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July 26, 1995

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Mr. Brian Cobb

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

11-1564-04/

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

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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

Ween

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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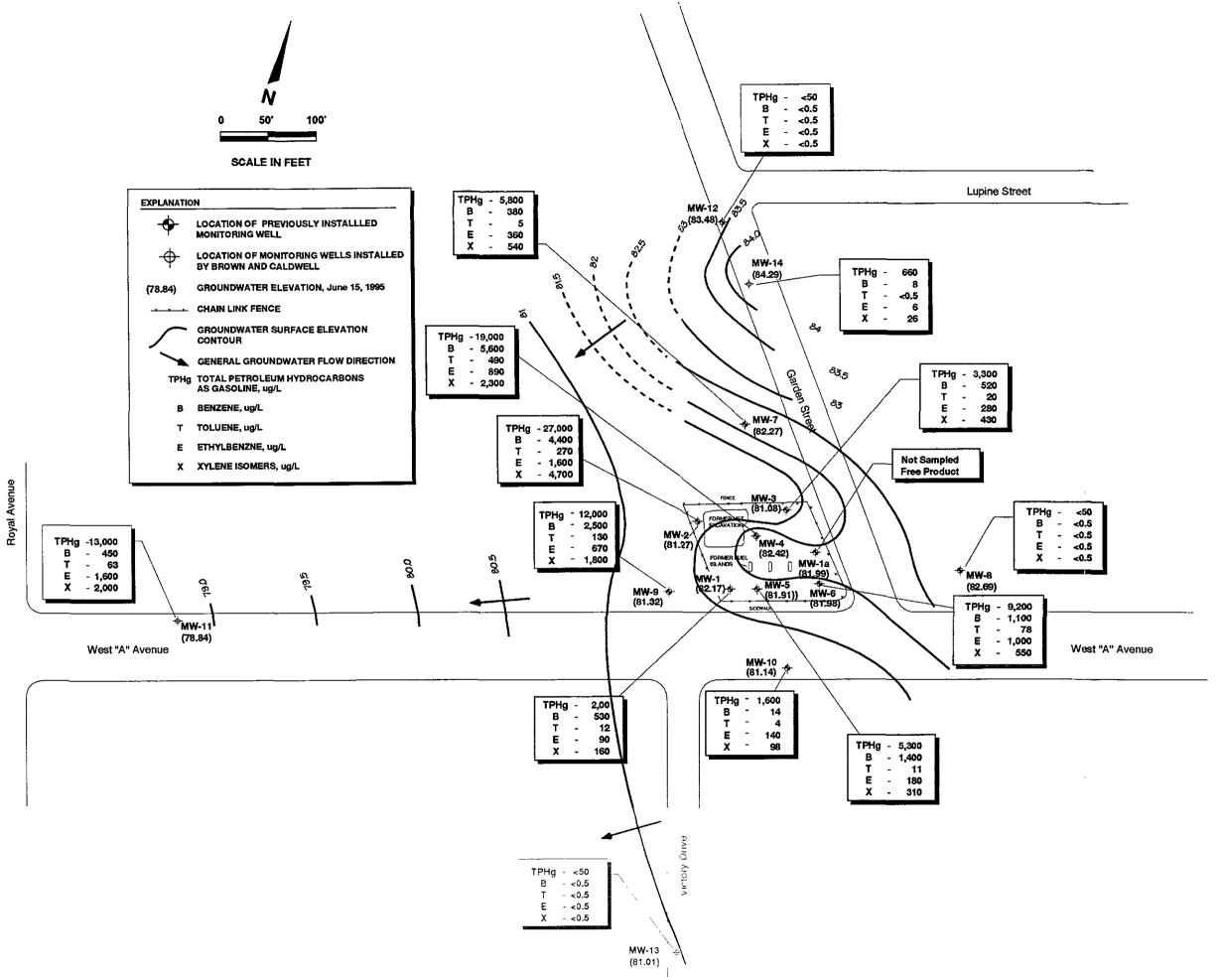


Figure 1 Groundwater Surface Elevation Contour and Petroleum Hydrocarbon Constituent Distribution Map, June 15 1995 Former E-Z Serve Station #100877 4901 525 West A Street, Hayward, California

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	Depth	Product	Groundwater		EPA Met	hods 8015 an	d 8020	
	Date	Elevation	to Water	Thickness	Elevation			entration (μg/		
Well I.D.	Sampled	(feet)1	(feet)2	(feet)	(feet)1	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		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	i	14.43		82.30	290	56	2	12	47
1	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	ļ	Samo	le Not Analyz	red l	
' '	30-Sep-93		•	Not Recorded			_	l Not Sample		
	6-Feb-94		18.89		78.70	8,900	1,700			400
	2-May-94		18.35	0.09	1	-,1		l Not Sample		
	1-Jul-94		18.45		79.14	12,000	1,100	<1		1,100
	20-Sep-94		21.72	0.22	76.09	*-,[l Not Sample		1,100
	5-Dec-94		18.87	0.07	78.79			l Not Sample		
	10-Mar-95		15.83		81.76			l Not Sample		
	14-Mar-95		15.55	0.05	82.09			l Not Sample		
	15-Jun-95		15.63	0.03	81.99	,		Not Sample		
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		8,400
	22-Dec-92	i	21.39		80.06	31,000	9,900	350		4,100
	3-Mar-93		17.75		83.70	17,000	5,100	1,300		1,900
	23-Jun-93	98.06	18.42		79.64	60,000	23,000	1,500		17,000
	30-Sep-93	\. \. \. \. \. \. \. \. \. \. \. \. \. \	19.63		78.43	38,000	12,000	780		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	Depth	Product	Groundwater		EPA Met	hods 8015 an	d 8020	
·	Date	Elevation	to Water	Thickness	Elevation		Conc	entration (μg/	L)	
Well I.D.	Sampled	(feet)1	(feet)2	(feet)	(feet)1	TPHg³	Benzene	Toluene	Ethylbenzene	Xylenes
	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	l j	16.33		81.73	•		l Not Sample		•
	15-Mar-95		16.89		81.17	29,000	5,600			6,300
	16-Jun-95		16.79		81.27	27,000	4,400	270		4,700
MW-3	5-Feb-92	101.50	21.85		79.65	5,900	1,100	<1	<1	<1
	11-Sep-92		21.13	1	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	•	Wel	l Not Sample	i '	
	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	1	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	ţ	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

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525 West A Street, Hayward, California

		Well	Depth	Product	Groundwater		EPA Met	hods 8015 an	d 8020	
	Date	Elevation	to Water	Thickness	Elevation		Conc	entration (µg/		
Well I.D.	Sampled	(feet)1	(feet)2	(feet)	(feet)1	TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes
	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			1,100
	10-Mar-95		15.25		81.85			l Not Sample		
	15-Маг-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
MW-5	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		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
	20-Sep-94		20.77		75.96	8,400	1,600	54	650	1,400
duplicate	20-Sep-94				}	9,300	1,700	56	670	1,600
	5-Dec-94		18.02		78.71	10,000	1,800	<50		1,400
	10-Mar-95		14.93		81.80		Wel	i Not Sample	d	
	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		Samp	le Not Analyz	æd	
	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		760
	6-Dec-94	ľ	18.33		78.76	8,600	1,300	87	980	610

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525 West A Street, Hayward, California

		Well	Depth	Product	Groundwater		EPA Met	hods 8015 and	1 8020	
	Date	Elevation	to Water	Thickness	Elevation	·		entration (μg/		
Well I.D.	Sampled	(feet)1	(feet)2	(feet)	(feet)1	TPHg ³	Benzene		Ethylbenzene	Xylenes
	10-Mar-95		15.35		81.74	_	Wel	l Not Sample	d	•
	15-Mar-95		14.91		82.18	9,800	1,600			1,000
	16-Jun-95		15.11		81.98	9,200	1,100	78	1,000	550
MW-7	23-Jun-93	97.44	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		Samp	le Not Analyz	zed	
	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		We	l Not Sample	ď	
	14-Mar-95		15.23		82.21	1,900	290	4	26	296
duplicate	14-Mar-95					1,000	330	5	30	339
	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		Wel	l Not Sample	1	
	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
3 9 m	30-Sep-93	, A.	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		7,500
+	2-May-94		16.24		79.17	17,000	5,400	270	1,300	4,700

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525 West A Street, Hayward, California

		Well	Depth	Product	Groundwater		EPA Met	hods 8015 and	1 8020	
	Date	Elevation	to Water	Thickness	Elevation		Сопс	entration (μg/		
Well I.D.	Sampled	(feet)1	(feet)2	(feet)	(feet)1	TPHg ³	Benzene	Toluene	Ethylbenzene	Xylenes
	1-Jul-94		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				Wel	l Not Sample	d	
	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
MW-10	23-Jun-93	97.11	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		Wel	l Not Sample	d	
	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		Wel	l Not Sample	1	
	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		Wel	l Not Sample	i	
	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	•	WeI	l Not Sample	i	
	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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525 West A Street, Hayward, California

		Well	Depth	Product	Groundwater		EPA Met	hods 8015 an	d 8020	
	Date	Elevation	to Water	Thickness	Elevation		Сопс	entration (μg/	L)	
Well I.D.	Sampled	(feet)1	(feet)2	(feet)	(feet) ^I	TPHg³	Benzene	Toluene	Ethylbenzene	Xylenes
MW-14	10-Feb-95	99.01	16.28		82.73	12,000	42	8	740	2,100
duplicate	10-Feb-95					12,000	48	< 10	800	2,300
	10-Mar-95		16.33		82.68	•	Wel	l Not Sample	đ	
	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				1	<100	<1	<1	<1	<1
Trip Blank	5-Dec-94		1]	<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				1	<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			<u> </u>		<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.

Well Diameter	Gallons/linear foot
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 it's 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.

<u>Duplicate</u>. 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.

<u>Trip Blank.</u> 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

B&C PERSONNEL: M. STINAR

WEATHER: OVERCAST, DRIZZE

INSTRUMENT: ORS ON WHER INTERFACE

DATE: 6-15-95

JOB No: 1564-04

LOCK TYPE: 2402

LID TYPE: Chairte

14.56	32.10'			
	1	4"x 10"	0620	
	28.40'	2"x 8"	0410	.03 FLOATING PRODUCT
16.79	32.30	4"x 10"	0623	
16.58	32.10'	4"x 10"	0631	
14.68	32.11'	4"x 10"	0427	
14.82	32.48'	4"x 10"	0616	
15.11	32.10'	4"x 10"	0613	
15.17	30.06'	2"x 8"	0435	
14.92	32.15'	2"x 8"	0639	
14.09	31.60'	2"x 8*	0028	
15.97	31.80'	2"x 8"	0642	
13.84	25.00'	2"x 8"	0646	
15.55	30.00'	2"x 8"	0058	
15.79	30.00'	2"x 8"	0450	
14.72	30.00'	2"x 8"	0655	
	16.58 14.68 14.62 15.11 15.17 14.92 14.99 15.97 13.84 15.55	14.68 32.10' 14.68 32.11' 14.62 32.48' 15.11 32.10' 15.17 30.06' 14.92 32.15' 14.09 31.60' 15.97 31.80' 15.55 30.00' 15.79 30.00'	14.68 32.10' 4"x 10" 14.68 32.11' 4"x 10" 14.62 32.48' 4"x 10" 15.11 32.10' 4"x 10" 15.17 30.06' 2"x 8" 14.92 32.15' 2"x 8" 14.92 31.60' 2"x 8" 15.97 31.80' 2"x 8" 15.55 30.00' 2"x 8" 15.79 30.00' 2"x 8" 15.79 30.00' 2"x 8" 15.79 30.00' 2"x 8"	14.68 32.10' 4"x 10" 0651 14.68 32.11' 4"x 10" 0627 14.62 32.48' 4"x 10" 0616 15.11 32.10' 4"x 10" 0613 15.17 30.06' 2"x 8" 0639 14.92 32.15' 2"x 8" 0639 14.09 31.60' 2"x 8" 0639 15.97 31.80' 2"x 8" 0642 15.55 30.00' 2"x 8" 0646 15.55 30.00' 2"x 8" 0658 15.79 30.00' 2"x 8" 0658 30.00' 30.0

DICOV	I AND	C2 1L			IDI E COLLE	CTION DE	CORD	7701110.		
Designat Norm	- F7 S4	nio Llove		DWATER SAN				Date: /	-16-95	
-				troot @ Gardo				_Date <u>(p</u>	-16 13	
Samplers Na				treet @ Garde	ii Ave., Hayw	alu, OA		<u></u>		
	•	(), po		······································		·				
Weather Co	riditions: _									
1. WATER	LEVEL DA	ATA: (fro	m TOC)				TOC Elevation (fro	m LS)		
	water (ft)	·	= 14.5	-6'			Water Table Elev.			
b. Total W	ell Depth		= 32.10	ft.	•		Tape Corr. (TC)			
c. Length o	of Water Co	lumn	= 17.5	-4'	(b. – a.)		Well Diameter _	4"x 10"		
d. Casing	Volume		= 11.4	946	(c. x [gat/ft casing]) 2-in. casing					
e. Length o	of filter pack	(= /O'' Y	101	,			•	= 0.65 gal/ft = 1.47 gal/ft	
f. Filter pa	ick volume		= 12.1	···	(e. x [gal/ft fi	lter pack])	6.5-in.c	asing	= 1.70 gal/ft	
g. TOTAL	WELL VO	LUME	= 23	5 gui	(d. + f.)		8-in. ca	•	= 2.60 gal/ft = 4.10 gal/ft	
				/			12-in. ca	asing	= 5.00 gal/ft	
2. WELL P	URGING [DATA:	_ ,	1				•	<pre>x = 0.78gal/ft k = 1.21gal/ft</pre>	
a. Purge M	fethod	TRASH (Pump /	watten/b gallons per			12-in.hol		k = 1.47gal/ft	
b. Require	d Purge Vo	lume (@_	23,5'	gallons per	well volume) :	= 70.0	9AC			
c. Field Te	sting; Equip	ment Use	ed <i>]3</i> +	ECKMAN POL-	+ 1 Emp	DWR C	(OUL)			
	late <u> </u>			·						
	of GW Disp									
f. Recove	ry Rate: Sk	ow (90% >	- 60min),	Medium (90%	30-60 min) /	Fast/(90%	< 10 min)			
Volume Removed (gal)	Time	T ⁰ c	pН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement	
5	0830	19.7	7.20	165		PLOUDY	TURBID			
25	0838	19.6	7,12	910			ARING		25'	
50	0848	19.5	7.11	913		CL	EARING I		₩	
72.5	0858	19.4	7.13	916		CL	EAR			
SAMPLE	0910	19.2	7.15	915		CL	EAR			
	COLLECTION	NI Mast	d Dise-	esple Pailer	Container	2 > 40 =	MIVOA De	eservation	HCI	
s. Sample (JOLLEGIIC			sable Bailer (gas) 8015, BT		<u> </u>	III V OA PR	ssoi valivii	1102	
COMMENTS	S, REMARK	KS .								
4.6	LABELLE	00 / CO X	++ -M	w-I						

	GROUND	WATER SAMPLE COLLECTION RECORD
roject Name:	EZ - Serve, Havward	Job No.: 1564-04

	GROUN	DWATER SAN	IPLE COLLEC	TION RE	CORD		
Project Name: <u>EZ - Serve, Hay</u>	ward		Job No.:	1564-04		_Date: <u>6</u>	-15-95
Location: Station No. 100877	, 523 "A" S	treet @ Garde	n Ave., Haywa	rd, CA	· · · · · · · · · · · · · · · · · · ·		
Samplers Name: Mr STM	AR						
Weather Conditions: PARTLY	Cloudy	, Windy					
WATER LEVEL DATA: (from a. Depth to water (ft)	om TOC) = 15.6 = 28.40 = 12.7 = 2.0 = 8.4 = 7.8 = 9.8 Pump 9.8 Sed Back 55 gallor	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	(b. – a.) (c. x [gal/ft ca (e. x [gal/ft fill (d. + f.) well volume) =	sing]) ter pack]) : 29.5 Vwe	8-in. ca 10-in. ca 12-in. ca 8-in.hola 10-in.hola 12-in.hola 9nc 5	2"x 8" sing sing sasing asing asing e filter pack	
Volume Removed (gal) Time T ^o c	рН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement
6 1539 19,6	7.21	1,350		CLOUD	4 FUEL OPOR		
20 1553 19.4	7.11	1,310					24.0
30 1604 19.3	7.03	1,307		e	LAR LAR		ļ
3. SAMPLE COLLECTION: Meti Analy COMMENTS, REMARKS	sis TPH	(gas) 8015, BT	Container EX 8020	3 x 40	mi VOA Pr	eservation	HCL

			GROUND	WATER SAM	PLE COLLEC	CTION RE	CORD				
Project Name	EZ - Sei	ve, Hayw	ard		Job No.:	1564-04		Date: <u>6-</u>	16-95		
				reet @ Garde		ard, CA					
Samplers Na	me։ <u> </u>	STINA	r								
Weather Con											
		Th. //					TOC Elevation (from	16/			
I. WATER			n 100) = <u> 6.7</u>	q '			Water Table Elev				
	water (ft)		= 16. C = 32.30 f		Tape Corr. (TC)						
	ell Depth				(b. – a.) Well Diameter						
d. Casing \	f Water Col		-			asinal)	2-in. casi		= 0.16 gal/ft		
•	of fitter pack		= 10" 1	L.	(c. x [gal/ft casing])						
-	ck volume			SAL	(e. x [gal/ft fil	ter pack])	6.5-in.ca	sing =	= 1.70 gal/ft		
g. TOTAL WELL VOLUME = 22.1 gav (d. + f.) 8-in. casing 10-in. casing									= 2.60 gal/ft = 4.10 gal/ft		
9. 1017	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						12-in. cas	ing =	= 5.00 gal/ft		
2. WELL P	URGING D	ATA:	_	/			8-in.hole		= 0.78gal/ft = 1.21gal/ft		
a. Purge M	ethod	RASH.	Punp ,	MATERRA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12-in.hole	filter pack	c = 1.47gal/ft		
b. Required	d Purge Vol	ume (@_	33.(1	gallons per	weli volume)	= 66.5	gar .				
c. Field Te	sting; Equip	ment Use	ed <u>Bec</u>	kwan byt.	bemp	NWR Co	ND		<u>-</u>		
d. Pump R	ate	1.0 gg)M						<u></u>		
e. Method	of GW Disp	osal <u>'</u>	55 gallon	drum	00 60 min)	East 190%	< 10 min)				
	y Rate: Sid	W (90% :	> 60min),	Medium (90%	30-60 Hai), (asi (80 /6					
Volume Removed (gal)	Time	T⁰c	pН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement		
10	0730	19.4	6.79	1,185		DARK GR	senish Fuelodol				
32	0741	19.6	6.82	1,205		CUGA	e.N6		25'		
48	0749	19.6	6.90	1,210		CL	ear		\ \ \		
68	0759	19.5	6.93	1,215		CL	tar tal		<u> </u>		
SAMPLE	0809	19.3	6.95	1,217		CL	EAR				
									·		
									\- <u>-</u>		
3. SAMPLE	COLLECTIO			osable Bailer		r <u>3 x 40</u>	ml VOA Pre	servation	HCL		
COMMENT	S, REMARK	•	BIS <u>IPH</u>	(gas) 8015, Bī	EA 8020						
	· · · · · · · · · · · · · · · · · · ·										

BROW	N AND	CAL	DWE	LL				Well No.	MW-3
			GROUN	DWATER SAM	IPLE COLLE	CTION REC	ORD		
Project Nam	e: <u>EZ - Se</u>	rve, Hayı	ward		Job No.:	1564-04		Date:	-16.
Location:	Station No	. 100877,	523 "A" S	treet @ Garde	n Ave., Hayw	ard, CA			·
Samplers Na	ame:/\	1. STA	1AR						
Weather Cor	nditions:								
								 :	
1. WATER		•	•				OC Elevation (fro	•	
-	water (ft)		= 16.5				ater Table Elev.		
	ell Depth						pe Corr. (TC)		
				2'			ell Diameter		0.40
_	Volume			DAL	(c. x [gal/ft ca	asing])	2-in. cas 4-in. cas	sing sing	= 0.16 gal/ft = 0.65 gal/ft
	of filter pack						6-in. cas 6.5-in.ca	sing	= 1.47 gal/ft
•	ick volume			Igau		ter pack])	6.5-in.ca	asıng sina	= 1.70 gal/ft = 2.60 gal/ft
g. TOTAL	WELL VO	LUME	= 22	1942	(d. + f.)		10-in. ca	sing	= 4.10 gal/ft
6 MELL D		NATA.							= 5.00 gal/ft c = 0.78gal/fi
2. WELL P	unding L	JATA:	a G	/WATERA	Δ		10-in.hole	e filter pac	k = 1.21gal/fl
a. Purge M	d Duras Vol	IKASA	22.1 /	gallons per	well volume) -	115	12-in.hole	e filter pac	k = 1.47gal/fl
				_gallons per ckman phy			10	······································	
	ate <u> </u>			Santo par	- 12 - 10	TOR COM	280		<u> </u>
•	of GW Disp			drum		······································			·
	•			Medium (90%	30-60 min), /	-ast (90% <	10 min)		
Volume	1	<u> </u>	<u> </u>			<u>/ ` </u>			Į
Removed	Time	T°c	pН	Spec. Conductivity	Turbidity (NTU's)		Color/ scription	SWL	Pump Placement
(gal)		19.7	6.37	980	(,,,,,,		FUEL ODOR		281
10 30	1257 1308	19.3	6.71	1090		CLE			4
50	1319	19.3	6.73	1077		CLE			
68	1328	19.4	6.77	1.072		CLEA			
		19.4	6.76	1,070		C C 64		<u> </u>	· · · · · · · · · · · · · · · · · · ·
Sample_	1335	TUT	18.10	1,51		200	~ C		
			<u> </u>						
	<u> </u>								,
								`	
						<u> </u>			
B. SAMPLE C	COLLECTIC	N: Metho	d Dispo	sable Bailer	Container	3 x 40 ml \	/OA Pre	servation	HCL
		Analys	is TPH ((gas) 8015, BT	EX 8020		····		
COMMENTS	S, REMARK	S							

DICOV	I AND		12 Y Y 12					1100.11	
			GROUNI	OWATER SAM	MPLE COLLE	CTION RE	CORD		
Project Nam	e: <u>EZ - Se</u>	rve, Hay	ward		Job No.:	1564-04		_Date:_	6-16-95
Location:	Station No	. 100877,	523 "A" S	treet @ Garde	en Ave., Hayw	ard, CA			
Samplers Na	ame:/ <u>/</u> /	STIN	AR						
Weather Co	nditions:								
<u></u>				·······	·				
1. WATER		•		0.1			TOC Elevation (fro		
	water (ft)				•		Water Table Elev.		
	ell Depth						Tape Corr. (TC)		
-				3'	_		Well Diameter		
_	Volume			BARL	(c. x [gal/ft ca	asing])	2-in. ca 4-in. ca		= 0.16 gal/ft = 0.65 gal/ft
				x 10,			6-in. ca	sing	= 1.47 gal/ft
				lgar		iter packj)	6.5-in.ca 8-in. ca	•	•
g. TOTAL	WELL VO	LUME	= 23	,, 4	(d. + f.)				= 4.10 gal/ft
2. WELL P	HEGING [ΝΑΤΑ ·		,			12-in. ca 8-in.hole	_	= 5.00 gal/ft ack = 0.78gal/ft
a Purae M	lethod	TOAL L	L Pan	p/wate	RRA		10-in.hoi	e filter p	ack = 1.21gal/ft
h Require	d Purge Vol	lume (@	23.4	gallons per	well volume) :	= 70.2		e iliter p	ack = 1.47gal/ft
				KMAN PH+				·	
d. Pump R	ate/	5 GPV	ر مارد ا	1	1 - 9	<u> </u>		· · · · · · · ·	
-	of GW Disp	71		drum				· · · · · · ·	
				Medium (90%	30-60 min)	Fast (90%	< 10 min)		
Volume	I				<u> </u>			<u> </u>	
Removed (gal)	Time	T°c	ρН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	swi	Pump Placement
15	1037	19.7	6.71	1,014		CLEA	.e.		27'
46	1057	19.6	6.73	1,020		ece			Ψ
60	1107	19.6	6.75	1,025		} 	EAR		
72	1115	19.5	674	1,021		CL	LAR		
Saupet	1120	19.4	6.77	1,034		co	LAR		
JAPAILL									
	<u> </u>								
<u></u>	<u> </u>				Cambala	0 40	-11/04		on UCI
3. SAMPLE (COLLECTIO		•		Container	3 X 40 I	mi VOA Pre	servatk	on <u>HCL</u>
		•	וא ורח ((gas) 8015, BT	LA OUZV				<u> </u>
COMMENTS	5, REMARK	SKLLED SKLLED	100 67	7-mw-4	ſ				
	<i>y</i> -(.		<u>, , , , , , , , , , , , , , , , , , , </u>	· · · · · · · · · · · · · · · · · · ·					

			GROUNE	WATER SAM	PLE COLLE	CTION RE	CORD		
Project Nam	e: <u>EZ - Se</u>	rve, Hayv	vard		Job No.:	1564-04		_Date:	6-16-95
Location:	Station No	. 100877,	523 "A" S	treet @ Garder	n Ave., Hayw	ard, CA			
Samplers Na	me:	STINI	4R						
Weather Cor	nditions:								
4 MATER	LEVEL DA	ATA: /from	m TOC\				TOC Elevation (fro	m I S)	
1. WATER		•		1			Water Table Elev.		
•				ft.			Tape Corr. (TC)		
b. Total We	eli Deplii Mater Co	de imm	- 17.//		(b _ a)		Well Diameter		•
	Volume			944		asing])		sing	= 0.16 gal/ft
_				k 10°	([3		4-in. cas	sing	= 0.65 gal/ft
			· •	1926	(e. x [gal/ft fi	lter packi)	6.5-in.ca	sing asing	= 1.70 gal/ft
				Sque		1 47	8-in. ca:	sing	= 2.60 gal/ft = 4.10 gal/ft
g. TOTAL	. WELL V	/LO:::L	<u>0.5.</u>	720	(12-in. ca	sing	= 5.00 gal/ft
2. WELL P	URGING [DATA:		1					ck = 0.78gal/fi nck = 1.21gal/fi
a. Purge N	lethod	TRASH	+ Pant	WATER	ea				lck = 1.2 TgaVf
h Require	d Purge Vo	lume (@	J3,5	gallons per	well volume):	- 70.	7 gac		
c. Field Te	sting; Equip	oment Use	ed <u>Be</u>	CKMAN P	H+TEM	P	our con		
d. Pump R	ate	2.0	PM		··· -·· -·· -··				
e. Method	of GW Disp	oosal	55 gallon	drum					
f. Recove	ry Rate: Si	ow (90% :	> 60min),	Medium (90%	30-60 min),	Fast (90%	< 10 min)		
Volume Removed (gal)	Time	T°c	рН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement
20	0940	19.6	6.47	1,330		GEAR	, FUEL ODOR		08'
40	0950	19.5	6,51	1,310		•	ar		V
60	1000	19.4	6.53	1,312			SAR		`
72	1007	19.4	6.54	1,320		CC	EAR		
SAMPLE	1014	19.5	6.49	1,341		CL	EAR		
SAPARCE_	101				<u> </u>				-
									,
			<u> </u>						
	<u> </u>	 	<u> </u>						
	<u> </u>		<u></u>				11/01		. UCI
3. SAMPLE	COLLECTIO					r 3 X 40	mi VOA Pro	eservatio	II HOL
			is <u>IPM</u>	(gas) 8015, BT	LA 6020				
COMMENT	S, REMARI L אמצי	(S UED 10	10877- I	MW-5					
	P/ PHOE	(-							

BROW	BROWN AND CALDWELL W										
			GROUNI	WATER SAM	PLE COLLEC	CTION RE	CORD				
Project Name	e: EZ - Se	rve, Hayv	vard		Job No.:	1564-04	· · · · · · · · · · · · · · · · · · ·	Date: 6	16-95		
Location:	Station No.	. 100877,	523 "A" S	treet @ Garde	n Ave., Haywa	ard, CA					
Samplers Na	me: <u>//</u>	1. STI	NAR						* :		
Weather Cor	nditions:								<u>´</u>		
1. WATER	LEVEL DA	ATA: (fro	m TOC)				TOC Elevation (from	n LS)			
a. Depth to		•	= 15.11	·			Water Table Elev				
b. Total We			= 32.10				Tape Corr. (TC)				
	-			9	(b. – a.)		Well Diameter				
-	/olume			946		asing])	2-in. cas	•	= 0.16 gal/ft		
-	of filter pack		= 10(1	T .			4-in. cas 6-in. cas	_	= 0.65 gal/ft = 1.47 gal/ft		
f. Filter pa	ck volume		= 12.	946	(e. x [gal/ft fil	ter pack])	6.5-in.ca	sing :	= 1.70 gal/ft		
g. TOTAL	WELL VO	LUME		. •	(d. + f.)		8-in. cas 10-in. cas		= 2.60 gai/ft = 4.10 gai/ft		
•							12-in. cas	sing :	= 5.00 gal/ft		
2. WELL P	URGING E	DATA:		/			9-in.noie		: = 0.78gal/fl k = 1.21gal/fl		
a. Purge M	ethod	RASH	Pum	gallons per	Q A		12-in.hole		k = 1.47gal/ft		
D. Madana	ar algo to				,		,				
				KMAN PH	+ IEMP,	TWR.	COND		<u> </u>		
•	ate <u>/ / :</u>										
	of GW Disp				: .//	- Wassi	40		<u></u>		
f. Recover	y Rate: Sk	ow (90% :	> 60min),	Medium (90%	30-60 miny	-ast (90%	. < 10 min)				
Volume Removed (gal)	Time	T⁰c	рН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement		
6	1145	19.7	6.64	1,170		econo	y, Fuel Odol		28'		
30	1200	19.6	6.67	(,210		eu	EAR		<u> </u>		
50	1214	19.4	lecte 5	1,215		C	<u> </u>				
71	1228	19.5	6.68	1,218		l e	LEAR				
SAMPLE	1237	19.4	le-63	1,220		ec	LAR				
									,		
									ĭ		
3. SAMPLE (COLLECTIO	N: Math	vd Dieno	sable Bailer	Container	3 x 40	ml VOA Pre	servation	HCL		
o. Omiviple ((gas) 8015, BT							
COMMENTS	S. REMARK	S.									
	_,,	LABEL	us la	0877 MW-	6						

3. SAMPLE COLLECTION: Metho	d Disposable Bailer	Container _3:	x 40 ml VOA	Preservation	HCL
Analysi	is <u>TPH (gas) 8015, BTE</u>	EX 8020			
COMMENTS, REMARKS	400 100877 MW-	7 TOOK	Duplicate	MW-7D	
		FIEL	D BANK)	nw-7FB	

DVOAA	IN WUD	CAL	DAAT	اسلالسا				**************************************	WITTO
			GROUNE	WATER SAM	IPLE COLLE	CTION RE	CORD		
Project Nam	e: <u>EZ - S</u> e	rve, Hayv	vard		Job No.:	1564-04		_Date: <u>6</u> -	15-95
Location:	Station No	. 100877,	523 "A" S	treet @ Garde	n Ave., Hayw	ard, CA		····	
Samplers Na									
Weather Co									
1. WATER	LEVEL DA	ATA: (fro	n TOC)				TOC Elevation (fro	om LS)	
	water (ft)		= 14.92	•			Water Table Elev.		
	ell Depth						Tape Corr. (TC) _		
	•			z <u>´</u>	(b. – a.)		Well Diameter _		
				GAL		asing])	● 2-in. ca	•	= 0.16 gal/ft
e. Length	of filter pacl	<	= /0 '					•	= 0.65 gal/ft = 1.47 gal/ft
				gac		lter pack])	6.5-in.	casing =	= 1.70 gal/ft
				IAL			O-III. W		= 2.60 gal/ft = 4.10 gal/ft
•					•		12-in. c	asing =	= 5.00 gal/ft
2. WELL P	URGING I	DATA:	/						: = 0.78gal/ft : = 1.21gal/ft
a. Purge N	Method	TRASH P	unp /u	gallons per			12-in.hc		c = 1.47gal/ft
b. Require	d Purge Vo	lume (@_	10.5	gallons per	well volume)	= 31.6 4	46		<u></u>
				mangth+	IEMT	UWR C	6ND	,	<u></u>
	late <u>/.</u>	- / '							
	of GW Disp								<u></u>
f. Recove	ry Rate: SI	ow (90% :	> 60min), ₍	Medium (90%	30-60 min),	Fast (90%	< 10 min)		
Volume Removed (gal)	Time	T⁰c	рН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement
10	0722	19.4	6.61	1,190		CLOUD	y, sicts		
20	0728	19.3	6.5.3	1.195		1	6ARW6		28'
33	0737	19.4	6.51	1.196			-thr		1
	0741	19.4	652	1,198		С	L 6A R		
SAMPLE	10111	1 7 7 7 1	032	11					
						1			
	 								
		 	<u> </u>						
			<u> </u>			<u> </u>			<u> </u>
3. SAMPLE	COLLECTION			sable Bailer		r <u>3 x 40 r</u>	ni VOA P	reservation	TUL
		•	is <u>IPH</u>	(gas) 8015, B	EN OUZU				
COMMENT	S, REMARI	KS 0∧∢⇒.ঽ.	Mu)- 9	ŝ			<u>-</u>		
<u> </u>	WEU 1	~ 0 <i>T [</i>	7 - 100			***			

		•	GROUNI	DWATER SAI	APLE COLLE	CTION RE	CORD		
Project Nam	e: <u>EZ - Se</u>	rve, Hayv	vard		Job No.:	1564-04		Date:	15-95
Location:	Station No	. 100877,	523 "A" S	treet @ Garde	en Ave., Hayw	ard, CA			
Samplers Na	ame: <u>M</u>	STINAR	2						
Weather Cor	nditions:(LEARING	6, eo	0L					
1. WATER a. Depth to b. Total W c. Length o d. Casing V e. Length o f. Filter pa g. TOTAL 2. WELL P a. Purge M b. Require c. Field Te d. Pump R	LEVEL DA water (ft) ell Depth of Water Co Volume of filter pack ack volume . WELL VO URGING I dethod	DLUME DATA: (RASH F DIME DIME DATA: (RASH F DIME DIME DIME DIME DATA: (25 92	m TOC) $= \frac{14.09}{31.60}$ $= \frac{17.61}{2.800}$ $= \frac{6"}{10.6}$ $= \frac{7.8}{10.6}$ $= \frac{10.6}{1360}$ and $\frac{1360}{1360}$	ft. fac gac gac gac galons per cx man ptt	(c. x [gal/ft c. (e. x [gal/ft fi	asing]) Iter pack]) = 31, 89	6-in. ca 6.5-in. ca 10-in. ca 12-in. ca 8-in.hol 10-in.ho 12-in.ho	2"x 8" asing asing asing asing asing asing asing asing asing	
					30-60 min),	Fast (90%	< 10 min)		
Volume Removed (gal)	Time	T⁰c	рН	Spec. Conductivity	Turbidity		Color/ Description	SWL	Pump Placement
10	0856	19.7	6.84	1,370		Beogn	ush SICTS		
20	0904	19.3	6-73	1,410			salin 6		26
33	0916	19.2	6.69	1,413		در	GARIN 6		b
SAMPLE	0924	19.2	6.67	1,417		C	char		
<i>37</i> ,7,4,50				-11					
3. SAMPLE (COLLECTIO		•	sable Bailer (gas) 8015, Bī		r <u>3 x 40</u> n	ni VOA Pi	reservation	HCL
COMMENTS LAGGIL	S, REMARK // 1008	(S 97 - Mu	y-9		<u>.</u>				

·			GROUN	DWATER SAM	IPLE COLLE	CTION REC	ORD		
Project Nam	e: <u>EZ - Se</u>	erve, Hay	vard		Job No.:	1564-04		_Date: _	6-15-95
Location:	Station No	. 100877,	523 "A" S	Street @ Garde	n Ave., Hayw	vard, CA			
Samplers Na	ame:	Μ.	STINA	R					-
Weather Co	nditions:	PARTZ	1-Clos	DV, De122	LE	····			
<u></u> ,		· -							
1. WATER		•	-				OC Elevation (fro	•	
	water (ft)				•		Vater Table Elev.		
	ell Depth						ape Corr. (TC)		
				531			Vell Diameter _		0.4015
=	Volume		= 2.5	-39AC	(c. x [gal/ft c	asing])		ısıng ısing	= 0.16 gal/ft = 0.65 gal/ft
	of filter pack			(O)			6-in. ca	ısing	= 1.47 gal/ft
	ick volume			8944		ilter pack])		asing Ising	= 1.70 gal/ft = 2.60 gal/ft
g. TOTAL	WELL VO	LUME	= 10.	BGAL	(d. + f.)		10-in. ca	asing	= 4.10 gal/ft
2. WELL P	UDOINO F	34TA.						asing e filter pac	= 5.00 gai/ft ck = 0.78gai/ft
			.,, 2	. D. LUATE A	Λ Δ			le filter pa	ck = 1.21gal/ft
a. Purge w	d Burgo Vol	// // //	10.3	dellone per	well volume)	- 30.9	10-in.ho	e filter pa	ck = 1.47gal/ft
D. Require	a Purge voi otina: Cauir	most Lloc	d Be	CKMAN PE	Tour O	- 301 (3	Could		
				Carrian	FFIERD	UW	COM		
·	of GW Disp				, , , , , , , , , , , , , , , , , , , 		 		
				Medium (90%	30-60 min).	Fast (90% <	10 min)	, ,, , , , , , , , , , , , , , , , , ,	
Volume	T	I	,						
Removed	Time		-u	Spec.	Turbidity		Color/	SWL	Pump Placement
(gal)	Time	T°c	pΗ	Conductivity	(NTU's)	. 1	escription FAGC	1 3112	Flacement
10	1	19.7		1,170		Colay-gree			10, 1
20	0812	19,5	le-36	1,177		SAM			26
32	0420	19.4	637	1,178			RING		<u> </u>
Sample	0825	19.5	6-39	1,177		CLE	<u> </u>	 	
								<u> </u>	
							· · · · · · · · · · · · · · · · · · ·		
		<u> </u>							
						<u> </u>			
3. SAMPLE (COLLECTIO	N: Metho	d Dispo	sable Bailer	Containe	r 3 x 40 ml	VOA Pro	eservation	n HCL
y, writti taba (, , , , , , , , , , , , , , , , , , , ,			(gas) 8015, BT					
COMMENTS	S REMARK	_							
~~!FIFTE 4 ((LABOU	ien 100	X577- 1	NW-10					
	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·				

			GROUNI	OWATER SAM	IPLE COLLE	CTION RE	CORD		
Project Nam	e: <u>EZ-S</u> e	rve, Hayv	vard		Job No.:	1564-04		Date: <u>6-</u>	15-95
				treet @ Garde					
Samplers Na	ame:	1 STIN	AR	···					
Weather Co	nditions:	PARTLY	lloway	, looc					
1. WATER	LEVEL DA	ATA: (fro	m TOC)				TOC Elevation (from	n LS)	
a. Depth to	water (ft)		= /3.	84'	•		Water Table Elev		
b. Total W	ell Depth		= 25.00	ft.			Tape Corr. (TC)		
c. Length o	of Water Co	lumn	= /1:16	1	(b. – a.)		Well Diameter		
d. Casing \	Volume		= 1,78	10'	(c. x [gal/ft c	asing])	2-in. cas 4-in. cas	_	= 0.16 gal/ft = 0.65 gal/ft
e. Length o	of filter paci	<	= \ \ '' \ \	10'	•		6-in. cas	-	= 1.47 gal/ft
f. Filter pa	ack volume		= 7.8	GAL	(e. x [gal/ft fi	lter pack])	6.5-in.ca 8-in. cas	•	= 1.70 gal/ft = 2.60 gal/ft
g. TOTAL	. WELL VO	DLUME	= 9.5	gul	(d. + f.)		10-in. ca	sing =	= 4.10 gal/ft
				/			12-in, ca		= 5.00 gal/ft == 0.78gal/ft
2. WELL P			f				10-in.hole	filter pack	c = 1.21gal/ft
a. Purge M	Method	IRASH P	amp/m	ATERA		107		filter pack	c = 1.47gal/ft
•	_			gallons per	•		•		<u></u>
				CKMN pt.	(DOUD	van	COND		
	Rate	• •		drim					
	of GW Disp				30-60 min)	Fast (90%	o < 10 min)		
	Ty hate. Of	OW (90%)	- 00/////	I GOA	1	T			
Volume Removed (gal)	Time	T⁰c	pH	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement
9	1451	19.8	6.19	1,271		GRESA	FUEL ODOR		
18	1457	19.7	6.37	1,254		1	LEARING		20'
27	1503	19.8	6-39	1,286		C	LEARIND		
30	1506	19.8	6.41	1,285			LEAR		
Sande	1512	19.3	6.45	1,257			LEAR		
STITLE									
	1								
	 								
3. SAMPLE	COLLECTION	ON: Methr	od Disor	sable Bailer	Containe	r 3 x 40	ml VOA Pre	servation	HCL
U. UCHII LL				(gas) 8015, B					
COMMENT	S, REMARI	(S							
	LABELLE	D 1608	77- MW	- U				-	

DIVO	IA WIAD	<u> </u>						.,,	
			GROUN	DWATER SAM	PLE COLLEC	CTION RE	CORD		-
Project Nam	e: <u>EZ-S</u> e	erve, Hay	vard		Job No.:	1564-04		_Date: <u>6-</u>	15-95
Location:	Station No	. 100877,	523 "A" S	Street @ Garde	n Ave., Haywa	ard, CA			
Samplers Na								. <u></u>	
Weather Co				2000					
								<u> </u>	
1. WATER		•	•				TOC Elevation (fro		
•	water (ft)			5'			Water Table Elev.		
	ell Depth						Tape Corr. (TC)		
_				5'			Well Diameter		0.46 401/6
d. Casing '	Volume		= 2.3	gac_	(c. x [gal/ft ca	asing])	2-in. ca 4-in. ca		= 0.16 gal/ft = 0.65 gai/ft
e. Length	of filter pacl			10(6-in. ca	sing	= 1.47 gal/ft
f. Filter pa	ick volume		= 7.8	GAL	(e. x [gal/ft fil	ter pack])		•	= 1.70 gal/ft = 2.60 gal/ft
g. TOTAL	. WELL VO	DLUME	= 10.1	SAL	(d. + f.)			•	= 4.10 gal/ft
				7				•	= 5.00 gal/ft
2. WELL P				/					c = 0.78gal/fl k = 1.21gal/fl
a. Purge N	fethod	TRASH	Pump/	WATERA			12-in.ho		k = 1.47gal/fl
b. Require	d Purge Vo	lume (@_	10.11	gallons per	well volume) =	30.3	946		
c. Field Te	sting; Equip	oment Us	ed <u>Be</u>	CKMAN PH	+ Temp	VuR	lovd	·	
d. Pump R	late/.:	D gpm							
e. Method	of GW Disp	oosal	55 gallor	n drum				· · · · · · · · · · · · · · · · · · ·	
f. Recove	ry Rate: Si	ow (90% :	> 60min),	Medium (90%	30-60 min), I	Fast (90%	< 10 min)		
Volume Removed (gal)	Time	T⁰c	рН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement
10	1210	19.5	6.71	1,100		PROU	N SLLTS		
20	1221	19.2	1068	1,090			EARIN 6		251
32	1233	19.3	6.67	1,092			.64R		
	1241	19.3	6.63	1,093			LGAR		,
Sample	1/4/1	1111		1,00					N.
		 	 					 	
		-	 					 	
			<u> </u>		<u> </u>				
			<u> </u>						
3. SAMPLE	COLLECTION	ON: Metho	od <u>Disp</u>	osable Bailer	Container	3 x 40	mi VOA Pr	eservation	HCL
		Analys	is <u>TPH</u>	(gas) 8015, BT	EX 8020				
COMMENT	S, REMARI	K S	۸.	.A					
	laseu	60 1008	17 - MW	-12		 			,

			GROUN	DWATER SAN	APLE COLLE	CTION RI	CORE)		-
Project Nan	ne: <u>EZ - S</u>	erve, Hay	ward		Job No.:	1564-04			Date:_ <i>_6</i>	-15-95.
Location:	Station No	o. 100877	, 523 "A" S	Street @ Garde	en Ave., Hayw	ard, CA			7	
	ame: <u>M</u>									
Weather Co	onditions:	PARTLY	Cloud	1, WINDY						
								· · · · · · · · · · · · · · · · · · ·	····	•
	LEVEL D	•	-	٠ (•	rom LS)	
•	o water (ft)		= 15.7		•				/·	
	/ell Depth			ft.	, /h		-	* *		· · · · · · · · · · · · · · · · · · ·
•				.1' -9AL	• •	aning1\	Well	Diameter 2-in c		= 0.16 gal/ft
-	Volume of filter pac			x10'	(C. X [gavit C	asiriyjj		4-in. c	asing	= 0.65 gal/ft
				69AL	√e. x. [gal/ft fi	ilter packl)		_		= 1.47 gal/ft = 1.70 gal/ft
				O GAL		mor paong,		8-in. d	asing	= 2.60 gal/ft
g. 10171			<u>-</u> /0	77.0	(•	= 4.10 gal/ft = 5.00 gal/ft
2. WELL F	URGING I	DATA:		/				● 8-in.ho	le filter pac	k = 0.78gal/ft
a. Purge N	Nethod	TRASH	PUMP/	WATERRA						k = 1.21gal/ft k = 1.47gal/ft
b. Require	d Purge Vo	lume (@_	10.0	gallons per	well volume) :	= 30.0	946			
c. Field Te	esting; Equi	pment Us	ed <u>//}</u>	gallons per ECKM4J fr H	+ TEMP	VWR	Coas	7		
d. Pump F	Rate	1.0	3PM	, , , , , , , , , , , , , , , , , , ,						
	of GW Disp			drum						
f. Recove	ry Rate: SI	90% :	> 60min),	Medium (90%	30-60 min),	Fast (90%	< 10 n	nin)		
Volume		T								
Removed (gai)	Time	T⁰c	pН	Spec. Conductivity	Turbidity (NTU's)		Colo Descrip		SWL	Pump Placement
7.0	/335	19.6	6.63	1,050		BROW	A) SICT	٠,		
19.0	1347	19.5	7.17	1.060		1	ne			
31.0	1351	19.6	7.21	1,062		1	n e			ż
SAMPLE	1401	19.5	7.27	1.066		i	RING			
								· · · · · · · · · · · · · · · · · · ·		\$
										*
										e .
										,
							, <u></u>			-5
CAMPLE	COLLECTIO	N: Motho	vd Dieno	sable Bailer	Container	3 x 40 n	ol VOA	D	reservation	UCI
, SAMPLE 1	JULLEUIK			gas) 8015, BTI		<u> </u>	ii VUA	P	i cəci yallul i	IIVL
COMMENT	S, REMARK	•							· ····································	
	LABELLE	0 10087	7- MW-	-13						

			GROUN	OWATER SAM	IPLE COLLE	CTION RE	CORD		
Project Nam	e: <u>EZ - S</u> e	erve, Hay	ward		Job No.:	1564-04		_Date: <u>6</u> -	15-95
Location:	Station No	. 100877,	523 "A" S	treet @ Garde	n Ave., Hayw	ard, CA			
Samplers Na	ame: <u>M</u>	STINA	R					,	
Weather Co	nditions:	Duge Cas	7,00	v					
b. Total W c. Length of d. Casing V e. Length of f. Filter pa g. TOTAL 2. WELL P a. Purge N b. Require	o water (ft) fell Depth of Water Co Volume of filter pack ack volume . WELL VO URGING I fethod d Purge Vo	Olumn COLUME DATA: TRASH Jume (@_	= 14.7 = 30.00 = 15.28 = 2.4 = 8"x = 7.8 = 10.2	ft. 3' 9AL	(c. x [gal/ft ca (e. x [gal/ft fi (d. + f.)	asing]) Iter pack])	8-in. ca 10-in. ca 12-in. ca 8-in.hol 10-in.ho 12-in.ho	2"x 8" using	,
	late <u>/·</u>			NAC TO JOSE	+ 01-1	750/2			
	of GW Disp			drum		······································			
				Medium (90%	30-60 min),	Fast (90%	< 10 min)		
Volume Removed (gal)	Time	T ^o c	рН	Spec. Conductivity	Turbidity (NTU's)		Color/ Description	SWL	Pump Placement
10	1046	19.5	7.02	850		BROWN) 51LTS		
20.	1057	19.3	6.97	861		1	ME-		25'
32	1110	19.4	6.93	862		CLG	ARING		4
SAMPLE	1121	19.3	6.91	865		CLE	AR		,
			<u> </u>						. ×,
						<u> </u>			
-	<u> </u>		ļ	:		<u> </u>			
									- 22
3. SAMPLE	COLLECTIO			sable Bailer (gas) 8015, BT		7 <u>3 x 40 n</u>	nl VOA Pr	reservation	HCL
COMMENT	S, REMARI ABHUGO	(S 10087	7. NW	-14		<u>-</u>			
						 	, 		



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

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

Company: Site:

EZ Serve Inc. Hayward, CA

Project No:

1564-04

Project:

EZ Serve #100877

ANALYTICAL DATA NOTE: ND - Not Detected

SPL ID	CLIENT ID DATE SAMPLED	BENZENE PQL	TOLUENE PQL	ETHYLBENZ. PQL	XYLENE	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	44 00 100μg/L	270 100μg/L	1600 100µg/L	47 00 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			ę.
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	мр 50/цд/Г			
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			÷ -2,
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	-		1 (4 (4)) 1 (4

BTEX

METHOD 8020***

METHOD 8020***
Modified 8015 - Gasoline Subly



07/14/95

****SUMMARY REPORT HOUSTON LABORATORY

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

Company: Site:

EZ Serve Inc. 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.	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	4 70 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	ΝD 50μg/L			.'

BTEX - METHOD 8020***

TPH-G - Modified 8015 - Gasoline South



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	μ g/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		$\mu g/L$
Surrogate	% Recovery		
1,4-Difluorobenzene	94		
4-Bromofluorobenzene METHOD 8020*** Analyzed by: JZL	100		
Date: 06/25/95			
Petroleum Hydrocarbons - Gasoline	2000	500 P	μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	99		
4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: JZL Date: 06/25/95	104		

(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



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	UNITS
BENZENE	4400	LIMIT	/=
TOLUENE	270	100 P 100 P	μg/L
ETHYLBENZENE	1600	100 P	μg/L
TOTAL XYLENE	4700	100 P	μg/L μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	10970	100 1	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.

SPL California License # 1903

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

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	UNITS			
BENZENE	520	LIMIT 10 P	u~ /⊺			
TOLUENE	20	10 P	μg/L μg/L			
ETHYLBENZENE	280	10 P	μg/L μg/L			
TOTAL XYLENE	430	10 P	μg/L			
TOTAL VOLATILE AROMATIC HYDROCARBONS	1250	10 1	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						

Certificate of Analysis No. H9-9506721-03

(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



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	UNITS
		LIMIT	
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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QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

SPL California License # 1903

Contified

HOUSTON LABORATORY

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	UNITS
BENZENE	1400	LIMIT 2.5 P	μg/L
TOLUENE	11		μg/L μg/L
ETHYLBENZENE	180		$\mu g/L$
TOTAL XYLENE	310	2.5 P	μg/L μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1901	2.5 F	μg/L μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene METHOD 8020*** Analyzed by: YN Date: 06/28/95	99		
Petroleum Hydrocarbons - Gasoline	5300	2500 P	μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	97		
4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: LT Date: 06/25/95	101		

(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. H9-9506721-06

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

PROJECT NO: 1564-04
MATRIX: WATER

SAMPLED BY: Brown & Caldwell

DATE SAMPLED: 06/16/95 12:37:00

SAMPLE ID: 100877 MW-6 DATE RECEIVED: 06/17/95

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION	UNITS
		LIMIT	
BENZENE	1100	25 P	μ g/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.

SPL California License # 1903

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		w-te
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENE TOTAL VOLATILE AROMATIC HYDROCARBONS	380 5 360 540 1285	2.5 P 2.5 P	μg/L μg/L μg/L μg/L μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene METHOD 8020*** Analyzed by: YN Date: 06/28/95	% Recovery 97 114		r31 -
Petroleum Hydrocarbons - Gasoline	5800	250 P	μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: YN Date: 06/28/95	% Recovery 91 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



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	μ g/L
TOTAL XYLENE	ND	0.5 P	μ g/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		μ g/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
<u>-</u>			F5/ 5
Surrogate	% Recovery		
1,4-Difluorobenzene	97		
4-Bromofluorobenzene	125		
Modified 8015 - Gasoline			
Analyzed by: LT Date: 06/25/95			
Date: 00/25/35			

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. SPL California License # 1903



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

Certificate of Analysis No. H9-9506721-09

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-9

PROJECT NO: 1564-04
MATRIX: WATER

DATE SAMPLED: 06/15/95 09:24:00

DATE RECEIVED: 06/17/95

ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	2500	50 P	μg/L
TOLUENE	130	50 P	μg/L
ETHYLBENZENE	670	50 P	μg/L μg/L
TOTAL XYLENE	1800	50 P	μg/L μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS		30 F	μg/L μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	97		
4-Bromofluorobenzene METHOD 8020***	101		
Analyzed by: LT Date: 06/25/95			
Petroleum Hydrocarbons - Gasoline	12000	5000 P	μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	99		
4-Bromofluorobenzene	104		
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.

SPL California License # 1903



8880 INTERCHANGE DRIVE 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	ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
BENZENE	14	0.5 P	μg/L	
TOLUENE	4	0.5 P	μg/L	
ETHYLBENZENE	140		μg/L	
TOTAL XYLENE	98	0.5 P	μg/L	
TOTAL VOLATILE AROMATIC HYDROCARBONS	256	0.5 1	μg/L	
Surrogate	% Recovery			
1,4-Difluorobenzene	99			
4-Bromofluorobenzene METHOD 8020*** Analyzed by: YN Date: 06/28/95	134			
Petroleum Hydrocarbons - Gasoline	1600	250 P	μg/L	
Surrogate	% Recovery			
1,4-Difluorobenzene	87			
4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: YN Date: 06/28/95	90			

(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



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

ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION	UNITS
BENZENE	4	LIMIT	
	450	25 P	μg/L
TOLUENE	63	25 P	μg/L
ETHYLBENZENE	1600	25 P	μg/L
TOTAL XYLENE	2200	25 P	$\mu { m g}/{ m L}$
TOTAL VOLATILE AROMATIC HYDROCARBONS	4313		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	98		
4-Bromofluorobenzene METHOD 8020*** Analyzed by: LT	103		
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.

SPL California License # 1903



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

PROJECT NO: 1564-04 MATRIX: WATER

SAMPLED BY: Brown & Caldwell **SAMPLE ID:** 100877 MW-12

DATE SAMPLED: 06/15/95 12:41:00

DATE RECEIVED: 06/17/95

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION	UNITS
BENZENE	ND	LIMIT 0.5 P	/7
TOLUENE	ND ND	0.5 P	μg/L
ETHYLBENZENE	ND	0.5 P	μg/L μg/L
TOTAL XYLENE	ND	0.5 P	μg/L μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND	0.5 1	μg/L
	21.5		μ 9 / Δ
Surrogate	% Recovery		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	99		
METHOD 8020***			
Analyzed by: LT			
Date: 06/25/95			
Petroleum Hydrocarbons - Gasoline	ND	50 P	an /T
recrotediii nydrocarbons Gasorine	ND	50 P	μ g/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.

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



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

Certificate of Analysis No. H9-9506721-13

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-13

PROJECT NO: 1564-04

MATRIX: WATER

DATE SAMPLED: 06/15/95 14:10:00

DATE RECEIVED: 06/17/95

ANALYTICAL DATA			
PARAMETER	RESULTS	DETECTION	UNITS
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENE TOTAL VOLATILE AROMATIC HYDROCARBONS	ND ND ND ND ND	LIMIT 0.5 P 0.5 P 0.5 P 0.5 P	μg/L μg/L μg/L μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene METHOD 8020*** Analyzed by: LT Date: 06/25/95	% Recovery 100 98		
Petroleum Hydrocarbons - Gasoline	ND	50 P	μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: LT Date: 06/25/95	% Recovery 98 119		

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.

SPL California License # 1903



8880 INTERCHANGE DRIVE 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 NO: 1564-04

MATRIX: WATER

PROJECT: EZ Serve #100877

SITE: Hayward, CA

SAMPLED BY: Brown & Caldwell

rown & Caldwell DATE SAMPLED: 06/15/95 11:21:00

SAMPLE ID: 100877 MW-14 **DATE RECEIVED:** 06/17/95

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION	UNITS
BENZENE	0	LIMIT	/ 7
TOLUENE	8	0.5 P	μg/L
ETHYLBENZENE	ND	0.5 P	μg/L
TOTAL XYLENE	6	0.5 P	μg/L
	26	0.5 P	μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	40		μg/L
Surrogate	% Recovery		
1,4-Difluorobenzene	1.00		
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	93 97		
Modified 8015 - Gasoline	31		
Analyzed by: LT			
Date: 06/25/95			
2400: 00,25,35			

⁽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.

SPL California License # 1903



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

Certificate of Analysis No. H9-9506721-15

EZ Serve Inc.

2550 North Loop West, #600

Houston, TX 77292 ATTN: Brian Cobb

DATE: 07/14/95

PROJECT: EZ Serve #100877

PROJECT NO: 1564-04

SITE: Hayward, CA

MATRIX: WATER

SAMPLED BY: Brown & Caldwell

DATE SAMPLED: 06/15/95 10:20:00

SAMPLE ID: 100877 MW-7D **DATE RECEIVED:** 06/17/95

ANALYTICAL	DATA		
PARAMETER	RESULTS	DETECTION	UNITS
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENE TOTAL VOLATILE AROMATIC HYDROCARBONS	330 ND 320 470 1120	LIMIT 2.5 P 2.5 P 2.5 P 2.5 P	μg/L μg/L μg/L μg/L μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene METHOD 8020*** Analyzed by: YN Date: 06/28/95	% Recovery 97 113		<i>F</i> 31 –
Petroleum Hydrocarbons - Gasoline	4800	250 P	μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: YN Date: 06/28/95	% Recovery 97 102		

⁽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.

SPL California License # 1903



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	UNITS
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENE TOTAL VOLATILE AROMATIC HYDROCARBONS	ND ND ND ND ND	LIMIT 0.5 P 0.5 P 0.5 P 0.5 P	μg/L μg/L μg/L μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene METHOD 8020*** Analyzed by: LT Date: 06/25/95	% Recovery 99 97		
Petroleum Hydrocarbons - Gasoline	ND	50 P	μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: LT Date: 06/25/95	% Recovery 98 109		

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. SPL California License # 1903



880 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

1400 -1600 -

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	UNITS
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENE	ND ND ND ND	LIMIT 0.5 P 0.5 P 0.5 P 0.5 P	μg/L μg/L μg/L μg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		$\mu { t g}/{ t L}$
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene METHOD 8020*** Analyzed by: RR Date: 06/24/95	% Recovery 100 101		
Petroleum Hydrocarbons - Gasoline	ND	50 P	μg/L
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene Modified 8015 - Gasoline Analyzed by: RR Date: 06/24/95	% Recovery 97 119		

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.

SPL California License # 1903

QUALITY CONTROL DOCUMENTATION



BATCH QUALITY CONTROL REPORT ** METHOD 8020

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

Units: μg/L Batch Id: HP_S950624212600

LABORATORY CONTROL SAMPLE

SPIKE	Method	Spike	Blank	s Spike	QC Limits(**)		
COMPOUNDS	Blank Result <2>	Added <3>	Result <1>	Recovery	(Mandatory) % Recovery Range		
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

SPIKE COMPOUNDS	Sample Results	Spike Added	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative %	QC Limits(***) (Advisory)		
	<2>	<3>	Result	Recovery	Result	1	Difference		Recovery Range	
Benzene	ND	50	43	86.0	43	86.0	0	25	39 - 150	
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

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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

9506645~0345

Cynthia Schreiner, QC Officer

PL BATCH QUALITY CONTROL REPORT **
METHOD 8020

PAGE HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054 PHONE (713) 660-0901

Matrix: Units: μg/L μg/L Batch Id: HP_8950625130910

LABORATORY CONTROL SAMPLE

SPIKE	Method	Spike	Blank	Spike	QC Limits(**)		
COMPOUNDS	Blank Result <2>	Added <3>	Result <1>	Recovery	(Mandatory) % Recovery Range		
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		
1 & P Xylene	ND	200	180	90.0	32 - 160		

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results	Spike Added	Matrix	Spike	Matrix Dupli	Spike	MS/MSD Relative %		Limits (***) (Advisory)
	<2>	<3>	Result	Recovery	Result	Recovery <5>	Difference	RPD Max.	Recovery Range
Benzene	ND	50	43	86.0	43	86.0	0	25	39 - 150
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	סוא	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

9506678-043/595

Cynthia Schreiner, QC Officer

BATCH QUALITY CONTROL REPORT **
METHOD 8020

PAGE P

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

Batch Id: HP S950628073110

Units: µg/L

LABORATORY CONTROL SAMPLE

SPIKE	Method	Spike	Blank	QC Limits(**)			
COMPOUNDS	Blank Result	Added <3>	Result <1>	Recovery	(Mandatory) % Recovery Range		
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

SPIKR COMPOUNDS	Sample Results	Spike Added	Matrix	Spike	MatrixDupli	Spike cate	MS/MSD Relative %		dmits(***) (Advisory)
	<2>	<3>	Result	Recovery <4>	Result	Recovery <5>	Difference	RPD Max.	Recovery Range
Benzene	ND	20	17	85.0	17	85.0	0	25	39 - 150
Toluene	ND	20	17	85.0	17	85.0	0	26	56 - 134
EthylBenzene	ОМ	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__690.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>] 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

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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 9506868-96A 9506868-05A

9506942-014

Cynthia Schreiner, QC Officer