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ENVIRONMENTAL
95 AUG -3 01 11 15

July 26, 1995

Mr. Brian Cobb
E-Z Serve Petroleum Marketing Company of California
2550 N. Loop West, Suite 600
Houston, Texas 77292-2021

11-1564-04/1

Subject: Second Quarter 1995, Groundwater Monitoring Report
Former E-Z Serve Station #100877
525 West A Street, Hayward, California

Dear Mr. Cobb:

Brown and Caldwell conducted the second quarter 1995 groundwater monitoring event at E-Z Serve Petroleum Marketing Company of California's Former Station #100877, 525 West A Street, Hayward, California on June 15 and 16, 1995. The work performed at the subject site included collecting depth-to-groundwater measurements from 15 groundwater monitoring wells, purging and sampling 14 wells, and submitting the groundwater samples to Southern Petroleum Laboratories Inc. (SPL), an analytical laboratory located in Houston, Texas and certified by the State of California Department of Health Services for analysis of hazardous materials. Field work was performed following the procedures outlined in Attachment A.

Field Activities

Depth-to-water measurements were collected on June 15, 1995, using an oil-water interface probe and a clear acrylic bailer was used to check for free product. A minimum of three well volumes was purged from each of the monitoring wells prior to sampling. Samples were collected from each of the monitoring wells, transferred to the appropriate sampling vials, and submitted to SPL under appropriate chain of custody. In addition, a duplicate sample was collected from Well MW-7 and a field blank was prepared prior to sampling Well MW-7. A trip blank was prepared by SPL and accompanied the samples during shipping. Samples were analyzed by the laboratory for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylene isomers, following Environmental Protection Agency Methods 8015 modified and 8020.

Summary of Findings

Mr. Brian Cobb
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Field data collected during the sampling event indicate groundwater elevations have increased in wells MW-2, MW-3, MW-4, MW-7, MW-9, MW-11, MW-12, MW-13 and MW-14 and have decreased in wells MW-1, MW-1A, MW-5, MW-6, MW-8 and MW-10 relative to last quarter. The groundwater appears to flow to the west under an average gradient of 0.005 feet per foot (well MW-8 to well MW-11). Free product was identified in Well MW-1A, therefore, this well was not sampled. A petroleum odor was identified in Wells MW-1A, MW-2, MW-3, MW-5, MW-6, MW-10 and MW-11. Analytical results indicate that petroleum hydrocarbon constituents have slightly decreased in groundwater monitoring wells MW-2, MW-3, MW-9, and MW-11, slightly increased in MW-1, MW-4, MW-7 and MW-14 and remained consistent in the remaining wells when compared to historical data. A summary of the depth-to-water measurements, calculated groundwater elevations, and analytical results are included in Table 1. A groundwater contour map, identifying the primary groundwater flow direction on June 15, 1995 and the analytical results from each sample, is included as Figure 1. Field notes, the chain-of-custody form and the laboratory data sheets are included in Attachment A.

If you have any question regarding the information presented herein, please contact one of us at your earliest convenience.

Sincerely,

BROWN AND CALDWELL


Todd Miller
Project Manager


Jay Lucas
California Registered Geologist No. 4301

TM/PC:lkg
Attachments

cc: Mr. John Reeves, Attorney at Law
Ms. Madhulla Logan, Alameda County Department of Environmental Health

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HPLaserIII

Brown and Caldwell
Consultants

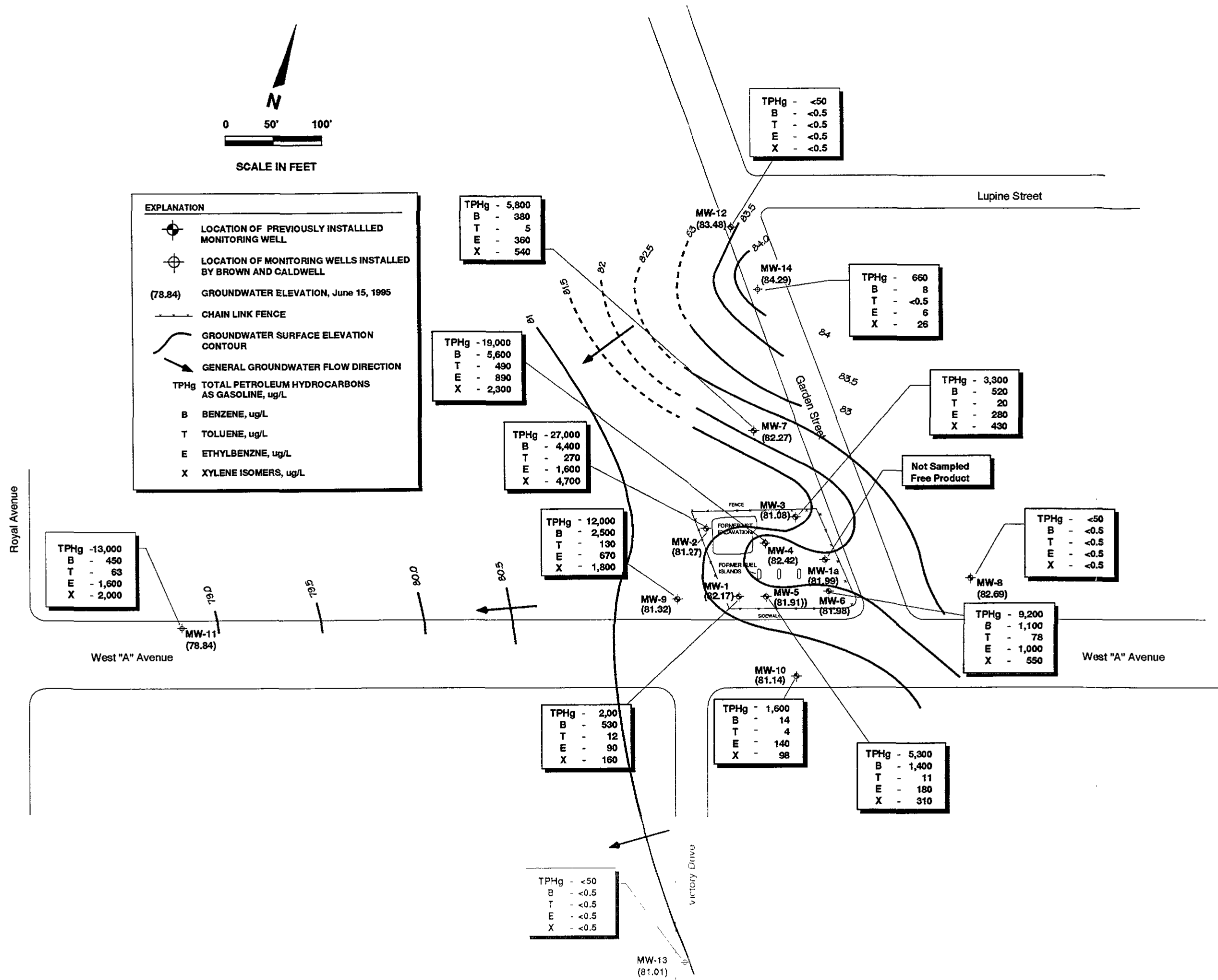


Figure 1 Groundwater Surface Elevation Contour and Petroleum Hydrocarbon Constituent Distribution Map, June 15 1995
Former E-Z Serve Station #100877 4901 525 West A Street, Hayward, California

**Table 1. Summary of Groundwater Elevation Data and Analytical Laboratory Results for
Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet) ¹	Depth to Water (feet) ²	Product Thickness (feet)	Groundwater Elevation (feet) ¹	EPA Methods 8015 and 8020 Concentration (µg/L)					
						TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes	
MW-1	5-Feb-92	99.91	20.82		79.09	46,000	76,000	23,000	2,400	6,500	
	11-Sep-92		20.08		79.83	48,000	9,000	1,200	1,800	4,600	
	22-Dec-92		19.79		80.12	84,000	22,000	1,600	4,800	17,000	
	3-Mar-93		16.23		83.68	54,000	16,000	1,600	1,900	4,300	
	23-Jun-93	96.73	16.86		79.87	30,000	18,000	1,100	1,400	3,700	
	30-Sep-93		18.04		78.69	33,000	10,000	440	940	1,700	
	6-Feb-94		18.15		78.58	64,000	18,000	1,600	4,700	12,000	
	2-May-94		17.26		79.47	7,200	2,100	29	490	520	
	1-Jul-94		17.60		79.13	13,000	3,700	150	550	12,000	
	20-Sep-94		20.59		76.14	10,000	3,100	75	440	870	
	5-Dec-94		17.83		78.90	8,700	3,700	87	520	950	
	10-Mar-95		14.67		82.06						
	15-Mar-95		14.43		82.30	290	56	2	12	47	
	16-Jun-95		14.56		82.17	2,000	530	12	90	160	
MW-1A	23-Jun-93	97.59	17.80	0.21	80.00		Sample Not Analyzed				
	30-Sep-93		Not Recorded			Well Not Sampled					
	6-Feb-94		18.89		78.70	8,900	1,700	42	1,000	400	
	2-May-94		18.35	0.09	79.33		Well Not Sampled				
	1-Jul-94		18.45		79.14	12,000	1,100	<1	920	1,100	
	20-Sep-94		21.72	0.22	76.09		Well Not Sampled				
	5-Dec-94		18.87	0.07	78.79		Well Not Sampled				
	10-Mar-95		15.83		81.76		Well Not Sampled				
	14-Mar-95		15.55	0.05	82.09		Well Not Sampled				
15-Jun-95	15.63	0.03	81.99		Well Not Sampled						
MW-2	5-Feb-92	101.45	22.35		79.10	67,000	13,000	4,700	820	1,300	
	11-Sep-92		21.67		79.78	57,000	9,000	1,400	1,200	8,400	
	22-Dec-92		21.39		80.06	31,000	9,900	350	2,000	4,100	
	3-Mar-93		17.75		83.70	17,000	5,100	1,300	720	1,900	
	23-Jun-93		98.06	18.42		79.64	60,000	23,000	1,500	4,500	17,000
	30-Sep-93			19.63		78.43	38,000	12,000	780	1,500	6,500

**Table 1. Summary of Groundwater Elevation Data and Analytical Laboratory Results for
Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet) ¹	Depth to Water (feet) ²	Product Thickness (feet)	Groundwater Elevation (feet) ¹	EPA Methods 8015 and 8020 Concentration (µg/L)				
						TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes
MW-3	6-Feb-94		19.61		78.45	34,000	8,900	450	2,000	5,500
	2-May-94		19.84		78.22	18,000	3,800	260	1,100	3,500
	1-Jul-94		19.18		78.88	18,000	3,700	510	870	2,600
	20-Sep-94		22.17		75.89	19,000	4,500	300	1,200	4,000
	6-Dec-94		19.37		78.69	22,000	4,700	340	1,400	4,500
	10-Mar-95		16.33		81.73					
	15-Mar-95		16.89		81.17	29,000	5,600	350	1,900	6,300
	16-Jun-95		16.79		81.27	27,000	4,400	270	1,600	4,700
	5-Feb-92	101.50	21.85		79.65	5,900	1,100	<1	<1	<1
	11-Sep-92		21.13		80.37	9,400	1,200	180	550	1,100
	22-Dec-92		20.88		80.62	12,000	2,800	190	850	1,600
	3-Mar-93		17.29		84.21	11,000	2,200	360	570	900
	23-Jun-93	97.66	17.88		79.78	33,000	12,000	2,700	1,300	3,500
	30-Sep-93		19.18		78.48	4,300	1,100	160	690	670
	6-Feb-94		19.21		78.45	20,000	4,800	430	1,500	2,900
	2-May-94		18.30		79.36	4,200	680	48	310	540
	1-Jul-94		18.63		79.03	4,600	600	63	240	470
	20-Sep-94		21.64		76.02	8,200	2,200	130	670	930
	6-Dec-94		19.15		78.51	4,000	640	34	290	480
	10-Mar-95		15.86		81.80					
15-Mar-95		16.61		81.05	4,300	980	47	370	780	
16-Jun-95		16.58		81.08	3,300	520	20	280	430	
MW-4	5-Feb-92	100.50	21.31		79.19	16,000	2,700	410	<1	3,400
	11-Sep-92		20.62		79.88	43,000	7,600	1,600	1,400	4,100
	22-Dec-92		20.37		80.13	29,000	8,800	1,200	1,500	3,700
	3-Mar-93		16.78		83.72	17,000	5,000	1,500	680	1,700
	23-Jun-93	97.10	17.45		79.65	5,700	3,000	120	560	790
	30-Sep-93		18.64		78.46	21,000	7,000	2,100	970	2,600
	6-Feb-94		18.59		78.51	24,000	7,200	1,600	990	3,200
	2-May-94		17.81		79.29	10,000	2,200	440	470	1,200
	1-Jul-94		18.13		78.97	8,200	2,000	370	350	930

**Table 1. Summary of Groundwater Elevation Data and Analytical Laboratory Results for
Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet) ¹	Depth to Water (feet) ²	Product Thickness (feet)	Groundwater Elevation (feet) ¹	EPA Methods 8015 and 8020 Concentration (µg/L)					
						TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes	
MW-5	20-Sep-94		21.13		75.97	7,200	2,000	360	380	1,000	
	6-Dec-94		18.36		78.74	9,000	2,300	400	440	1,100	
	10-Mar-95		15.25		81.85	Well Not Sampled					
	15-Mar-95		14.89		82.21	15,000	4,400	600	770	2,660	
	16-Jun-95		14.68		82.42	19,000	5,600	490	890	2,300	
	5-Feb-92	100.48	20.93		79.55	78,000	7,900	5,000	2,900	1,800	
	11-Sep-92		20.27		80.21	49,000	4,700	400	1,400	4,100	
	22-Dec-92		19.99		80.49	34,000	8,600	340	2,200	4,800	
	3-Mar-93		16.49		83.99	22,000	7,500	640	1,300	3,400	
	23-Jun-93	96.73	17.02		79.71	15,000	5,800	120	1,100	2,100	
	30-Sep-93		18.25		78.48	25,000	7,600	410	1,000	4,400	
	6-Feb-94		18.26		78.47	23,000	6,000	180	2,000	5,900	
	2-May-94		17.50		79.23	8,000	1,300	29	440	770	
	1-Jul-94		17.79		78.94	10,000	1,700	97	600	1,400	
	duplicate	20-Sep-94		20.77		75.96	8,400	1,600	54	650	1,400
		20-Sep-94					9,300	1,700	56	670	1,600
5-Dec-94			18.02		78.71	10,000	1,800	<50	620	1,400	
10-Mar-95			14.93		81.80	Well Not Sampled					
15-Mar-95			14.70		82.03	5,300	1,100	11	180	320	
16-Jun-95		14.82		81.91	5,300	1,400	11	180	310		
MW-6	5-Feb-92	100.97	21.29		79.68	51,000	5,400	3,500	3,600	10,000	
	11-Sep-92		20.56		80.41	24,000	2,500	830	1,400	2,300	
	22-Dec-92		20.31		80.66	23,000	5,100	630	2,000	3,100	
	3-Mar-93		16.83		84.14	18,000	4,400	820	1,400	2,400	
	23-Jun-93	97.09	17.30		79.79	18,000	4,600	850	2,700	3,400	
	30-Sep-93		19.05	0.03	78.07	Sample Not Analyzed					
	6-Feb-94		18.55		78.54	20,000	4,600	690	2,100	2,500	
	2-May-94		17.74		79.35	5,300	930	54	610	240	
	1-Jul-94		18.09		79.00	10,000	1,500	160	850	690	
	20-Sep-94		21.05		76.04	11,000	2,000	140	1,200	760	
	6-Dec-94		18.33		78.76	8,600	1,300	87	980	610	

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Groundwater Samples Collected at Former E-Z Serve Station # 100877
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Well I.D.	Date Sampled	Well Elevation (feet) ¹	Depth to Water (feet) ²	Product Thickness (feet)	Groundwater Elevation (feet) ¹	EPA Methods 8015 and 8020 Concentration (µg/L)				
						TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes
MW-7	10-Mar-95	97.44	15.35		81.74	Well Not Sampled				
	15-Mar-95		14.91		82.18	9,800	1,600	110	1,000	1,000
	16-Jun-95		15.11		81.98	9,200	1,100	78	1,000	550
	23-Jun-93		17.87		79.57	29,000	4,200	71	4,400	5,600
	30-Sep-93		18.94		78.50	30,000	3,200	71	2,800	3,400
	6-Feb-94		19.11	0.06	78.39	Sample Not Analyzed				
	2-May-94		18.11		79.33	5,700	630	13	660	400
	1-Jul-94		18.72		78.72	3,100	180	99	160	520
	20-Sep-94		21.41		76.03	6,100	540	6	750	730
	5-Dec-94		18.66		78.78	3,700	280	<10	430	350
	duplicate 5-Dec-94					3,900	310	<10	540	540
	10-Mar-95		15.72		81.72	Well Not Sampled				
	14-Mar-95		15.23		82.21	1,900	290	4	26	296
duplicate 14-Mar-95				1,000	330	5	30	339		
duplicate 15-Jun-95	15.17		82.27	5,800	380	5	360	540		
duplicate 15-Jun-95				4,800	330	<2.5	320	470		
MW-8	23-Jun-93	97.61	17.64		79.97	350	43	9	35	67
	30-Sep-93		18.85		78.76	2,700	190	340	170	720
	6-Feb-94		18.91		78.70	<100	<1	1	1	2
	2-May-94		18.11		79.50	<100	<1	3	<1	7
	1-Jul-94		18.43		79.18	300	18	48	19	37
	20-Sep-94		21.43		76.18	<100	<1	<1	<1	<1
	5-Dec-94		18.72		78.89	<50	<0.5	<0.5	<0.5	<0.5
	10-Mar-95		18.69		78.92	Well Not Sampled				
	14-Mar-95		14.83		82.78	<50	<0.5	<0.5	<0.5	1
	15-Jun-95		14.92		82.69	<50	<0.5	<0.5	<0.5	<0.5
MW-9	23-Jun-93	95.41	15.94		79.47	45,000	14,000	1,200	2,800	12,000
	30-Sep-93		17.05		78.36	86,000	22,000	1,100	3,300	15,000
	6-Feb-94		17.07		78.34	43,000	10,000	460	2,100	7,500
	2-May-94		16.24		79.17	17,000	5,400	270	1,300	4,700

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Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet) ¹	Depth to Water (feet) ²	Product Thickness (feet)	Groundwater Elevation (feet) ¹	EPA Methods 8015 and 8020 Concentration (µg/L)					
						TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes	
MW-10	1-Jul-94	97.11	16.59		78.82	10,000	2,100	120	450	1,300	
	20-Sep-94		19.61		75.80	7,500	2,200	97	400	1,200	
	5-Dec-94		16.85		78.56	10,000	2,700	130	530	1,600	
	10-Mar-95		NR				Well Not Sampled				
	14-Mar-95		14.18		81.23	18,000	5,900	270	1,200	3,680	
	15-Jun-95		14.09		81.32	12,000	2,500	130	670	1,800	
	23-Jun-93		17.39		79.72	35,000	980	640	3,500	12,000	
	30-Sep-93		18.58		78.53	4,000	230	12	100	680	
	6-Feb-94		18.61		78.50	2,000	69	12	220	120	
	2-May-94		17.83		79.28	710	16	6	85	62	
	1-Jul-94		18.17		78.94	2,000	52	43	120	210	
	20-Sep-94		21.15		75.96	2,800	34	16	270	560	
	5-Dec-94		18.43		78.68	2,700	30	13	260	430	
	10-Mar-95		15.37		81.74		Well Not Sampled				
	14-Mar-95		15.93		81.18	1,400	18	6	200	239	
15-Jun-95	15.97		81.14	1,600	14	4	140	98			
MW-11	10-Feb-95	92.68	11.80		80.88	7,000	140	22	600	1,000	
	10-Mar-95		11.58		81.10		Well Not Sampled				
	14-Mar-95		13.96		78.72	6,000	200	17	750	1,276	
	15-Jun-95		13.84		78.84	13,000	450	63	1,600	2,200	
MW-12	10-Feb-95	99.03	16.30		82.73	<50	<0.5	<0.5	<0.5	<0.5	
	10-Mar-95		16.37		82.66		Well Not Sampled				
	14-Mar-95		15.69		83.34	<50	<0.5	<0.5	<0.5	0.9	
	15-Jun-95		15.55		83.48	<50	<0.5	<0.5	<0.5	<0.5	
MW-13	10-Feb-95	96.80	14.45		82.35	<50	<0.5	<0.5	<0.5	<0.5	
	10-Mar-95		14.30		82.50		Well Not Sampled				
	14-Mar-95		15.81		80.99	<50	<0.5	<0.5	<0.5	1	
	15-Jun-95		15.79		81.01	<50	<0.5	<0.5	<0.5	<0.5	

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Groundwater Samples Collected at Former E-Z Serve Station # 100877
525 West A Street, Hayward, California**

Well I.D.	Date Sampled	Well Elevation (feet) ¹	Depth to Water (feet) ²	Product Thickness (feet)	Groundwater Elevation (feet) ¹	EPA Methods 8015 and 8020 Concentration (µg/L)				
						TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes
						MW-14 duplicate	10-Feb-95	99.01	16.28	
	10-Feb-95					12,000	48	<10	800	2,300
	10-Mar-95		16.33		82.68		Well Not Sampled			
	14-Mar-95		14.87		84.14	1,400	6	2	36	298
	15-Jun-95		14.72		84.29	660	8	<0.5	6	26
QA/QC										
Field Blank	20-Sep-94					<100	<1	<1	<1	<1
Trip Blank	5-Dec-94					<50	<0.5	<0.5	<0.5	<0.5
Field Blank	5-Dec-94					<50	<0.5	<0.5	<0.5	<0.5
Trip Blank	10-Feb-95					<50	<0.5	<0.5	<0.5	<0.5
Field Blank	10-Feb-95					<50	<0.5	<0.5	<0.5	<0.5
Trip Blank	14-Mar-95					<50	<0.5	<0.5	<0.5	<0.5
Field Blank	14-Mar-95					<50	<0.5	<0.5	<0.5	<0.5
Trip Blank	15-Jun-95					<50	<0.5	<0.5	<0.5	<0.5
Field Blank	15-Jun-95					<50	<0.5	<0.5	<0.5	<0.5

¹Relative to lower mean sea level.

²Below ground surface.

³Total Petroleum Hydrocarbons as gasoline.

ATTACHMENT A
SAMPLING AND ANALYSIS PLAN
FIELD NOTES
LABORATORY DATA SHEETS
CHAIN-OF-CUSTODY

**EZ-SERVE MANAGEMENT COMPANY
QUARTERLY GROUNDWATER MONITORING PROGRAM
SAMPLING AND ANALYSIS PLAN**

The following sections describe the procedures and protocols followed during this quarterly groundwater monitoring event at the subject site.

Depth-to-Water Measurements

Prior to sampling the groundwater monitoring wells, the wells were opened to the atmosphere for approximately one-quarter of one hour, to allow the static water level to adjust to the open barometric pressure. The depth-to-groundwater was then be measured, using an oil-water interface probe. The interface probe was lowered slowly until free product or water was encountered. At this point, the mark on the interface probe wire was read to the nearest 0.01 feet at the permanent reference point on the top of the well casing. If free product was encountered the probe was lowered until water was encountered. The difference between the two depths corresponds to the thickness of the free product. The total depth of the well was then measured using the same probe. A second check for free-product on top of the water column was made using a disposable bailer. The disposable bailer was lowered into the water to approximately one-half the bailer length. The bailer was then removed from the well and a check for the presence of free petroleum product or a product sheen was made.

In the event that a dedicated bailer or purge tubing existed in the well, the dedicated equipment was removed prior to sampling, and temporarily stored in a clean, plastic garbage bag.

The depth-to-water and bottom of well measurements, and the presence or absence of free product, was recorded on the field sampling form. In addition, comments regarding the condition of the well and/or containment box were also be noted on the field sampling sheet at this time. Wells observed to contain a product sheen or free product on top of the water column were not be purged or sampled.

Groundwater Monitoring Well Purging

The depth-to-water and bottom of well measurements were used to calculate the volume of water contained in one well volume. The following values were used to calculate the volume of water contained in the well casing and filter pack surrounding the well.

<u>Well Diameter</u>	<u>Gallons/linear foot</u>
2-inch	0.16
4-inch	0.65
8-inch filter pack	0.78
10-inch filter pack	1.21

The minimum purge volume was calculated to be three times the total well volume. Once the minimum purge volume has been calculated purging was started. Purging was conducted using

either a centrifugal pump connected to a dedicated Wattera pump or a pre-cleaned submersible pump, depending on depth to water and the amount of sediment expected to be contained in the well. Temperature, pH, and specific conductance of the purge water was monitored during the purging process at regular intervals. Purging was ceased when the monitored parameters stabilized (three consecutive readings not varying by more than 10-percent) and a minimum of three well volumes had been purged.

In the event a well dried out during purging, the well was allowed to recover to 80-percent of its original well volume, or for 24-hours, whichever was less, prior to collecting a groundwater sample.

Groundwater Monitoring Well Sampling

Once the well was successfully purged a groundwater sample was collected using a disposable polyethylene bailer connected to clean nylon or polyethylene cord. The bailer was lowered slowly into the water to avoid agitation of the sample. A portion of the sample was placed in a container and the monitoring parameters were recorded. The remaining portion of the sample was transferred from the bailer to the appropriate, laboratory supplied sampling bottles, using a bottom emptying device. The sampling containers were filled completely, leaving a positive meniscus, so no airspace remained in the vial after sealing.

The sample bottles were labeled with the well identification (i.e. MW-1, MW-2, etc), date and time of the sample collection, the field technicians initials, job number, analyses to be performed, and other relevant information. Samples were immediately placed in an insulated cooler containing crushed ice. The samples were maintained at approximately 3°C until reaching the analytical laboratory.

Laboratory Analysis

Samples were shipped, under appropriate chain-of-custody procedures, to SPL Laboratory in Houston. SPL Laboratory is certified by the State of California for performing the requested analyses. Samples were shipped via Federal Express to minimize the time the samples remained in the cooler. Samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene, and xylene isomers (BTEX), following Environmental Protection Agency Methods 5030, 8015 modified, and 8020. Samples were analyzed on a standard two week turn-around time.

QA/QC Procedures

Instrument calibration. Equipment used to monitor groundwater parameters was calibrated prior to beginning purging at the site. Monitoring equipment was calibrated following the manufactures instructions using laboratory grade standards.

Equipment Decontamination. Non-disposable and non-dedicated sampling equipment was cleaned prior to use and between uses in each well. Downhole equipment was cleaned by

washing the equipment using a non-phosphate soap solution and rinsing the equipment twice with distilled water.

Duplicate. One duplicate sample was collected from the site from a randomly selected monitoring well. The duplicate sample was collected at the same time as the original sample and was treated in the same manner as the original sample. The duplicate sample was submitted to the laboratory for TPHg and BTEX analysis.

Trip Blank. A trip blank was prepared by the analytical laboratory and accompanied the sample bottles throughout the shipping and sampling events. The trip blank was submitted to the laboratory for TPHg and BTEX analysis.

Field Blank. One field blank was collected in the field by the field technician. The field blank was prepared, prior to sampling, by filling three 40-ml VOAs with distilled water. The field blank was submitted to the laboratory for TPHg and BTEX analysis.

**BROWN & CALDWELL
WELL INFORMATION DATA**

JOB NAME: EZ - Serve, Hayward

DATE: 6-15-95

B&C PERSONNEL: M. STINAR

JOB No: 1564-04

WEATHER: OVERCAST, DRIZZLE

LOCK TYPE: #2402

INSTRUMENT: ORS / OIL / WATER INTERFACE

LID TYPE: Christie ^{9/16 15/16}

WELL ID.	SWL	TD	DIA	TIME	COMMENTS
MW-1	14.56	32.10'	4"x 10"	0620	
MW-1A	15.63	28.40'	2"x 8"	0610	.03 FLOATING PRODUCT
MW-2	16.79	32.30'	4"x 10"	0623	
MW-3	16.58	32.10'	4"x 10"	0631	
MW-4	14.68	32.11'	4"x 10"	0627	
MW-5	14.82	32.48'	4"x 10"	0616	
MW-6	15.11	32.10'	4"x 10"	0613	
MW-7	15.17	30.06'	2"x 8"	0635	
MW-8	14.92	32.15'	2"x 8"	0639	
MW-9	14.09	31.60'	2"x 8"	0628	
MW-10	15.97	31.80'	2"x 8"	0642	
MW-11	13.84	25.00'	2"x 8"	0646	
MW-12	15.55	30.00'	2"x 8"	0658	
MW-13	15.79	30.00'	2"x 8"	0650	
MW-14	14.72	30.00'	2"x 8"	0655	

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-16-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: MI STWAR
 Weather Conditions: _____

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 4"x 10"

- a. Depth to water (ft) = 14.56'
- b. Total Well Depth = 32.10 ft.
- c. Length of Water Column = 17.54' (b. - a.)
- d. Casing Volume = 11.4 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10" x 10'
- f. Filter pack volume = 12.1 (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 23.5 gal (d. + f.)

<input type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input checked="" type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input checked="" type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRAP + PUMP / WATERAB
- b. Required Purge Volume (@ 23.5 gallons per well volume) = 70.0 gal
- c. Field Testing; Equipment Used BECKMAN pH + Temp VWR (OWD)
- d. Pump Rate 2.5 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T ^o c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
<u>5</u>	<u>0830</u>	<u>19.7</u>	<u>7.20</u>	<u>865</u>		<u>BLOODY, TURBID</u>		
<u>25</u>	<u>0838</u>	<u>19.6</u>	<u>7.12</u>	<u>910</u>		<u>CLEARING</u>		<u>25'</u>
<u>50</u>	<u>0848</u>	<u>19.5</u>	<u>7.11</u>	<u>913</u>		<u>CLEARING</u>		<u>↓</u>
<u>72.5</u>	<u>0858</u>	<u>19.4</u>	<u>7.13</u>	<u>916</u>		<u>CLEAR</u>		
<u>SAMPLE</u>	<u>0910</u>	<u>19.2</u>	<u>7.15</u>	<u>915</u>		<u>CLEAR</u>		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

Labelled 100877-MW-1

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: PARTLY CLOUDY, WINDY

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 15.63' 103 FREE PRODUCT
- b. Total Well Depth = 28.40 ft.
- c. Length of Water Column = 12.77' (b. - a.)
- d. Casing Volume = 2.04 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 9.8 gal (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERRA
- b. Required Purge Volume (@ 9.8 gallons per well volume) = 29.5 gals
- c. Field Testing; Equipment Used BECKMAN pH + TEMP VWR COND
- d. Pump Rate 1.0 gal
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min) _____

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
6	1539	19.6	7.21	1,350		CLOUDY, FUEL OADR		
20	1553	19.4	7.11	1,310		CLEAR		24.0
30	1604	19.3	7.03	1,307		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailor Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS Purge Only 1

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-16-95

Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA

Samplers Name: M. STINAR

Weather Conditions: _____

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 16.79'
- b. Total Well Depth = 32.30 ft.
- c. Length of Water Column = 15.51' (b. - a.)
- d. Casing Volume = 10.0 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10" x 10'
- f. Filter pack volume = 12.1 gal (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 22.1 gal (d. + f.)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 4"x10"

<input type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input checked="" type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input checked="" type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERAA
- b. Required Purge Volume (@ 22.1 gallons per well volume) = 66.5 gal
- c. Field Testing; Equipment Used BECKMAN pH + Temp VWR COND
- d. Pump Rate 2.0 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	0730	19.4	6.79	1,185		DARK GREENISH FULLODOR		
32	0741	19.6	6.82	1,205		CLEARING		25'
48	0749	19.6	6.90	1,210		CLEAR		↓
68	0759	19.5	6.93	1,215		CLEAR		
SAMPLE	0809	19.3	6.95	1,217		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-16
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STUAR
 Weather Conditions: _____

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 4"x 10"

- a. Depth to water (ft) = 16.58'
- b. Total Well Depth = 32.10 ft.
- c. Length of Water Column = 15.52' (b. - a.)
- d. Casing Volume = 10.0 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10" x 10'
- f. Filter pack volume = 12.1 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 22.1 gal (d. + f.)

<input type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input checked="" type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input checked="" type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERPAA
- b. Required Purge Volume (@ 22.1 gallons per well volume) = 66.5
- c. Field Testing; Equipment Used BECKMAN pH + TEMP, UVR COND
- d. Pump Rate 2.0 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T ^o c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	1257	19.7	6.37	980		CLEAR, FULL ODOR		28'
30	1308	19.3	6.71	1090		CLEAR		↓
50	1319	19.3	6.73	1077		CLEAR		
68	1328	19.4	6.77	1072		CLEAR		
Sample	1335	19.4	6.76	1070		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-16-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: _____

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 14.68'
- b. Total Well Depth = 32.11 ft.
- c. Length of Water Column = 17.43' (b. - a.)
- d. Casing Volume = 11.3 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10" x 10'
- f. Filter pack volume = 12.1 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 23.4 (d. + f.)

Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Diameter 4" x 10"

<input type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input checked="" type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input checked="" type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERPUMP
- b. Required Purge Volume (@ 23.4 gallons per well volume) = 70.2 gal
- c. Field Testing; Equipment Used BECKMAN pH + TEMP UVR POND
- d. Pump Rate 1.5 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min) Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
15	1037	19.7	6.71	1,014		CLEAR		27'
45	1057	19.6	6.73	1,020		CLEAR		↓
60	1107	19.6	6.75	1,025		CLEAR		
72	1115	19.5	6.74	1,021		CLEAR		
SAMPLE	1120	19.4	6.77	1,034		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877-MW-4

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-16-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: _____

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 14.62'
- b. Total Well Depth = 32.48 ft.
- c. Length of Water Column = 17.66' (b. - a.)
- d. Casing Volume = 11.4 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10" x 10'
- f. Filter pack volume = 12.1 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 23.5 gal (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 4"x.10"

<input type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input checked="" type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input checked="" type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERAA
- b. Required Purge Volume (@ 23.5 gallons per well volume) = 70.7 gal
- c. Field Testing; Equipment Used BECKMAN pH + TEMP (WR LOW)
- d. Pump Rate 2.0 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
20	0940	19.6	6.47	1,330		GREAS, FUEL ODOOR		28'
40	0950	19.5	6.51	1,310		CLEAR		↓
60	1000	19.4	6.53	1,312		CLEAR		
72	1007	19.4	6.54	1,320		CLEAR		
SAMPLE	1014	19.5	6.49	1,341		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877-MW-5

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-16-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: _____

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 15.11'
- b. Total Well Depth = 32.10 ft.
- c. Length of Water Column = 16.99 (b. - a.)
- d. Casing Volume = 11.0 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10' x 10'
- f. Filter pack volume = 12.1 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 23.1 gal (d. + f.)

Water Table Elev. _____
 Tape Corr. (TC) _____
 Well Diameter 4"x10"

<input type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input checked="" type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input checked="" type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH Pump / WATERAA
- b. Required Purge Volume (@ 23.1 gallons per well volume) = 69.4 gal
- c. Field Testing; Equipment Used BECKMAN pH & TEMP, VWR LOAD
- d. Pump Rate 1.5 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min) Fast (90% < 10 min)

Volume Removed (gal)	Time	T ^o c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
6	1145	19.7	6.64	1,170		CLOUDY, FUEL ODOOR		25'
30	1200	19.6	6.67	1,210		CLEAR		↓
50	1214	19.4	6.65	1,215		CLEAR		
71	1228	19.5	6.68	1,218		CLEAR		
SAMPLE	1237	19.4	6.63	1,220		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877 MW-6

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STIWAR
 Weather Conditions: OVERCAST, COOL

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 15.17'
- b. Total Well Depth = 30.06 ft.
- c. Length of Water Column = 14.89' (b. - a.)
- d. Casing Volume = 2.39 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 10.1 gal (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x 8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP/WATERBAR
- b. Required Purge Volume (@ 10.1 gallons per well volume) = 30.3
- c. Field Testing; Equipment Used BECKMAN pH + TEMP UWR COND
- d. Pump Rate 1.0
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min) _____

Volume Removed (gal)	Time	T ^o c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	0959	19.6	6.71	1,340		BROWN SLITS		
20	1010	19.3	6.68	1,270		SAME		25'
32	1013	19.3	6.67	1,279		CLEARING		
Sample	1019	19.3	6.67	1,282		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELED 100877 MW-7 TOOK DUPLICATE MW-7D
FIELD BAKR MW-7FB

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: OVER CAST

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 14.92'
- b. Total Well Depth = 32.15 ft.
- c. Length of Water Column = 17.22' (b. - a.)
- d. Casing Volume = 2.7 gal (c. x [gal/ft casing])
- e. Length of filter pack = 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 10.5 gal (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x 8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERER
- b. Required Purge Volume (@ 10.5 gallons per well volume) = 31.6 gal
- c. Field Testing; Equipment Used BECKMAN pH + TEMP UVR COND
- d. Pump Rate 1.5 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T ^o c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	0722	19.4	6.61	1,190		CLOUDY, SILTS		
20	0728	19.3	6.53	1,195		CLEARING		28'
33	0737	19.4	6.51	1,196		CLEAR		↓
SAMPLE	0741	19.4	6.52	1,198		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877-MW-8

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: CLEARING, COOL

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x8"

- a. Depth to water (ft) = 14.09'
- b. Total Well Depth = 31.60 ft.
- c. Length of Water Column = 17.51' (b. - a.)
- d. Casing Volume = 2.80 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 10.6 gal (d. + f.)

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERRA
- b. Required Purge Volume (@ 10.6 gallons per well volume) = 31.8 gal
- c. Field Testing; Equipment Used BECKMAN pH + TEMP, VWR COND
- d. Pump Rate 1.25 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	0856	19.7	6.84	1,370		BROWNISH SILTS		
20	0904	19.3	6.73	1,410		CLEARING		26'
33	0916	19.2	6.69	1,413		CLEARING		↓
SAMPLE	0924	19.2	6.67	1,417		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877 - MW-9

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STIWAR
 Weather Conditions: PARTLY CLOUDY, DRIZZLE

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 15.97'
- b. Total Well Depth = 31.80 ft.
- c. Length of Water Column = 15.83' (b. - a.)
- d. Casing Volume = 2.53 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 10.3 gal (d. + f.)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x 8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP/WATERRA
- b. Required Purge Volume (@ 10.3 gallons per well volume) = 30.9 gal
- c. Field Testing; Equipment Used BECKMAN pH + TEMP UWR COND
- d. Pump Rate 1.5 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	0805	19.7	6.30	1,170		Color-green, FUEL odor		
20	0812	19.5	6.36	1,177		SAME		26'
32	0820	19.4	6.37	1,178		CLEARING		↓
Sample	0825	19.5	6.39	1,177		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Baller Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877 MW-10

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: PARTLY CLOUDY, COOL

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 13.84'
- b. Total Well Depth = 25.00 ft.
- c. Length of Water Column = 11.16' (b. - a.)
- d. Casing Volume = 1.78 GAL (c. x [gal/ft casing])
- e. Length of filter pack = 6" x 10'
- f. Filter pack volume = 7.8 GAL (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 9.5 GAL (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x 8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERBAR
- b. Required Purge Volume (@ 9.5 gallons per well volume) = 28.7 gal
- c. Field Testing; Equipment Used BECKMAN pH + COND UVR COND
- d. Pump Rate 1.5 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°C	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
9	1451	19.8	6.19	1,271		GREENISH, FUEL OIL OR SILTS		
18	1457	19.7	6.37	1,284		CLEARING		20'
27	1503	19.8	6.39	1,286		CLEARING		
30	1506	19.8	6.41	1,285		CLEAR		
Sample	1512	19.3	6.45	1,257		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailor Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS
LAB ELLED 100877 MW-11

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: OVERCAST, COOL

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 15.55'
- b. Total Well Depth = 30.00 ft.
- c. Length of Water Column = 14.45' (b. - a.)
- d. Casing Volume = 2.39 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. **TOTAL WELL VOLUME** = 10.1 gal (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP / WATERERA
- b. Required Purge Volume (@ 10.1 gallons per well volume) = 30.3 gal
- c. Field Testing; Equipment Used BECKMAN pH + Temp VWR COND
- d. Pump Rate 1.0 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	1210	19.5	6.71	1,100		BROWN SLITS		
20	1221	19.2	6.68	1,090		CLEAR w/ b		25'
32	1233	19.3	6.67	1,092		CLEAR		
Sample	1241	19.3	6.63	1,093		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877-MW-12

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: MI STUAR
 Weather Conditions: PARTLY Cloudy, Windy

1. WATER LEVEL DATA: (from TOC)

TOC Elevation (from LS) _____

- a. Depth to water (ft) = 15.79'
- b. Total Well Depth = 30.00 ft.
- c. Length of Water Column = 14.21' (b. - a.)
- d. Casing Volume = 2.2 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 10.0 gal (d. + f.)

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x 8"

<input checked="" type="checkbox"/>	2-in. casing	= 0.16 gal/ft
<input type="checkbox"/>	4-in. casing	= 0.65 gal/ft
<input type="checkbox"/>	6-in. casing	= 1.47 gal/ft
<input type="checkbox"/>	6.5-in. casing	= 1.70 gal/ft
<input type="checkbox"/>	8-in. casing	= 2.60 gal/ft
<input type="checkbox"/>	10-in. casing	= 4.10 gal/ft
<input type="checkbox"/>	12-in. casing	= 5.00 gal/ft
<input checked="" type="checkbox"/>	8-in. hole filter pack	= 0.78 gal/ft
<input type="checkbox"/>	10-in. hole filter pack	= 1.21 gal/ft
<input type="checkbox"/>	12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP/WATERRA
- b. Required Purge Volume (@ 10.0 gallons per well volume) = 30.0 GALS
- c. Field Testing; Equipment Used BECKMAN pH + TEMP VWR COND
- d. Pump Rate 1.0 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T ^o c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
7.0	1335	19.6	6.63	1,050		BROWN SILTS		
19.0	1347	19.5	7.17	1,060		SAME		
31.0	1351	19.6	7.21	1,062		SAME		
SAMPLE	1401	19.5	7.27	1,066		CLEARING		

3. SAMPLE COLLECTION: Method Disposable Bailor Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS

LABELLED 100877 MW-13

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ - Serve, Hayward Job No.: 1564-04 Date: 6-15-95
 Location: Station No. 100877, 523 "A" Street @ Garden Ave., Hayward, CA
 Samplers Name: M. STINAR
 Weather Conditions: OVERCAST, COOL

1. WATER LEVEL DATA: (from TOC)

- a. Depth to water (ft) = 14.72'
- b. Total Well Depth = 30.00 ft.
- c. Length of Water Column = 15.28' (b. - a.)
- d. Casing Volume = 2.4 gal (c. x [gal/ft casing])
- e. Length of filter pack = 8" x 10'
- f. Filter pack volume = 7.8 gal (e. x [gal/ft filter pack])
- g. TOTAL WELL VOLUME = 10.2 gal (d. + f.)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Diameter 2"x 8"

● 2-in. casing	= 0.16 gal/ft
4-in. casing	= 0.65 gal/ft
6-in. casing	= 1.47 gal/ft
6.5-in. casing	= 1.70 gal/ft
8-in. casing	= 2.60 gal/ft
10-in. casing	= 4.10 gal/ft
12-in. casing	= 5.00 gal/ft
● 8-in. hole filter pack	= 0.78 gal/ft
10-in. hole filter pack	= 1.21 gal/ft
12-in. hole filter pack	= 1.47 gal/ft

2. WELL PURGING DATA:

- a. Purge Method TRASH PUMP + WATERRA
- b. Required Purge Volume (@ 10.2 gallons per well volume) = 30.6 gal
- c. Field Testing; Equipment Used BECKMAN pH + TEMP VWR COND.
- d. Pump Rate 1.0 gpm
- e. Method of GW Disposal 55 gallon drum
- f. Recovery Rate: Slow (90% > 60min), Medium (90% 30-60 min), Fast (90% < 10 min)

Volume Removed (gal)	Time	T°c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/Description	SWL	Pump Placement
10	1046	19.5	7.02	850		BROWN SILTS		
20	1057	19.3	6.97	861		SAME		25'
32	1110	19.4	6.93	862		CLEARING		↓
SAMPLE	1121	19.3	6.91	865		CLEAR		

3. SAMPLE COLLECTION: Method Disposable Bailer Container 3 x 40 ml VOA Preservation HCL
 Analysis TPH (gas) 8015, BTEX 8020

COMMENTS, REMARKS
LABELLED 100877 - MW-14



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: 95 - 06 - 721

Approved for release by:


M. Scott Sample, Laboratory Director

Date: 7/19/95


Siok Hong Chen, Project Manager

Date: 7/19/95



****SUMMARY REPORT****

07/14/95

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Company: EZ Serve Inc.
Site: Hayward, CA
Project No: 1564-04
Project: EZ Serve #100877

ANALYTICAL DATA
NOTE: ND - Not Detected

SPL ID MATRIX	CLIENT ID DATE SAMPLED	BENZENE PQL	TOLUENE PQL	ETHYLBENZ. PQL	XYLENE PQL	TPH-G PQL	TPH-D	LEAD	MTBE
9506721-01 WATER	100877 MW-1 06/16/95 09:10:00	530 5µg/L	12 5µg/L	90 5µg/L	160 5µg/L	2000 500µg/L			
9506721-02 WATER	100877 MW-2 06/16/95 08:09:00	4400 100µg/L	270 100µg/L	1600 100µg/L	4700 100µg/L	27000 10000µg/L			
9506721-03 WATER	100877 MW-3 06/16/95 13:35:00	520 10µg/L	20 10µg/L	280 10µg/L	430 10µg/L	3300 1000µg/L			
9506721-04 WATER	100877 MW-4 06/16/95 11:20:00	5600 50µg/L	490 50µg/L	890 50µg/L	2300 50µg/L	19000 5000µg/L			
9506721-05 WATER	100877 MW-5 06/16/95 10:14:00	1400 2.5µg/L	11 2.5µg/L	180 2.5µg/L	310 2.5µg/L	5300 2500µg/L			
9506721-06 WATER	100877 MW-6 06/16/95 12:37:00	1100 25µg/L	78 25µg/L	1000 25µg/L	550 25µg/L	9200 2500µg/L			
9506721-07 WATER	100877 MW-7 06/15/95 10:19:00	380 2.5µg/L	5 2.5µg/L	360 2.5µg/L	540 2.5µg/L	5800 250µg/L			
9506721-08 WATER	100877 MW-8 06/15/95 07:41:00	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 50µg/L			
9506721-09 WATER	100877 MW-9 06/15/95 09:24:00	2500 50µg/L	130 50µg/L	670 50µg/L	1800 50µg/L	12000 5000µg/L			
9506721-10 WATER	100877 MW-10 06/15/95 08:25:00	14 0.5µg/L	4 0.5µg/L	140 0.5µg/L	98 0.5µg/L	1600 250µg/L			
9506721-11 WATER	100877 MW-11 06/15/95 15:12:00	450 25µg/L	63 25µg/L	1600 25µg/L	2200 25µg/L	13000 2500µg/L			

BTEX - METHOD 8020***
TPH-G - Modified 8015 - Gasoline *Scott H. [Signature]*



07/14/95

Company: EZ Serve Inc.
Site: Hayward, CA
Project No: 1564-04
Project: EZ Serve #100877

ANALYTICAL DATA
NOTE: ND - Not Detected

SPL ID MATRIX	CLIENT ID DATE SAMPLED	BENZENE PQL	TOLUENE PQL	ETHYLBENZ. PQL	XYLENE PQL	TPH-G PQL	TPH-D	LEAD	MTBE
9506721-12 WATER	100877 MW-12 06/15/95 12:41:00	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 50µg/L			
9506721-13 WATER	100877 MW-13 06/15/95 14:10:00	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 50µg/L			
9506721-14 WATER	100877 MW-14 06/15/95 11:21:00	8 0.5µg/L	ND 0.5µg/L	6 0.5µg/L	26 0.5µg/L	660 50µg/L			
9506721-15 WATER	100877 MW-7D 06/15/95 10:20:00	330 2.5µg/L	ND 2.5µg/L	320 2.5µg/L	470 2.5µg/L	4800 250µg/L			
9506721-16 WATER	100877 MW-7FB 06/15/95 10:21:00	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 50µg/L			
9506721-17 WATER	Trip Blank 05/23/95	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 0.5µg/L	ND 50µg/L			

BTEX - METHOD 8020***

TPH-G - Modified 8015 - Gasoline



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-01

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-1

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/16/95 09:10:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	530	5 P	µg/L
TOLUENE	12	5 P	µg/L
ETHYLBENZENE	90	5 P	µg/L
TOTAL XYLENE	160	5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	792		µg/L

Surrogate

1,4-Difluorobenzene
 4-Bromofluorobenzene

% Recovery
 94
 100

METHOD 8020***

Analyzed by: JZL
 Date: 06/25/95

Petroleum Hydrocarbons - Gasoline

2000 500 P

µg/L

Surrogate

1,4-Difluorobenzene
 4-Bromofluorobenzene

% Recovery
 99
 104

Modified 8015 - Gasoline

Analyzed by: JZL
 Date: 06/25/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903


 SPL, Inc., - Project Manager



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-02

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-2

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/16/95 08:09:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	4400	100 P	µg/L
TOLUENE	270	100 P	µg/L
ETHYLBENZENE	1600	100 P	µg/L
TOTAL XYLENE	4700	100 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	10970		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

97

4-Bromofluorobenzene

102

METHOD 8020***

Analyzed by: JZL

Date: 06/25/95

Petroleum Hydrocarbons - Gasoline

27000

10000 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

99

4-Bromofluorobenzene

107

Modified 8015 - Gasoline

Analyzed by: JZL

Date: 06/25/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-03

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-3

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/16/95 13:35:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	520	10 P	µg/L
TOLUENE	20	10 P	µg/L
ETHYLBENZENE	280	10 P	µg/L
TOTAL XYLENE	430	10 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1250		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

96

4-Bromofluorobenzene

100

METHOD 8020***

Analyzed by: LT

Date: 06/25/95

Petroleum Hydrocarbons - Gasoline

3300

1000 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

97

4-Bromofluorobenzene

100

Modified 8015 - Gasoline

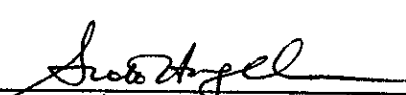
Analyzed by: LT

Date: 06/25/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-04

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-4

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/16/95 11:20:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	5600	50 P	µg/L
TOLUENE	490	50 P	µg/L
ETHYLBENZENE	890	50 P	µg/L
TOTAL XYLENE	2300	50 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	9280		µg/L

Surrogate % Recovery
 1,4-Difluorobenzene 101
 4-Bromofluorobenzene 100
 METHOD 8020***
 Analyzed by: LT
 Date: 06/25/95

Petroleum Hydrocarbons - Gasoline 19000 5000 P µg/L

Surrogate % Recovery
 1,4-Difluorobenzene 100
 4-Bromofluorobenzene 103
 Modified 8015 - Gasoline
 Analyzed by: LT
 Date: 06/25/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-05

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-5

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/16/95 10:14:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1400	2.5 P	µg/L
TOLUENE	11	2.5 P	µg/L
ETHYLBENZENE	180	2.5 P	µg/L
TOTAL XYLENE	310	2.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1901		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

93

4-Bromofluorobenzene

99

METHOD 8020***

Analyzed by: YN

Date: 06/28/95

Petroleum Hydrocarbons - Gasoline

5300

2500 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

97

4-Bromofluorobenzene

101

Modified 8015 - Gasoline

Analyzed by: LT

Date: 06/25/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-06

EZ Serve Inc.
2550 North Loop West, #600
Houston, TX 77292
ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
SITE: Hayward, CA
SAMPLED BY: Brown & Caldwell
SAMPLE ID: 100877 MW-6

PROJECT NO: 1564-04
MATRIX: WATER
DATE SAMPLED: 06/16/95 12:37:00
DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1100	25 P	µg/L
TOLUENE	78	25 P	µg/L
ETHYLBENZENE	1000	25 P	µg/L
TOTAL XYLENE	550	25 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	2728		µg/L

Surrogate % Recovery
1,4-Difluorobenzene 96
4-Bromofluorobenzene 102

METHOD 8020***
Analyzed by: LT
Date: 06/25/95

Petroleum Hydrocarbons - Gasoline 9200 2500 P µg/L

Surrogate % Recovery
1,4-Difluorobenzene 95
4-Bromofluorobenzene 99

Modified 8015 - Gasoline
Analyzed by: LT
Date: 06/25/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-07

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-7

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 10:19:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	380	2.5 P	µg/L
TOLUENE	5	2.5 P	µg/L
ETHYLBENZENE	360	2.5 P	µg/L
TOTAL XYLENE	540	2.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1285		µg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	97		
4-Bromofluorobenzene	114		
METHOD 8020***			
Analyzed by: YN			
Date: 06/28/95			
Petroleum Hydrocarbons - Gasoline	5800	250 P	µg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	91		
4-Bromofluorobenzene	95		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 06/28/95			

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-08

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-8

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 07:41:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	0.5 P	µg/L
TOLUENE	ND	0.5 P	µg/L
ETHYLBENZENE	ND	0.5 P	µg/L
TOTAL XYLENE	ND	0.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		µg/L

Surrogate % Recovery
 1,4-Difluorobenzene 99
 4-Bromofluorobenzene 98
 METHOD 8020***
 Analyzed by: LT
 Date: 06/25/95

Petroleum Hydrocarbons - Gasoline ND 50 P µg/L

Surrogate % Recovery
 1,4-Difluorobenzene 97
 4-Bromofluorobenzene 125
 Modified 8015 - Gasoline
 Analyzed by: LT
 Date: 06/25/95

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-10

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-10

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 08:25:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	14	0.5 P	µg/L
TOLUENE	4	0.5 P	µg/L
ETHYLBENZENE	140	0.5 P	µg/L
TOTAL XYLENE	98	0.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	256		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene
 4-Bromofluorobenzene

99
 134

METHOD 8020***

Analyzed by: YN

Date: 06/28/95

Petroleum Hydrocarbons - Gasoline

1600

250 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene
 4-Bromofluorobenzene

87
 90

Modified 8015 - Gasoline

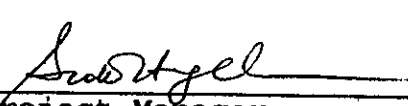
Analyzed by: YN

Date: 06/28/95

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-11

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-11

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 15:12:00
 DATE RECEIVED: 06/17/95

PARAMETER	ANALYTICAL DATA		RESULTS	DETECTION LIMIT	UNITS
BENZENE			450	25 P	µg/L
TOLUENE			63	25 P	µg/L
ETHYLBENZENE			1600	25 P	µg/L
TOTAL XYLENE			2200	25 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS			4313		µg/L
Surrogate		% Recovery			
1,4-Difluorobenzene		98			
4-Bromofluorobenzene		103			
METHOD 8020***					
Analyzed by: LT					
Date: 06/25/95					
Petroleum Hydrocarbons - Gasoline			13000	2500 P	µg/L
Surrogate		% Recovery			
1,4-Difluorobenzene		96			
4-Bromofluorobenzene		101			
Modified 8015 - Gasoline					
Analyzed by: LT					
Date: 06/25/95					

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-12

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-12

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 12:41:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	0.5 P	µg/L
TOLUENE	ND	0.5 P	µg/L
ETHYLBENZENE	ND	0.5 P	µg/L
TOTAL XYLENE	ND	0.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	99

METHOD 8020***
 Analyzed by: LT
 Date: 06/25/95

Petroleum Hydrocarbons - Gasoline	ND	50 P	µg/L
-----------------------------------	----	------	------

Surrogate	% Recovery
1,4-Difluorobenzene	98
4-Bromofluorobenzene	119

Modified 8015 - Gasoline
 Analyzed by: LT
 Date: 06/25/95

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-14

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-14

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 11:21:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	8	0.5 P	µg/L
TOLUENE	ND	0.5 P	µg/L
ETHYLBENZENE	6	0.5 P	µg/L
TOTAL XYLENE	26	0.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	40		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

100

4-Bromofluorobenzene

117

METHOD 8020***

Analyzed by: LT

Date: 06/25/95

Petroleum Hydrocarbons - Gasoline

660

50 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

93

4-Bromofluorobenzene

97

Modified 8015 - Gasoline


Analyzed by: LT

Date: 06/25/95

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-16

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Brown & Caldwell
 SAMPLE ID: 100877 MW-7FB

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 06/15/95 10:21:00
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	0.5 P	µg/L
TOLUENE	ND	0.5 P	µg/L
ETHYLBENZENE	ND	0.5 P	µg/L
TOTAL XYLENE	ND	0.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

99

4-Bromofluorobenzene

97

METHOD 8020***

Analyzed by: LT

Date: 06/25/95

Petroleum Hydrocarbons - Gasoline

ND

50 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

98

4-Bromofluorobenzene

109

Modified 8015 - Gasoline

Analyzed by: LT

Date: 06/25/95

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9506721-17

EZ Serve Inc.
 2550 North Loop West, #600
 Houston, TX 77292
 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877
 SITE: Hayward, CA
 SAMPLED BY: Provided by SPL
 SAMPLE ID: Trip Blank

PROJECT NO: 1564-04
 MATRIX: WATER
 DATE SAMPLED: 05/23/95
 DATE RECEIVED: 06/17/95

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	ND	0.5 P	µg/L
TOLUENE	ND	0.5 P	µg/L
ETHYLBENZENE	ND	0.5 P	µg/L
TOTAL XYLENE	ND	0.5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

100

4-Bromofluorobenzene

101

METHOD 8020***

Analyzed by: RR

Date: 06/24/95

Petroleum Hydrocarbons - Gasoline

ND

50 P

µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

97

4-Bromofluorobenzene

119

Modified 8015 - Gasoline

Analyzed by: RR

Date: 06/24/95

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 17th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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 SPL, Inc., - Project Manager

QUALITY CONTROL

DOCUMENTATION



Matrix: Aqueous
Units: µg/L

Batch Id: HP_S950624212600

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Benzene	ND	50	38	76.0	61 - 123
Toluene	ND	150	130	86.7	62 - 122
EthylBenzene	ND	50	45	90.0	56 - 119
O Xylene	ND	100	91	91.0	32 - 160
M & P Xylene	ND	200	190	95.0	32 - 160

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			Benzene	ND	50	43		86.0	43
Toluene	ND	150	130	86.7	130	86.7	0	26	56 - 134
EthylBenzene	ND	50	45	90.0	46	92.0	2.20	38	61 - 128
O Xylene	ND	100	92	92.0	92	92.0	0	20	40 - 130
M & P Xylene	ND	100	99	99.0	97	97.0	2.04	20	43 - 152

Analyst: JZL

Sequence Date: 06/24/95

SPL ID of sample spiked: 9506645-04A

Sample File ID: SS_753.TX0

Method Blank File ID:

Blank Spike File ID: SS_747.TX0

Matrix Spike File ID: SS_750.TX0

Matrix Spike Duplicate File ID: SS_751.TX0

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = | (<4> - <5>) / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL-Houston Historical Data

(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9506721-09A 9506721-11A 9506721-06A 9506721-08A
 9506717-07A 9506717-06A 9506717-05A 9506717-04A
 9506721-02A 9506732-08A 9506732-10A 9506746-09A
 9506721-01A 9506717-02A 9506717-01A 9506645-05A
 9506645-03A 9506645-04A

Cynthia Schreiner, QC Officer



Matrix: Aqueous
Units: µg/L

Batch Id: HP_S950625130910

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits (**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Benzene	ND	50	37	74.0	61 - 123
Toluene	ND	150	120	80.0	62 - 122
EthylBenzene	ND	50	42	84.0	56 - 119
O Xylene	ND	100	88	88.0	32 - 160
M & P Xylene	ND	200	180	90.0	32 - 160

M A T R I X S P I K E S

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits (***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			Benzene	ND	50	43		86.0	43
Toluene	ND	150	130	86.7	130	86.7	0	26	56 - 134
EthylBenzene	ND	50	47	94.0	47	94.0	0	38	61 - 128
O Xylene	ND	100	90	90.0	91	91.0	1.10	20	40 - 130
M & P Xylene	ND	100	94	94.0	95	95.0	1.06	20	43 - 152

Analyst: LT

Sequence Date: 06/25/95

SPL ID of sample spiked: 9506721-12A

Sample File ID: SS_781.TX0

Method Blank File ID:

Blank Spike File ID: SS_776.TX0

Matrix Spike File ID: SS_778.TX0

Matrix Spike Duplicate File ID: SS_779.TX0

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = [(<4> - <5>) / [(<4> + <5>) x 0.5]] x 100

(**) = Source: SPL-Houston Historical Data

(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9506630-04A 9506653-01A 9506630-09A 9506630-08A
 9506630-07A 9506630-06A 9506630-05A 9506630-03A
 9506630-02A 9506630-01A 9506882-02A 9506721-04A
 9506721-03A 9506721-16A 9506721-14A 9506721-13A
 9506678-04A 9506721-12A

Cynthia Schreiner

Cynthia Schreiner, QC Officer



Matrix: Aqueous
Units: µg/L

Batch Id: HP_S950628073110

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Benzene	ND	50	41	82.0	61 - 123
Toluene	ND	50	44	88.0	62 - 122
EthylBenzene	ND	50	49	98.0	56 - 119
O Xylene	ND	50	48	96.0	32 - 160
M & P Xylene	ND	100	100	100	32 - 160

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			Benzene	ND	20	17	85.0	17	85.0
Toluene	ND	20	17	85.0	17	85.0	0	26	56 - 134
EthylBenzene	ND	20	18	90.0	18	90.0	0	38	61 - 128
O Xylene	ND	20	18	90.0	18	90.0	0	20	40 - 130
M & P Xylene	ND	40	35	87.5	35	87.5	0	20	43 - 152

Analyst: YN

Sequence Date: 06/28/95

SPL ID of sample spiked: 9506942-01A

Sample File ID: SS_895.TX0

Method Blank File ID:

Blank Spike File ID: SS_890.TX0

Matrix Spike File ID: SS_920.TX0

Matrix Spike Duplicate File ID: SS_921.TX0

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = $[(<1> - <2>) / <3>] \times 100$

LCS % Recovery = $(<1> / <3>) \times 100$

Relative Percent Difference = $| (<4> - <5>) / [(<4> + <5>) \times 0.5] \times 100$

(**) = Source: SPL-Houston Historical Data

(***) = Source: SPL-Houston Historical Data

SAMPLES IN BATCH(SPL ID):

9506808-01A 9506809-07A 9506809-06A 9506809-05A
 9506721-15A 9506721-07A 9506721-05A 9506721-10A
 9506867-03A 9506867-02A 9506867-04A 9506868-01A
 9506868-02A 9506868-03A 9506868-06A 9506868-05A
 9506942-01A 9506868-07A

Cynthia Schreiner, QC Officer