of historical groundwater chemistry results from the B&C site. 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. In 1994, concentrations in groundwater ranged from 810 to 41,000 micrograms per liter (µg/l). By 1997, concentrations in groundwater ranged from non-detectable to 28,000 µg/l. Over the last four years of monitoring at the site, concentrations of benzene have steadily decreased in all site wells.

Analysis of site groundwater samples for MTBE began in June 1995. Since then, concentrations of MTBE have decreased significantly. Initial analysis for MTBE from site wells in June 1995 detected concentrations ranging from 4,200 μ g/l in well MW-3 to 47,000 μ g/l in well MW-6. By February 1997, site wells contained significantly lower concentrations of MTBE. Well MW-3 contained 900 μ g/l and well MW-6 contained 790 μ g/l.

GROUNDWATER SAMPLING AND ANALYSIS

Fourth quarter 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 the fourth quarter 1998 sampling event, EFW checked for free product in all site wells. Free product was detected in well MW-5 and was measured to be approximately 0.22 feet thick. Well MW-2, which previously has been reported to contain free product, did not contain a measurable thickness of product this quarter. Well MW-6 also previously has been reported to contain free product; however, during the fourth quarter event, the well was blocked at a depth of approximately 28.4 feet and could not be checked. Off-site well MW-01, located approximately 800 feet downgradient from the B&C site on the Mill Springs Park property (MSP), was also checked for product (Figure 1). MSP well MW-01 did not contain a measurable thickness of product. However, a product sheen was observed on the water samples collected from this well.

Groundwater Elevations

On November 5, 1998, EFW 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 I.\BNC\103\CORRES\4Q98.DOC EINARSON, FOWLER & WATSON

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probe, according to EFW's standard measuring protocol,⁶ 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, for those wells that have been surveyed to mean sea level (MSL). Two wells, MW-5 and MW-6, have not been surveyed. (The surveying of these wells is included in the scope of work for the additional downgradient groundwater investigation that is scheduled to commence this winter.)

Table 1 summarizes available groundwater elevations from August 1990 to November 1998. A comparison of well screen elevations (Table 2) and fourth quarter measurements shows that water levels intercepted the screened intervals of the site wells at the time of groundwater sampling. A groundwater contour map, based on November 1998 measurements, is shown in Figure 2. Fourth quarter groundwater elevations are generally 7.0 feet lower than the previous quarter. Groundwater flow at the site is slightly west of north. Based on fourth quarter measurements, the hydraulic gradient is approximately 0.02 foot per foot. The flow direction and gradient are in accordance with previous results and reflect the seasonal flow direction that has been observed at the site.

Sampling Methods

EFW sampled monitoring wells (MW-1, MW-2, MW-3, and MW-4) on November 5, 1998, following EFW's standard protocol. Wells were purged using either a submersible pump or a polyvinyl chloride (PVC) bailer. Samples were collected from each well using disposable PVC bailers. Field measurements of temperature, pH, turbidity, and electrical conductivity were taken and recorded on water sample field data sheets (Appendix B). All purge water was contained in 55-gallon drums and has been disposed of properly consistent with analytical results. 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 Clayton Laboratory Services (Clayton) of Pleasanton, a state-certified laboratory. All groundwater samples were analyzed for TPH-G by Modified Environmental Protection Agency (EPA) Method 8015 and BTEX by EPA Method 8020. MTBE was analyzed for in all samples by EPA Method 8020. MTBE was confirmed in the sample from well MW-4 by EPA Method 8260. Laboratory analyses occurred within specified holding times and within laboratory quality control standards. The certified analytical report is located in Appendix A.

 ⁶ 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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Analytical Results

Table 3 presents a historical summary of groundwater analytical results from the B&C site. Fourth quarter 1998 analytical results for TPH-G, benzene, and MTBE are also presented on Figure 3.

Upgradient Well

Well MW-4 did not contain detectable concentrations of TPH-G. Benzene was detected at a low concentration of 0.7 μ g/l. MTBE was detected at a concentration of 27 μ g/l by EPA Method 8020 and 26 μ g/l by EPA Method 8260. Since June 1995, concentrations of petroleum hydrocarbons have been very low to non-detectable in this well.

Tank Area Wells

TPH-G was detected at a concentration 6,000 μ g/l in well MW-1. BTEX concentrations ranged from 230 to 1,060 μ g/l. MTBE was non-detectable with a detection limit of 100 μ g/l.

In well MW-2, TPH-G was detected at a concentration of 40,000 μ g/l. Concentrations of BTEX compounds ranged from 2,100 to 7,200 μ g/l. MTBE was detected at 1,200 μ g/l.

TPH-G was detected at a concentration of 26,000 μ g/l in well MW-3. Benzene was detected at 400 μ g/l and the other aromatic compounds ranged from 820 to 3,600 μ g/l. MTBE was detected at a concentration of 300 μ g/l, equal to the lowest result to date.

Concentrations of petroleum hydrocarbons detected in source area wells were within historical ranges. No significant trends in TPH-G concentrations over time are apparent. Concentrations of benzene and MTBE generally appear to be decreasing in most site wells.

Downgradient Wells

Well MW-5, located 75 feet downgradient of the site, contained free petroleum product, approximately 0.22 feet thick. No groundwater samples were collected from this well.

MSP well MW-01, located approximately 800 feet downgradient from the B&C site, was sampled during the fourth quarter event (Figure 1). Product sheen was visible on the water samples collected from the well. TPH-G was detected at a concentration of $10,000~\mu g/l$. Benzene was detected at $260~\mu g/l$ and the other aromatic compounds ranged from 120 to $1,100~\mu g/l$. MTBE was detected at a concentration of $200~\mu g/l$. These fourth quarter 1998 results are similar to the results from August 1995, when the well was last sampled. At that time, benzene was detected at a concentration of $190~\mu g/l$ and MTBE at $210~\mu g/l$.



FUTURE MONITORING

First quarter 1999 groundwater monitoring is currently scheduled for February. EFW will measure depth to water in all site wells. All wells without a measurable thickness of product will be sampled for TPH-G, BTEX, and MTBE. First quarter 1998 monitoring results will be reported to ACEHS.

If you have any questions regarding this report, please call us at (650) 843-3828.



Sincerely, Einarson, Fowler & Watson

Kris H. Johnson

Senior Engineering Geologist

C.E.G. 1763

Martha J. Watson

Principal Environmental Engineer

Attachments:

Tables

Table 1 - Summary of Groundwater Elevations

Table 2 - Monitoring Well Constructions

Table 3 - Historical Groundwater Analytical Results

Figures

Figure 1 - Site Location

Figure 2 - Groundwater Elevation Contours (November 1998)

Figure 3 - Petroleum Hydrocarbons in Groundwater (November 1998)

Appendices

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

ce: Eva Chu, ACEHS
Regional Water Quality Control Board, USTCF

Table 1 Summary of Groundwater Elevations B & C Gas Mini Mart Livermore, California

Well No.	Top-of-Casing Elevation (feet, MSL)	Date Measured	Depth to Water (feet)	Groundwater Elevation (feet, MSL)	Depth to Free product (feet)	Product Thickness (feet)
MW-1	487.00	09/22/88	60,50	426.50		
		08/02/90	43.10	443.90		
		10/10/91	66,39	420.61		
		01/08/92	68.72	418.28		
		05/11/93	34.76	452.24		
		09/21/93	38.70	448.30		
		05/22/94	33.57	453 43		
	484.07	06/19/94	37.51	446.56		
		08/25/94	43.27	440.80		
		11/22/94	40.58	443.49		
		03/13/95	28.06	456.01		
		06/01/95	21.76	462.31		
		02/29/96	18.86	465 21		
		Feb-97	NM	NM		
		07/30/98	25.90	458.17		
		11/05/98	33.23	450.84		
MW-2	483.86	06/19/94	38.15	445.71		
		08/25/94	44.13	-	43.47	0.66
		11/22/94	40,96	-	40.92	0.04
		03/09/95	29.28	-	28.47	0 81
		03/13/95	28.71	-	28.29	0.42
		06/01/95	22.61	461.25		
		02/29/96	20.05	463.81		
		Feb-97	18.30	465.56		
		07/30/98	25.75	-	25 74	0.01
		11/05/98	33.31	450,55		
MW-3	484 24	06/19/94	37.15	447.09		
141 44 3	10.2.	08/25/94	42,31	441.93		
		11/22/94	40.07	444 17		
		03/13/95	27.94	456.30		
		06/01/95	21.31	462 93		
		02/29/96	18 78	465 46		`
		Feb-97	16.97	467.27		
		07/30/98	24.88	459 36		
		11/05/98	32.09	452.15		
MW-4	485.04	06/19/94	37.49	447.55		
		08/25/94	42.25	442.79		
		11/22/94	40.59	444.45		
		03/13/95	28.00	457.04		
		06/01/95	21.51	463.53		
		02/29/96	18.42	466.62		
	,	Feb-97	17.47	467.57		
		07/30/98	25.47	459.57		
		11/05/98	32.67	452.37		
MW-5	NS	02/29/96	19.35			
		Feb-97	18.19			
		07/30/98	25.25		25.24	0.01
		11/05/98	32.70		32.48	0.22
MW-6	NS	02/29/96	20.32			
14T AA -O	149		18.92			
		Feb-97			25.50	0.01
		07/30/98	25 59 NA		25.58	0.01
		11/05/98	NA			
MSP MW-01	477,79	07/30/98	30.37	447,42	30.35	0.02
		11/05/98	38.01	439.78		

Notes.

Data prior to 1998 from RSI quarterly reports February 1997 date unknown.

NM - not measured, NS - not surveyed, NA - well not accessible, blocked at 28.4 feet.

MSP - Mill Springs Park

Table 2 Monitoring Well Constructions B&C Gas Mini Mart Livermore, California

			T.D.	T.D.	Borehole	Casing	Casing	Screen	Sand	Screened	Sand Pack
Well	Drilling	Date	Boring	Well	Diameter	Material	Diameter	Size	Pack	Interval	Interval
No.	Method	Installed	(ftbgs)	(ftbgs)	(in.)	(PVC)	(in.)	(in.)	Material	(ftbgs)	(ftbgs)
MW-1	HSA	Sep-88	77.0	77.0	8	PVC	2	0.020	#3 sand	27 - 77	25 - 77
MW-2	HSA	Jun-94	60.0	60.0	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-3	HSA	Jun-94	60.0	60.0	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-4	HSA	Jun-94	60.0	60.0	10	PVC	4	0.020	#2/20 sand	30 - 60	27 - 60
MW-5	HSA	Oct-95	42.0	40.0	10	PVC	4	0.020	#2 sand	15 - 40	12 - 40
MW-6	HSA	Oct-95	42.0	40.0	10	PVC	4	0.020	#2 sand	15 - 40	12 - 40

HSA

Hollow-Stem Auger

T.D.

Total Depth

feet below ground surface ft.-bgs

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

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

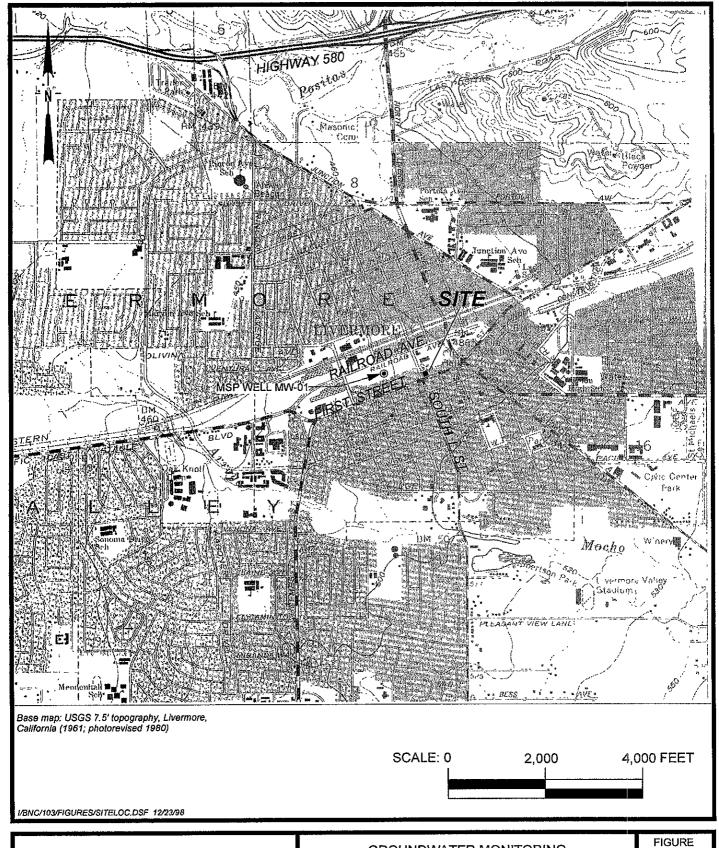
Well	Sample	трн-G	Benzene	Toluene	Ethylbenzene	Xylenes	MTBF
No.	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l
MW-1	Aug-90	24,000	1,300	1,300	400	2,700	NA
141 44 - 1	Oct-91	2,000	430	170	100	290	NA
	Jan-92	1,000	200	120	30	150	NA
	May-93	960	66	8	41	90	NA
	Sep-93	1,900	311	118	34	112	NA
	May-94	10,000	690	1,100	340	1,200	NA
	Aug-94	13,000	290	690	120	670	NA
	Nov-94	19,000	400	770	230	130	NA
	Mar-95	6,000	900	100	980	740	NA
	Jun-95	2,400	210	380	53	280	13,000
	Sep-95	7,800	69	1,300	220	1,200	2,000
	Feb-96	120	4.2	1.4	4.7	5.6	14
	Feb-97	NS*	NS*	NS*	NS*	NS*	NS
	Jul-98	1,400	26	110	57	243	410
	Nov-98	6,000	230	330	240	1,060	<10
MW-2	Jun-94	290,000	18,000	36,000	4,600	26,000	NA
	Aug-94	NS**	NS**	NS**	NS**	NS**	NA
	Nov-94	NS**	NS**	NS**	NS**	NS**	ΝA
	Mar-95	NS**	NS**	NS**	NS**	NS**	NA
	Jun-95	25,000	2,300	3,400	720	3,100	16,000
	Sep-95	NS**	NS**	NS**	NS**	NS**	NS* 6,500
	Feb-96	57,000	2,500	650	3,700	3,100	1,300
	Feb-97	20,000	860	1,500	480 NS**	1,000 NS**	NS*
	Jul-98	NS**	NS**	NS**	2,100	7,200	1,200
	Nov-98	40,000	2,400	2,500	2,100	•	
MW-3	Jun-94	11,000	640	580	270	790	NA
	Aug-94	41,000	1,600	2,300	330	1,800	NA
	Nov-94	18,000	8,000	10,000	900	5,000	NA
	Mar-95	44,000	1,600	1,300	5,000	6,600	NA 4,200
	Jun-95	15,000	600	1,900	490	2,600 870	2,700
	Sep-95	8,000	710	1,100	180		1,500
	Feb-96	13,000	260	200	200 170	1,100 600	900
	Feb-97	11,000	260	550	490	1,860	300
	Jul-98 Nov-98	25,000 26,000	330 400	1,200 2,100	820	3,600	300
		•					N/
MW-4	Jun-94	810	12	25 51	<0.5 9.5	22 35	N/
	Aug-94	850	37		5.8	58	N/
	Nov-94	1,700	110 180	110 8	52	77	NA
	Mar-95	1,300	3	ì	ND	1	NI
	Jun-95	ND		<0.5	<0.5	<0.5	<2
	Sep-95	<50 87	0.69 <0.5	<0.5	<0.5	<0.5	<0.
	Feb-96	<50	<0.5	<0.5	<0.5	<0.5	2.
	Feb-97 Jul-98	<50 <50	<0.4	0.60	<0.3	0.80	<
	101-98 Nov-98	<50	0.7	<0.3	<0.3	<0.8	2
					2 100	15,000	39,00
MW-5	Oct-95	120,000	16,000	26,000	3,100 860	4,100	20,00
	Feb-96	47,000	3,400	4,200	480	1,000	2,20
	Feb-97	28,000	1,300	1,500 4,000	2,000	8,500	60
	Jul-98 Nov-98	47,000 NS**	1,400 NS**	NS**	NS**	NS**	NS:
						17 000	47.00
MW-6	Oct-95	110,000	9,900	22,000	3,200	17,000 2,600	47,00 6,30
	Feb-96	23,000	2,000	460	2,900 200	2,600 590	79
	Feb-97	12,000	450	780 NS**	NS**	NS**	NS:
	Jul-98 Nov-98	NS** NS*	NS** NS*	NS*	NS*	NS*	No No
	1107-70	110	710				
ASP MW-01	Aug-95	11,000	190	260	110	900	2
	Nov-98	10,000	260	120	500	1,100	20

ug/i = micrograms per liter
TPH-G = Total Petroleum Hydrocarbons as Gasoline
MTBE = meilhyl tertiary-butyl eiher
MSP = Mill Springs Park

NA= not analyzed

NS= not sampled *= well inaccessible ** = floating hydrocarbon present

ND = not detected above reporting limit, limit not available



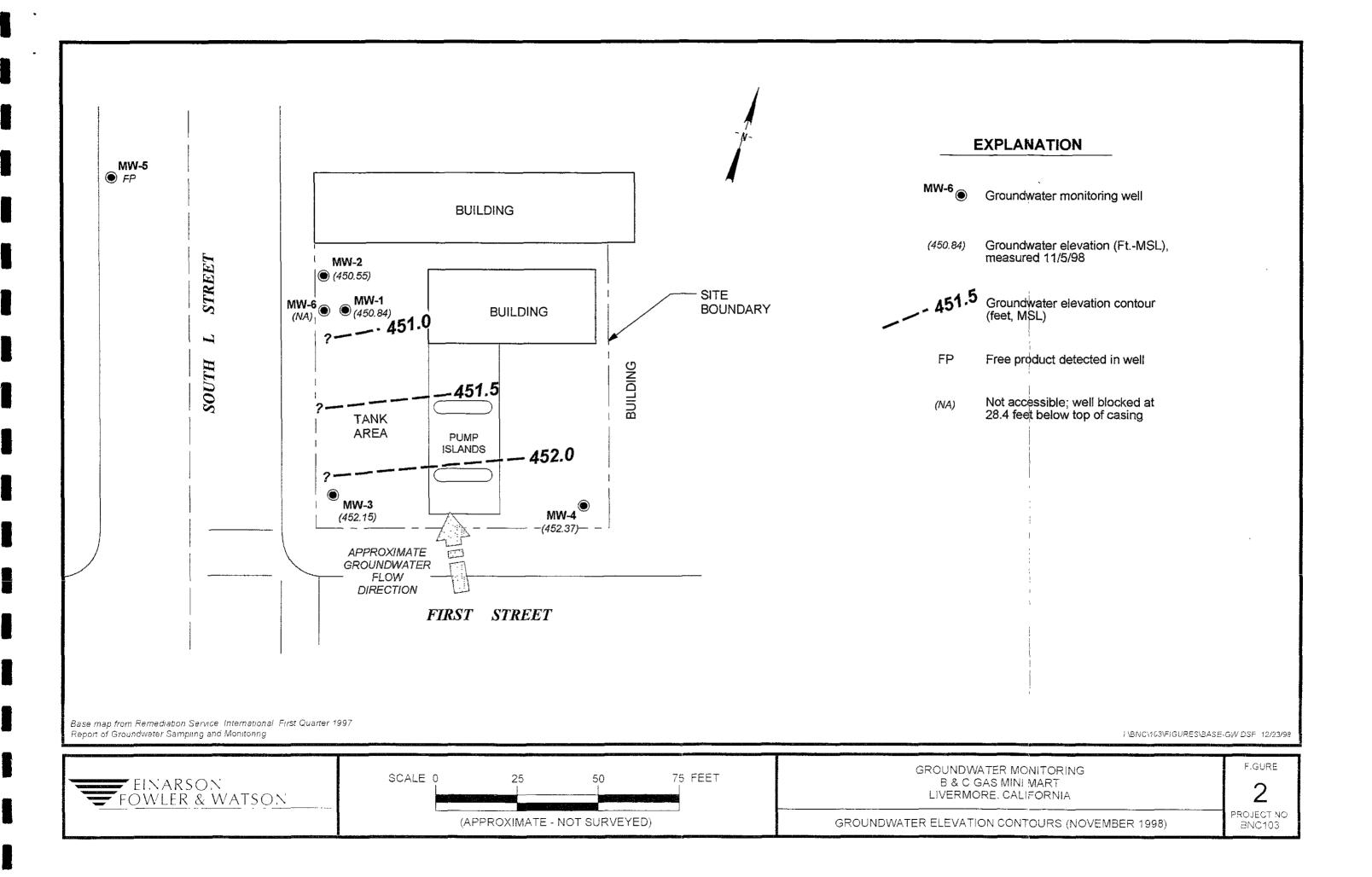


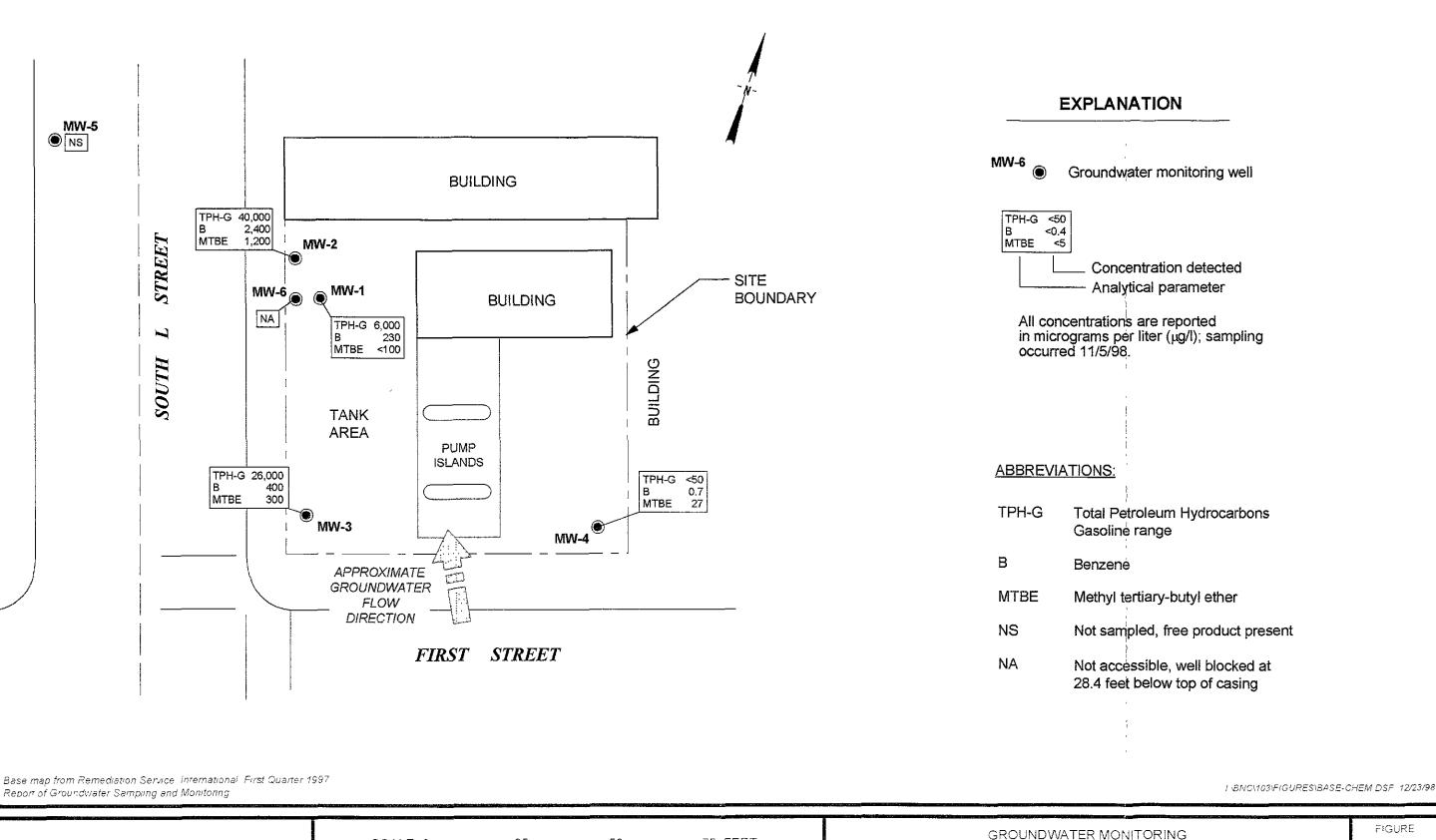
GROUNDWATER MONITORING B & C GAS MINI MART LIVERMORE, CALIFORINA

SITE LOCATION MAP

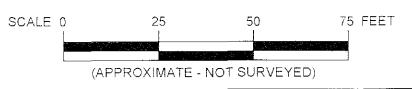
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PROJECT NO. BNC103









B & C GAS MINI MART LIVERMORE CALIFORNIA

PETROLEUM HYDROCARBONS IN GROUNDWATER (NOVEMBER 1998)

FIGURE

3

PROJECT NO BNC103

APPENDIX A

WATER SAMPLE FIELD DATA SHEETS AND CERTIFIED ANALYTICAL REPORT

WATER LEVEL DATA SHEET EINARSON, FOWLER & WATSON

ı	Project D&C	Gae Mini M	art	<u>. </u>						
	Project: B&C Gas Mini Mart Project No.: BNC103									
	Date(s): 11 5 99									
Ì	Name: PVWV									
	Name: 1-V	000 B	\. \. \. \.		Sounder#	1201				
	Weather: Partly Cloudy Sounder #: Klok									
	Well	Date	(TOC)		Depth	Meas. By	Comments			
n	MW-1	115/90		33.23	75.9		1" PUC PIPE PREMIT			
4	MW-2			33.31	Sle.o		1" & PUC Pipe PrESENT 1" & PUC Pipe PrESENT 1111" 1" & PUC Pipe PrESENT			
S	MW-3			32.09	Su.le		Pliu" (" & Pro pipe present			
1	MW-4			32.67	99.9	m	```			
u	MW-5		32.40	32.70	HM _		ישרי ישרי			
ろ	MW-6		-	dru	27.0.		exe folid book for addf 1 comments			
1	MS MW01	1		36.01	59.6		Ollu"			
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WATER SAMPLE FIELD DATA

LOCATION: B4C GOS MIMI MOVA	SAMPLE ID: MW-1				
PROJECT NO: BNC103	SAMPLED BY: Paw				
CLIENT: BACGOS WINI WONT	REGULATORY AGENCY:				
SAMPLE TYPE: Groundwater P Surface Water					
CASING DIAMETER (OD-inches): 3/4 1	2 P 4 Nn 4.5 6 8				
GALLONS PER LINEAR FOOT: (0.02) (0.04	· · · · · · · · · · · · · · · · · · ·				
Well Total Depth (ft): 75.9	Volume in Casing (gal): 7.3				
Depth to Water (ft): 33.23	Calculated Purge (volumes / gal.): 21.0				
Height of Water Column (ft): 42.47	Actual Pre-Sampling Purge (gal): 22.0				
PURGE:	. 1				
Device (Depth of Intake from TOC): Submersible Pump S.S. Bailer Teflon Bailer, PVC Bailer	Peristaltic Pump PVC Hand Pump Disposable Bailer Other				
Purge Water Containment: Crummed 14 on Sile					
Field QC Samples Collected at this Well (Equipment or Field E	Blank): EB Other				
Specific Conducta					
Time Volume Temp, Horiba QuickC (2400 Hr) (gallons) (°C) (µmhos/cm) (µS	•				
(2400 Hr) (gallons) (°C) (μmhos/cm) (μS 1149 7.5 20.3 1000	7.11 H.Grown Nigh				
	712				
	714				
1157 220 20.3 1090	7.14 & moderate				
	•				
	Purge Date: 11/5/98				
SAMPLE:					
Device (Depth of Intake from TOC): Submersible Pump	Peristaltic Pump PVC Hand Pump				
Teflon Bailer PVC Bailer Disposable Baile					
Specific Conductance	Dissolved				
Time Temp. Horiba QuickChe (2400 Hr) (°C) (µmhos/cm) (µS)	cck pH Oxygen Color Turbidity (std. units) (mg/l) (visual) (NTU)				
1201 20.2 1090	7.21 4.30 Harm 7999				
	Sample Date: 11 5 98				
Field Measurement Devices: Horiba Omega O	QuickCheck D.O. Test Kit				
REMARKS:					
SIGNATURE: WWA	DATE: 45/90				
1057					
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WATER SAMPLE FIELD DATA

LOCATION: BECGAS MINIMANT	SAMPLE ID: WW-2
PROJECT NO: BNC 103	SAMPLED BY: PWW
CLIENT: B: CGaSMINI WOVY	REGULATORY AGENCY:
SAMPLE TYPE: Groundwater Surface Water	Leachate Treatment Effluent Other
CASING DIAMETER (OD-inches): 3/4 1	24 <u></u> 4.568
GALLONS PER LINEAR FOOT: (0.02) (0.04	
Well Total Depth (ft): 50.0	Volume in Casing (gal):
Depth to Water (ft): 33.31	Calculated Purge (volumes / gal.): 45.0
Height of Water Column (ft): 27.69	Actual Pre-Sampling Purge (gal): 45.0
PURGE: Device (Depth of Intake from TOC): Submersible Pump S.S. Bailer Teflon Bailer PVC Bailer Purge Water Containment: Of Manual PVC Bailer	Peristaltic Pump PVC Hand Pump Disposable Bailer Other
Field QC Samples Collected at this Well (Equipment or Field I	Blank): EB FB Other
Time Volume Temp. Horiba QuickΩ (2400 Hr) (gallons) (°C) (μmhos/cm) (μS 1319 15.0 20.0 1000 1325 30.0 20.0 1000 1331 45.0 20.0 1000	Check pH Color Turbidity
	Purge Date: 11599
SAMPLE: Device (Depth of Intake from TOC): Submersible Pump Teflon Bailer PVC Bailer Disposable Bail Specific Conductance	Peristaltic Pump PVC Hand Pump
Time Temp. Horiba QuickCh (2400 Hr) (°C) (μmhos/cm) (μS) (340 20.5 1070 Sheen: Madvatt Odor: Strang)	
	QuickCheck D.O. Test Kit
SIGNATURE MAN	DATE: 11/5/90

WATER SAMPLE FIELD DATA

LOCATION: BicGasmmimar	SAMPLE ID: MW-3
PROJECT NO: 13-NC LO3	SAMPLED BY: EPANE
CLIENT: 139C GOS WIMI WAV+	REGULATORY AGENCY:
	Leachate Treatment Effluent Other
CASING DIAMETER (OD-inches): 3/4 1	2468
GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)
Well Total Depth (ft):	Volume in Casing (gal): 10.2
Depth to Water (ft): 32.09	Calculated Purge (volumes / gal.): 40.0
Height of Water Column (ft): 24.51	Actual Pre-Sampling Purge (gal): 50.0
DIDCE.	
Device (Depth of Intake from TOC): Submersible Pump 5. S.S. Bailer Teflon Bailer PVC Bailer	Disposable Bailer Other
Purge Water Containment: Or UMWLO	
Field QC Samples Collected at this Well (Equipment or Field E	lank): EB Other
Specific Conducta	
Time Volume Temp. Horiba QuickC	
(2400 Hr) (gallons) (°C) (μmhos/cm) (μS)	(std. units) (visual) (visual) Observation 7.10 H. Grown high
700	
1234 34.0 20.4 1050	$\frac{7.10}{1.00}$
1240 50.0 20.4 1050 /	7.10 1 moderate
	Purge Date: U[5]90
SAMPLE:	•
Device (Depth of Intake from TOC): Submersible Pump	Peristaltic Pump PVC Hand Pump
Teflon Bailer PVC Bailer Disposable Baile	
Specific Conductance	Dissolved Colon Typhidity
Time Temp. Horiba QuickChe (2400 Hr) (°C) (µmhos/cm) (µS)	eck pH Oxygen Color Turbidity (std. units) (mg/l) (visual) (NTU)
(2400 Hr) (°C) (μmhos/cm) (μS)	7.09 2.66 H. Gown 432
Sheen: woderate odgr: Strong	Sample Date,
I loud intomonion by the state of the state	QuickCheck D.O. Test Kit
REMARKS:	
mann	115/98
SIGNATURE:	DATE:

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WATER SAMPLE FIELD DATA

LOCATION: B'TCGas MM; Mart	SAMPLE ID: MW-4
PROJECT NO: 13N CIO3	SAMPLED BY: Paw
CLIENT: BECGASIMMI MAN	REGULATORY AGENCY:
	Leachate Treatment Effluent Other
CASING DIAMETER (OD-inches): 3/4111	244.568
	(0.17) (0.66) (0.83) (1.5) (2.6)
Well Total Depth (ft): 59.9	Volume in Casing (gal): 10.0
Depth to Water (ft): 32.47	Calculated Purge (volumes / gal.): 54.0
Height of Water Column (ft): 27.23	Actual Pre-Sampling Purge (gal): 54.0
PHRGE:	n 1
Device (Depth of Intake from TOC): Submersible Pump	Peristaltic Pump PVC Hand Pump Disposable Bailer Other
S.S. Bailer Teflon Bailer PVC Bailer Purge Water Containment: Number Containment	+{
Field QC Samples Collected at this Well (Equipment or Field B	lank): EB FB Other
Specific Conductar	<u>108</u>
Time Volume Temp. Horiba QuickCl	
(2400 Hr) (gallons) (°C) (μmhos/cm) (μS)	
1039 10.0 19.6 1000	7.09 (1.60m low)
1050 36.0 20.2 1070	7.10 coloruss trace
1057 54-0 20.1 1070	7.12 U. Sovantint LOW
	11000
	Purge Date: 11599
SAMPLE:	
Device (Depth of Intake from TOC): Submersible Pump	Peristaltic Pump PVC Hand Pump
Teflon Bailer PVC Bailer Disposable Baile	
Specific Conductance	Dissolved ock pH Oxygen Color Turbidity
Time Temp. Horiba QuickChe (2400 Hr) (°C) (μmhos/cm) (μS)	ck pH Oxygen Color Turbidity (std. units) (mg/l) (visual) (NTU)
(2400 Hr) (°C) (μmhos/cm) (μS)	7.12 6.76 Hisanton 167
100	Sample Date: 11599
Sheen: Vivi C Oddi.	QuickCheck D.O. Test Kit
1 1010 11100001 0111010 20 11000.	
REMARKS:	
Calibrated meter 1015, 115/100: pt: 7.03, 10.09)	EC.0. 2.00; twb: 0. Do: auto; T:17.5°C
Critical Marie Line Anna Company	1
mamm	DATE: USAU
SIGNATURE:	DAIE;

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WATER SAMPLE FIELD DATA

LOCATION: B3C Gas Mini Mart	SAMPLE ID: WW-5					
PROJECT NO. 1501/. LV.3 SAMPLED BY: 12/1/1/1/						
	REGULATORY AGENCY:					
	Leachate Treatment Effluent Other					
CASING DIAMETER (OD-inches): 3/4 1	24 <u>_</u> 4.568					
GALLONS PER LINEAR FOOT: (0.02) (0.04)						
Well Total Depth (3): 32-AB	Volume in Casing (gal):					
	Calculated Purge (volumes / gal.):					
00041166						
	Actual Pre-Sampling Purge (gal);					
PURGE: Device (Depth of Intake from TOC): Submersible Pump	Peristaltic Pump PVC Hand Pump					
S.S. Bailer Teflon Bailer PVC Bailer	Disposable Bailer Other					
Purge Water Containment:	ank): EB- FB- Other					
Field QC Samples Collected at this Well (Equipment or Field Bla	ink): EB FB Other					
Specific Conductance	-					
Time Volume Temp. Horiba QuickChe						
(2400 Hr) (gallons) (°C) (μmhos/cm) (μS)	(std. units) (visual) Observation					
·	/					
	/					
	/					
/						
· /						
	Purge Date:					
	ruige Date.					
SAMPLE:	D talkin Duma					
Device (Depth of Intake from TOC): Submersible Pump Teflon Bailer DVC Bailer Disposable Bailer	Peristaltic Pump PVC Hand Pump Other					
	Dissolved					
Specific Conductance Time Temp. Horiba QuickChec						
(2400 Hr) (°C) (μmhos/cm) (μS)	(std. units) (mg/l) (visual) (NTU)					
	Sample Date:					
Sheen: Odor:	uickCheck D.Q. Test, Kit					
Field Measurement Devices: Horiba Omega REMARKS: FOLD OUTING DNOW TO SUIT	100 Saurus Collected.					
REMARKS: POLITICAL DIVINO DIVINO PIE INVILL) 10 36 4					
	Total Television					
1000000000000000000000000000000000000	111-100					
SIGNATURE:	DATE: \(\frac{1}{5}\)					
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WATER SAMPLE FIELD DATA

LOCATION: BiCGas Mini War	SAMPLE ID: MW-W				
PROJECT NO: BNC 103	SAMPLED BY: PVWV				
CLIENT: 139C Gas Mini Mart	REGULATORY AGENCY:				
	Leachate Treatment Effluent Other				
CASING DIAMETER (OD-inches): 3/4 1					
	(0.17) (0.66) (0.83) (1.5) (2.6)				
Well Total Depth (ft): 20.4	Volume in Casing (gal):				
Depth to Water (ft): dry	Calculated Purge (volumes / gal.):				
Height of Water Column (ft):	Actual Pre-Sampling Purge (gal):				
PURGE:	D. C. H. D. C. H. L. D. C. H.				
Device (Depth of Intake from TOC): Submersible Pump S.S. Bailer PVC	Peristaltic Pump PVC Hand Pump Disposable Bailer Other				
Purge Water Containment:	Dispositore Danier				
Field QC Samples Collected at this Well (Equipment or Field E	Blank): EBOther				
Specific Conducts					
Time Volume Temp. Horiba QuickC	· · · · · · · · · · · · · · · · · · ·				
(2400 Hr) (gallons) (°C) (μmhos/cm) (μS					
	· · · · · · · · · · · · · · · · · · ·				
	•				
	·				
	Purge Date:				
SAMPLE:	Peristaltic Pump PVC Hand Pump				
Device (Depth of Intake from TOC): Submersible Pump Teflon Bailer PVC Bailer Disposable Bailer					
	Dissolved				
Specific Conductance Time Temp. Horiba QuickCh	- 4 4 4				
Time Temp. Horiba QuickCh (2400 Hr) (°C) (μmhos/cm) (μS)	(std. units) (mg/l) (visual) (NTU)				
(2400 bi) (C) (µimios oin) (po)					
	OI. Detail				
Sheen: Odor:	Sample Date:				
I told Medalitemone Dovides. Trends	Quicksheck, D.O. Test Kit				
REMARKS: NO Samples Collected - S	ACTMIX 10 BODE OF CHECKIBS.				
. A A =	,)) 1 / 10				
SIGNATURE: WWW	DATE: 11/5/98				
SIGNATURE:					

65 of 7

EINARSON FOWLER & WATSON

WATER SAMPLE FIELD DATA

Mill Springs tack	•					
LOCATION: BGC Gas Mini Mart	SAMPLE ID: WS WWO (
PROJECT NO. 12NC 103	SAMPLED BY: 12 Panc					
CLIENT: 133C Gas Wini Mart	REGULATORY AGENCY:					
SAMPLE TYPE: Groundwater Surface Water	Leachate Treatment Effluent Other					
CASING DIAMETER (OD-inches): 3/41	$\frac{2}{(0.17)}$ $\frac{4}{(0.66)}$ $\frac{4.5}{(0.83)}$ $\frac{6}{(1.5)}$ $\frac{8}{(2.6)}$					
GALLONS PER LINEAR FOOT: (0.02) (0.04						
Well Total Depth (ft): 59. U	Volume in Casing (gal): 3.7					
Depth to Water (ft): 36.01	Calculated Purge (volumes / gal.):					
Height of Water Column (ft): 21,59	Actual Pre-Sampling Purge (gal): 11.5					
PURGE:	Peristaltic Pump PVC Hand Pump					
Device (Depth of Intake from TOC): Submersible Pump S.S. Bailer Teflon Bailer PVC Bailer	Disposable Bailer Other					
Purge Water Containment: (VWWWQ), TWW DOD-	PTU Darwi,					
Field QC Samples Collected at this Well (Equipment or Field I	Blank): EB FB Other					
Specific Conducte						
Time Volume Temp. Horiba QuickC						
1000	1 7.09 Hibram modrate heavy sheer					
1529 4.0 19.7 1040 /	7.0 Whome small					
	7.10 product globale					
1545 11.5 10.9 1040						
	Purge Date: 11594					
	Targe Pares					
SAMPLE: Device (Depth of Intake from TOC): Submersible Pump	Peristaltic Pump PVC Hand Pump					
Device (Depth of Intake from TOC): Submersible Pump Teflon Bailer PVC Bailer Disposable Bail						
Specific Conductance	Dissolved					
Time Temp. Horiba QuickCh	neck pH Oxygen Color Turbidity					
(2400 Hr) (°C) (µmhos/cm) (µS)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
15 53 10.0 1020	The last					
Sheen: Mary WSOME Styllburgor: Strong	Sample Date: 1 1					
Field Measurement Devices: Horiba Omega	QuickCheck D.O. Test Kit Small product					
REMARKS: NO Product Present when	- continued throughout purge!					
- Justice Williams						
mann	DATE: 11/5/98					

1252 Quarry Lane P.O. Box 9019 Pleasanton, CA 94566 (925) 426-2600 Fax (925) 426-0106



November 30, 1998

Ms. Jennifer Panders EINARSON, FOWLER & WATSON EINARSON, FOWLER & WATSON 2650 East Bayshore Road Palo Alto, CA 94303

> Final report Client Ref.: BNC 103 Clayton Project No.: 98110.81

Dear Ms. Panders:

Attached is our final analytical laboratory report for the samples received on November 5, 1998. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after December 19, 1998, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Client Services at (925) 426-2657.

Sincerely,

Patricia Flynn

Client Services Representative San Francisco Regional Office

PVF/pvf

Attachments

California DHS ELAP Certification Number 1196

Page 2 of 9

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: MW-4

Lab Number:

9811081-04A

Sample Matrix/Media:

WATER

Preparation Method: Method Reference:

EPA 5030A

EPA 8260A

Date Sampled:

11/05/98 Date Received: 11/05/98

Date Prepared:

11/17/98 11/17/98

Date Analyzed:

Analyst:

DTL

			Limit of
Analyte	CAS #	Concentration (ug/L)	Detection (ug/L)

Volatile Organic Compounds

MTBE

1634-04-4

26

5

Surrogates		Recovery (%)	QC Limits (%)
Dibromofluoromethane	1868-53-7	95	86 - 118
1,2-Dichloroethane-d4	17060-07-0	90	80 - 120
Toluene-d8	2037-26-5	98	88 - 110
4-Bromofluorobenzene	460-00-4	97	86 - 115

Page 3 of 9

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103

Clayton Project No. 98110.81

Sample Identification: METHOD BLANK

Date Sampled:

Lab Number:

9811081-06A

Date Received:

Sample Matrix/Media: Preparation Method:

WATER EPA 5030A Date Prepared: Date Analyzed:

11/17/98 11/17/98

Method Reference:

EPA 8260A

Analyst:

DTL

Analyte

CAS #

Concentration

Detection

Limit of

(ug/L)

(ug/L)

Volatile Organic Compounds

MTBE

1634-04-4

ND

5

<u>Surrogates</u>		Recovery (%)	OC Limits (%)
Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene	1868-53-7 17060-07-0 2037-26-5 460-00-4	96 95 100 99	86 - 118 80 - 120 88 - 110 86 - 115

Page 4 of 9

11/05/98

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: MW-1

Lab Number: Sample Matrix/Media:

Preparation Method: Method Reference:

9811081-01A

WATER EPA 5030

EPA 8015/8020

Date Sampled:

Date Received: Date Prepared:

11/05/98 11/16/98 11/16/98 Date Analyzed:

Analyst: FHK

CAS #	Limit of Detectior (ug/L)	
71-43-2	230	8
100-41-4	240	6
108-88-3	330	6
95-47-6	340	8
	720	8
	6000	1000
	ND	100
	Recovery (%)	QC Limits (%)
98-08-8	100	50 - 150
	71-43-2 100-41-4 ·108-88-3 95-47-6 	71-43-2 230 100-41-4 240 108-88-3 330 95-47-6 340 720 6000 ND

Page 5 of 9

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: MW-2

Lab Number:

9811081-02A

Cample Matrix/Media:

WATER

Preparation Method: Method Reference: EPA 5030

EPA 8015/8020

Date Sampled: Date Received:

11/05/98 11/05/98

Date Prepared:
Date Analyzed:

11/16/98 11/16/98

Analyst:

FHK

Analyte	CAS #	Limit of Detection (ug/L)	
BTEX/Gasoline			
Benzene	71-43-2	2400	20
Ethylbenzene	100-41-4	2100	20
Toluene o-Xvlene	108-88-3	2500	20
1	95-47-6	2100	20
p,m-Xylenes		5100	20
Gasoline MTBE		40000	3000
MTBE	- -	1200	300
Surrogates		Recovery (%)	QC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	95	50 - 150

of 9 Page 6

Analytical Results

for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: MW-3

Lab Number:

MTBE

9811081-03A

Sample Matrix/Media:

WATER

Preparation Method:

EPA 5030

Method Reference:

EPA 8015/8020

Date Sampled:

11/05/98 11/05/98

Date Received: Date Prepared:

300

11/17/98 11/17/98

100

Date Analyzed:

Analyst:

FHK

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline			
Benzene	71-43-2	400	8
Ethylbenzene Toluene	100-41-4 108-88-3	820 2100	6 6
o-Xylene	95-47-6	1000	8
p,m-Xylenes	- 	2600	8
Gasoline		26000	1000

Surrogates		Recovery (%)	OC Limits (%
a,a,a-Trifluorotoluene	98-08-8	111	50 - 150

Page 7 of 9

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: MW-4

a, a, a-Trifluorotoluene

Lab Number:

Surroqates

9811081-04A

ßample Matrix/Media:

WATER

Preparation Method: Method Reference:

EPA 5030

EPA 8015/8020

Date Sampled:

11/05/98 Date Received: Date Prepared: 11/17/98 Date Analyzed:

Analyst:

Recovery (%)

106

11/17/98 FHK

QC Limits (%)

50 - 150

11/05/98

neciloa necessia.	HIA 0015/0020		Andryse.	FIIK
Analyte		CAS #	Concentration (ug/L)	Limit of Detection (ug/L)
BTEX/Gasoline				
Benzene Ethylbenzene Toluene o-Xylene p,m-Xylenes Gasoline		71-43-2 100-41-4 108-88-3 95-47-6	0.7 ND ND ND ND ND	0.4 0.3 0.3 0.4 0.4
MTBE			27	5

98-08-8

Page 8 of 9

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: MSMW01

Lab Number:

9811081-05A

Sample Matrix/Media:

WATER

Preparation Method: Method Reference:

EPA 5030

Date Sampled: Date Received:

11/05/98 11/05/98

Date Prepared: Date Analyzed:

11/18/98 11/18/98

EPA 8015/8020

Analyst:

FHK

Analyte	CAS #	Concentration (ug/L)	Limit of Detection (ug/L)		
BTEX/Gasoline					
Benzene	71-43-2	260	8		
Ethylbenzene	100-41-4	500	6		
Toluene	108-88-3	120	6		
o-Xylene	95-47-6	250	8		
p,m-Xylenes	- -	850	8		
Gasoline		10000	1000		
MTBE		200	1.00		
Surrogates		Recovery (%)	QC Limits (%)		
a,a,a-Trifluorotoluene	98-08-8	97	50 - 150		

Page 9 of 9

Analytical Results for

EINARSON, FOWLER & WATSON Client Reference: BNC 103 Clayton Project No. 98110.81

Sample Identification: METHOD BLANK

Date Sampled:

Lab Number:

9811081-06A

Date Received:

Fample Matrix/Media: Preparation Method:

WATER EPA 5030 Date Prepared: Date Analyzed:

11/16/98 11/16/98

Method Reference:

EPA 8015/8020

Analyst:

FHK

Analyte	CAS #	Limit of Detection (ug/L)	
BTEX/Gasoline			
Benzene Ethylbenzene Toluene o-Xylene p,m-Xylenes Gasoline MTBE	71-43-2 100-41-4 108-88-3 95-47-6	ND ND ND ND ND ND	0.4 0.3 0.3 0.4 0.4 50
Surrogates a,a,a-Trifluorotoluene	98-08 - 8	Recovery (%) 91	<u>OC Limits (%)</u> 50 - 150

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