Field data collected during the sampling event indicate groundwater elevations have increased relative to last quarter. The groundwater appears to flow from the northeast to the south under varying gradients. Analytical results showed no significant change in constituent concentration 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 December 5, 1994 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

Thomas K. Wheeler
California Registered Geologist No. 3925

TM/TKW:evm
Attachments

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

Brown and Caldwell

3480 Buskirk Avenue
Pleasant Hill, CA 94523-4342
P.O. Box 8045
Walnut Creek, CA 94596-1220
(510) 937-9010
FAX (510) 937-9026

January 13, 1995

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

11-1564-04/1

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

Dear Mr. Cobb:

Brown and Caldwell conducted the fourth quarter groundwater monitoring event at E-Z Serve Management Company's Former Station #100877, 525 West A Street, Hayward, California on December 5 and 6, 1994. The work performed at the subject site included collecting depth-to-groundwater measurements from 11 groundwater monitoring wells, purging and sampling 10 wells, and submitting the groundwater samples to SPL Inc. (SPL), an analytical laboratory located in Houston, Texas and certified by the State of California Department of Toxic Substance Control for analysis of hazardous materials. Field work was performed following the procedures outlined in Attachment A.

Summary of Findings

Depth-to-water measurements were collected using an oil-water interface probe. Free product was identified in Well MW-1A, therefore, this well was not sampled. A petroleum odor was identified in Wells MW-3, MW-6, MW-7, MW-9, and MW-10. 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. SPL reported receiving the samples at a temperature of 3° Celsius. 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.

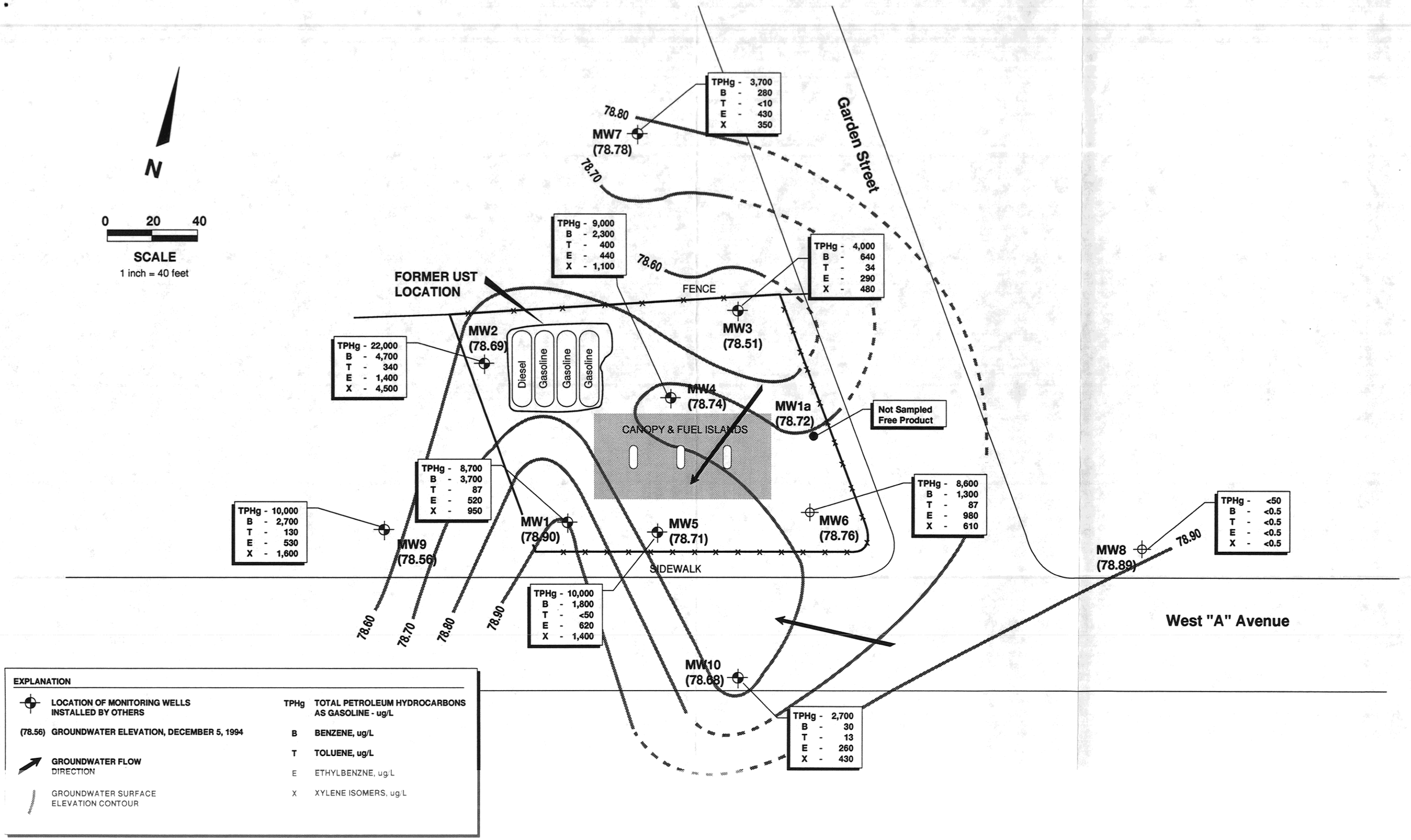

Figure 1 Groundwater Surface Elevation Contour and Petroleum Hydrocarbon Constituent Distribution Map for December 5, 1994
Former E-Z Serve Station #100877, 525 West A Street, Hayward, California

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)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration (μg/L) TPHg	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
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	75.87	Well Not Sampled				
	5-Dec-94		18.87	0.07	78.72	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
	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

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)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration (μg/L)				
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
MW-3	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
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
	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

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)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration ($\mu g/L$)				
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
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	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
	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	620	1,400
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

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)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration (μg/L)				
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
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	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
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
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
	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
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

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)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	EPA Methods 8015 and 8020 Concentration (μg/L)				
						TPHg	Benzene	Toluene	Ethylbenzene	Xylenes
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

ATTACHMENT A

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

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.

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 and Caldwell Consultants

CALL TO FIND OUT IF DRUMS @ SITE
BONNIE SHIVELER 510 783-4929
22042 VICTORY, HAYWARD

FIELD DATA

JOB NAME: EE-SERVE - HAYWARD
CLIENT: EE-SERVE
LOCATION: GARDEN AVE & A ST. HAYWARD, CA
CONTACT: TODD MILLER
JOB NO: 1564-04
PHONE: 210-2278
DATE: 12-5, 6-94
SECONDARY:
PROJ. MGR: TOM WHEELER
PHONE:
FIELD PERSONNEL: McILVENNA
SAFETY OFFICER: McILVENNA
H&S PLAN ONSITE? (YES) / (NO)
WEATHER: ~~OFF/ON RAIN~~ CLOUDY, COOL - 54°F
pH INSTRUMENT: YSI #3500
SER. NO:
pH 4.0 = 4.0
pH 7.0 = 7.0
pH 10.0 = 10.0
CONDUCTIVITY INSTRUMENT: YSI #3500
SER. NO:
INTERNAL CALIBRATION PERFORMED (YES) / (NO)
OTHER INSTRUMENTATION: OKS OIL/WATER INTERFACE PROBE

1) 0734 - PICK UP TRAILER @ U-HAUL, CONCORD
2) 0812 PICK UP DRUMS @ WHSE
3) 0815 - LEAVE FOR SITE
4) 0926 - ARRIVE SITE
5) 0940 - BEGIN TAKING SWLs
6) 1015 -
7) 1045 - PLACE TRIP BLANK / 100877-T.B. IN COOLER

SITE NOTES: DRUMS @ WELLS # 3&6 HAD BEEN DUMPED OVER, LAYING ON THEIR SIDES.
* TRASH HAS BEEN DUMPED N/W CORNER OF FENCED IN AREA (NEAR MW-2)
* FENCE NEAR MW-3 HAS BEEN PUSHED OVER ~~NEAR MW-~~ (APPROX. 12' SECTION
* FOUND STOLEN PURGE NEAR MW-6, PHONED POLICE

8) 1100 - CALIBRATE pH, S.C., TEMP. METERS. pH-4=4.0, 7=7.0, 10=10.0 / S.C.; 1026=1000
9) 1113 - BEGIN PURGING MW-8
10) 1132 - SAMPLE MW-8 / 100877-MW-8
11) 1150 - BEGIN PURGING MW-9
12) 1209 - SAMPLE MW-9 / 100877-MW-9
* 13) 1210 - ALAMEDA SHERIFF ARRIVED TO REPORT ON STOLEN PURGE
14) 1230 - BEGIN PURGING MW-10
15) 1248 - SAMPLE MW-10 / 100877-MW-10
16) 1305 - COLLECT FIELD BLANK @ MW-7, LAB # 100877-MW-7FB
17) 1310 - BEGIN PURGING MW-7
18) 1404 - SAMPLE MW-7 / 100877-MW-7, DUPLICATE # MW-7D / 100877-MW-7D
19) 1410 - BEGIN PURGING MW-1
20) 1456 - SAMPLE MW-1 / 100877-MW-1

* FIRE DEPT. SHOWED UP, HAD RECEIVED CALL OF SOMEONE PUMPING WATER INTO SEWERS, WAS UNAWARE OF WELLS @ SITE

21) 1525 - BEGIN PURGING MW-5
22) 1600 - SAMPLE MW-5 / 100877-MW-5
23) 1620 - LEAVE SITE

TUES 12/6
1) 0730 - LEAVE FOR SITE

1564	04	EE-SERVE, HAYWARD - YEARLY MONITORING	12-5,6	SHEET NO. 1
JOB NUMBER		SUBJECT	DATE	

Brown and Caldwell Consultants

FIELD DATA

JOB NAME: EZ-SERVE - HAYWARD | CLIENT: EZ-SERVE

LOCATION: GARDEN AVE @ A' ST, HAYWARD, CA | CONTACT: TODD MILLER

JOB NO: 1564-04 | PHONE: 210-7278

DATE: 12-6-94 | SECONDARY:

PROJ. MGR: T. WHEELER | PHONE:

FIELD PERSONNEL: M°FIVENNA

SAFETY OFFICER: M°IVENNA | H&S PLAN ONSITE? (YES) / (NO) | WEATHER: RAINING

pH INSTRUMENT: YSI # 3500 | SER. NO: | pH 4.0 = 4.0 | pH 7.0 = 7.0 | pH 10.0 = 10.0

CONDUCTIVITY INSTRUMENT: YSI # 3500 | SER. NO: | INTERNAL CALIBRATION PERFORMED (YES) / (NO)

OTHER INSTRUMENTATION:

CONT,

2) 0800 - STOP TO REFUEL VEHICLE
3) 0840 - ARRIVE SITE
4) 0900 - BEGIN PURGING MW-2
5) 0945 - SAMPLE MW-2 / 100877-MW-2
6) 0955 - BEGIN PURGING MW-4
7) 1030 - SAMPLED MW-4 / 100877-MW-4
8) 1040 - BEGIN PURGING MW-3
9) 1115 - SAMPLE MW-3 / 100877-MW-3
10) 1130 - BEGIN PURGING MW-6
11) 1220 - SAMPLE MW-6 / 100877-MW-6
12) 1235 - LEAVE SITE

DRUMS @ SITE

4 - SOIL 23 - WATER, APPROX. 1,165 GALS

1564-02 JOB NUMBER	04	EZ-SERVE, HAYWARD - 1/4 TRLY MONITORING SUBJECT	12/6/94 DATE	SHEET NO. 2/2

Brown and Caldwell

BROWN & CALDWELL
WELL INFORMATION DATA

DATE: 12-5-94

JOB NAME: EE-SERVE, HAYWARD

JOB #: 1564-04

B&C PERSONNEL: MCIVENNA

LOCK TYPE: MASTER #2402

WEATHER: CLOUDY, COOL -54°F

LID TYPE: EMCO-WHEATON

INSTRUMENT: OBS/OIL, WATER PROBE

WELL ID	SWL	TD	DIA	TIME	COMMENTS
MW-1	17.83'	32.10'	4"	1025	
MW-1A	18.80'-18.87'	28.40'	2"	1008	FREE PRODUCT - .07'
MW-2	19.37'	32.30'	4"	1029	
MW-3	19.15'	32.10'	4"	1013	FUEL ODOR / 55 GAL DRUM KNOCKED OVER, WATER SPILLED
MW-4	18.36'	32.11'	4"	1035	
MW-5	18.02'	32.48'	4"	1020	
MW-6	18.33'	32.10'	4"	1017	FUEL ODOR / 55 GAL DRUM KNOCKED OVER, WATER SPILLED
MW-7	18.66'	30.06'	2"	1001	FUEL ODOR
MW-8	18.72'	32.15'	2"	0954	BOX FULL OF WATER
MW-9	16.85'	31.60'	2"	0940	FUEL ODOR, WATER IN BOX
MW-10	18.43'	31.80'	2"	0947	WATER IN BOX / FUEL ODOR

BROWN AND CALDWELL

Well No. MW-10

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: CLOUDY, COOL - 52°F

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 2" x 6.5"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 18.43'

b. Total Well Depth = 31.80'

c. Length of Water Column = 13.37' (b. - a.)

d. Casing Volume = 2.13g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 5.46g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 7.59g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/WATERRA

b. Required Purge Volume (@ 7.59 gallons per well volume) = 22.79 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate 2GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% > 60 min), 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
8	1234	19.7	6.71	839		CLOUDY, SILTY, GRAY-GREEN, FUEL ODOR		30'
16	1238	20.2	6.67	848		SAME		"
24	1242	20.0	6.77	842		CLEANER, CLEARER		"
.5	1248	18.9	6.74	819		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40ml VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB #100877-MW-10

BROWN AND CALDWELL

Well No. MW-1

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: CLOUDY, COOL - 52°F

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4" x 8"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 17.83'

b. Total Well Depth = 32.10'

c. Length of Water Column = 14.27' (b. - a.)

d. Casing Volume = 9.27g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 16.09g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 16.0 gallons per well volume) = 48.28 GAL

c. Field Testing; Equipment Used YSI #3500 pH, S.C., TEMP., HACH TURB.

d. Pump Rate .85 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% > 60 min), 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
17	1420	19.3	6.55	1,082		CLEAN, CLEAR		30'
34	1440	20.4	6.48	1,097		SAME		1
50	1450	18.9	6.48	1,063		SAME		
.5	1456	19.0	6.55	1,020		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40mL VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB #100877-MW-1

BROWN AND CALDWELL

Well No. MW-1A

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE, HAYWARD Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: CLOUDY, COOL

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 2" x 6.5".

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 18.80' - 18.87' / FREE PRODUCT

b. Total Well Depth = 28.40

c. Length of Water Column = 9.53' (b. - a.)

d. Casing Volume = 1.52g (c. x [gal/ft casing])

e. Length of filter pack = 9.53'

f. Filter pack volume = 5.13g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 6.65g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method N/A

b. Required Purge Volume (@ ____ gallons per well volume) = N/A

c. Field Testing; Equipment Used N/A

d. Pump Rate N/A

e. Method of GW Disposal N/A

f. Recovery Rate: Slow (90% > 60 min), Medium (90% 30-60 min), Fast (90% < 10 min) N/A

Volume Removed (gal)	Time	T°c	pH	Spec. Conductivity	Turbidity (NTU's)	Color/ Description	SWL	Pump Placement

WELL NOT SAMPLED / FREE PRODUCT

3. SAMPLE COLLECTION: Method N/A Container N/A Preservation N/A

Analysis N/A

COMMENTS, REMARKS

BROWN AND CALDWELL

Well No. MW-2

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1764-04 Date: 12-6-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: RAINING

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4" x 8"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 19.37'

b. Total Well Depth = 32.30'

c. Length of Water Column = 13.13' (b. - a.)

d. Casing Volume = 8.53g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 15.35g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 15.35 gallons per well volume) = 46.06 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate 1.9 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% > 60 min), 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
16	0915	19.3	6.71	1,123		MOSTLY CLEAR, SLIGHT FUEL ODOR		30'
32	0932	19.3	6.69	1,134		SLIGHTLY CLEANER, CLEARER		↓
48	0940	20.5	6.66	1,143		SAME		↓
,5	0945	18.7	6.70	1,093		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3 x 40ml L VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB# 100877-MW-2

BROWN AND CALDWELL

Well No. MW-3

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-6-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: RAINING

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4"x8"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 19.15'

b. Total Well Depth = 32.10'

c. Length of Water Column = 12.95' (b. - a.)

d. Casing Volume = 8.41g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 15.23g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 15.23 gallons per well volume) = 45.71 GAL

c. Field Testing; Equipment Used YSI #3500 pH, S.C., TEMP., HACH TURB.

d. Pump Rate 1.5 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% >60 min), 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
16	1050	18.5	6.61	1,009		SLIGHTLY CLOUDY, FUEL ODOR		30'
32	1100	19.5	6.61	1,014		CLEAN, CLEAR, FUEL ODOR		1
47	1110	19.9	6.62	1,027		SAME		
.5	1115	18.4	6.66	997		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40mL VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB# 100877-MW-3

BROWN AND CALDWELL

Well No. MW-4

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1764-04 Date: 12-6-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: EARLIER RAIN

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4" x 8"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 18.36'

b. Total Well Depth = 32.11'

c. Length of Water Column = 13.75' (b. - a.)

d. Casing Volume = 8.93g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 15.75g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 15.75 gallons per well volume) = 47.27 GAL

c. Field Testing; Equipment Used YSI #3500 pH, S.C., TEMP., HACH TURB.

d. Pump Rate 1.6 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% > 60 min), 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
16	1005	19.4	6.76	1,075		MOSTLY CLEAN, CLEAR, SLIGHT FUEL ODOR		30'
32	1015	19.1	6.72	1,083		CLEANER, CLEARER		"
49	1025	19.3	6.71	1,081		SAME		"
.5	1030	18.7	6.79	1,053		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3 x 40ml VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB # 100877-MW-4

BROWN AND CALDWELL

Well No. MW-5

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: McILVENNA

Weather Conditions: CLOUDY, COOL - 52°F

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4" x 8"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft)	= 18.02'	
b. Total Well Depth	= 32.48'	
c. Length of Water Column	= 14.46'	(b. - a.)
d. Casing Volume	= 9.39g	(c. x [gal/ft casing])
e. Length of filter pack	= 10'	
f. Filter pack volume	= 6.82g	(e. x [gal/ft filter pack])
g. **TOTAL WELL VOLUME**	= 16.21g	(d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 16.21 gallons per well volume) = 48.65 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate 1.7 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% >60 min), 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
17	1535	19.7	6.50	1,045		CLEAN, CLEAR, FUEL ODOR		30'
34	1545	19.7	6.53	1,050		SAME		"
50	1555	19.9	6.48	1,051		SAME		"
.5	1600	18.6	6.51	1,062		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40ml VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB# 100877-MW-5

BROWN AND CALDWELL

Well No. MW-6

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-C4 Date: 12-6-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: RAINING (RECENT)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 4" x 8"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 18.33'

b. Total Well Depth = 32.10'

c. Length of Water Column = 13.77' (b. - a.)

d. Casing Volume = 8.95g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 6.82g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 15.77g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TIZASH W/WATERRA

b. Required Purge Volume (@ 15.77 gallons per well volume) = 47.31 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate 1.1 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% > 60 min), 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
16	1143	20.9	6.42	1,111		CLEAR, CLEAR, FUEL ODOR		30'
32	1158	21.0	6.40	1,124		SAME		1
49	1214	21.1	6.44	1,118		SAME		
.5	1220	19.9	6.49	1,084		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40mL VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB# 100877-MW-6

BROWN AND CALDWELL

Well No. MW-7

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: MCIVENNA

Weather Conditions: CLOUDY, LOW - 50°F

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 2" x 6.5"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 18.66'

b. Total Well Depth = 30.06'

c. Length of Water Column = 11.40' (b. - a.)

d. Casing Volume = 1.86g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 5.46g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 7.28g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 3.0 gallons per well volume) = 21.85 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate .40 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% > 60 min), ~~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
8	1317	20.4	6.64	1,067		GREEN-BROWN, FINE SILTS, SANDS		30'
16	1337	19.2	6.60	1,091		SAME		
24	1357	20.5	6.60	1,131		SAME		
.5	1404	18.2	6.67	1,026		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3 x 40ml VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB# 100877-MW-7 / COLLECT DUPLICATE # 100877-MW-7D

COLLECT FIELD BLANK # 100877-MW-7FB

BROWN AND CALDWELL

Well No. MW-8

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: McILVENNA

Weather Conditions: CLOUDY, COOL - 54°F

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 18.72'

b. Total Well Depth = 32.15'

c. Length of Water Column = 13.43' (b. - a.)

d. Casing Volume = 2.14 g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 5.46g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 7.60g (d. + f.)

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 2"x6.5"

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH PUMP W/ WATERRA

b. Required Purge Volume (@ 7.6 gallons per well volume) = 22.82 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate 1.75 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% >60 min), 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
8	1118	20.3	6.57	1,062		BROWN, SILTY, SANDY		30'
16	1122	20.7	6.60	1,087		CLEANER, STILL FINE SILTS + SANDS		↓
24	1126	21.3	6.59	1,100		CLEARING		↓
.5	1132	19.3	6.64	1,062		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40ml VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB # 100877-MW-8

BROWN AND CALDWELL

Well No. MW-9

GROUNDWATER SAMPLE COLLECTION RECORD

Project Name: EZ-SERVE Job No.: 1564-04 Date: 12-5-94

Location: HAYWARD, CA

Samplers Name: McIVENNA

Weather Conditions: CLOUDY, COOL ~54°F

TOC Elevation (from LS) _____

Water Table Elev. _____

Tape Corr. (TC) _____

Well Dia. 2"x6.5"

1. WATER LEVEL DATA: (from TOC)

a. Depth to water (ft) = 16.85'

b. Total Well Depth = 31.60'

c. Length of Water Column = 14.75' (b. - a.)

d. Casing Volume = 2.36g (c. x [gal/ft casing])

e. Length of filter pack = 10'

f. Filter pack volume = 5.46g (e. x [gal/ft filter pack])

g. **TOTAL WELL VOLUME** = 7.82g (d. + f.)

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	=1.7 gal/ft
8-in. casing	=2.60 gal/ft
10-in. casing	= 4.1 gal/ft
12-in. casing	= 5.0 gal/ft

2. WELL PURGING DATA:

a. Purge Method TRASH W/ WATERRA

b. Required Purge Volume (@ 7.82 gallons per well volume) = 23.46 GAL

c. Field Testing; Equipment Used YSI #3500 PH, S.C., TEMP., HACH TURB.

d. Pump Rate 2 GPM

e. Method of GW Disposal 55 GAL DRUM

f. Recovery Rate: Slow (90% >60 min), 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
8	1055	19.9	6.56	1,084		GREEN-GRAY, HEAVY FUEL ODOR, FINE SILTS, SANDS		30'
16	1159	20.0	6.54	1,098		SOME CLEARING		1
24	1203	20.5	6.55	1,097		SAME		
.5	1209	18.7	6.60	1,037		SAMPLED		

3. SAMPLE COLLECTION: Method DISP. BAILER Container 3x40ml VOA Preservation HCL

Analysis TPH (GAS) 8015, BTEX 8020

COMMENTS, REMARKS

LAB# 100877 - MW-9

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

SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: 94-12-312

Approved for release by:

Date: 12/13/94

Brent Barron, Project Manager

Date: 12/16/94

S. Sample, Laboratory Director

Certificate of Analysis No. H9-9412312-01

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 10:45:00
DATE RECEIVED: 12/07/94

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	102		
4-Bromofluorobenzene	86		
METHOD 8020***			
Analyzed by: YN			
Date: 12/11/94			
Petroleum Hydrocarbons - Gasoline	ND	0.1 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	95		
4-Bromofluorobenzene	79		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/11/94			

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

SPL, Inc., - Project Manager

Certificate of Analysis No. H9-9412312-02

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 11:32:00
DATE RECEIVED: 12/07/94

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	108		
4-Bromofluorobenzene	115		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	110		
4-Bromofluorobenzene	83		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

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

SPL, Inc., - Project Manager

Certificate of Analysis No. H9-9412312-03

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

DATE: 01/13/95

PROJECT: EZ Serve #100877
SITE: Hayward, CA
SAMPLED BY: Brown & Cadwell
SAMPLE ID: 100877-MW-9

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 12:09:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	2700	10 P	µg/L
TOLUENE	130	10 P	µg/L
ETHYLBENZENE	530	10 P	µg/L
TOTAL XYLENE	1600	10 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	4960		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	129		
4-Bromofluorobenzene	117		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	10	1.0 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	136 «		
4-Bromofluorobenzene	88		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

(P) - Practical Quantitation Limit « - Recovery beyond control limits.

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

Certificate of Analysis No. H9-9412312-04

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 12:48:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	30	1 P	µg/L
TOLUENE	13	1 P	µg/L
ETHYLBENZENE	260	1 P	µg/L
TOTAL XYLENE	430	1 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	733		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	130		
4-Bromofluorobenzene	146 «		
METHOD 8020***			
Analyzed by: YN			
Date: 12/10/94			
Petroleum Hydrocarbons - Gasoline	2.7	0.1 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	211 «		
4-Bromofluorobenzene	151 «		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/10/94			

(P) - Practical Quantitation Limit « - Recovery beyond control limits.

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

Certificate of Analysis No. H9-9412312-05

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 13:05:00
DATE RECEIVED: 12/07/94

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	105		
4-Bromofluorobenzene	109		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	108		
4-Bromofluorobenzene	81		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

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

SPL, Inc., - Project Manager

Certificate of Analysis No. H9-9412312-06

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 14:04:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	280	10 P	µg/L
TOLUENE	ND	10 P	µg/L
ETHYLBENZENE	430	10 P	µg/L
TOTAL XYLENE	350	10 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1060		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	110		
4-Bromofluorobenzene	122		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	3.7	1.0 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	122		
4-Bromofluorobenzene	95		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

(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

SPL, Inc., - Project Manager

Certificate of Analysis No. H9-9412312-07

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 14:04:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	310	10 P	µg/L
TOLUENE	ND	10 P	µg/L
ETHYLBENZENE	540	10 P	µg/L
TOTAL XYLENE	540	10 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1390		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	108		
4-Bromofluorobenzene	94		
METHOD 8020***			
Analyzed by: YN			
Date: 12/11/94			
Petroleum Hydrocarbons - Gasoline	3.9	1.0 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	89		
4-Bromofluorobenzene	64		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/11/94			

(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

SPL, Inc., - Project Manager

Certificate of Analysis No. H9-9412312-08

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 14:56:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	3700	50 P	µg/L
TOLUENE	87	50 P	µg/L
ETHYLBENZENE	520	50 P	µg/L
TOTAL XYLENE	950	50 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	5257		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	112		
4-Bromofluorobenzene	111		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	8.7	1.0 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	97		
4-Bromofluorobenzene	66		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/11/94			

(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

Certificate of Analysis No. H9-9412312-09

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/05/94 16:00:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1800	50 P	µg/L
TOLUENE	ND	50 P	µg/L
ETHYLBENZENE	620	50 P	µg/L
TOTAL XYLENE	1400	50 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	3820		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	109		
4-Bromofluorobenzene	110		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	10	5.0 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	115		
4-Bromofluorobenzene	82		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

(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

SPL, Inc., - Project Manager

Certificate of Analysis No. H9-9412312-10

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/06/94 09:45:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	4700	5 P	µg/L
TOLUENE	340	5 P	µg/L
ETHYLBENZENE	1400	5 P	µg/L
TOTAL XYLENE	4500	5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	10940		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	142 «		
METHOD 8020***			
Analyzed by: DAO			
Date: 12/08/94			
Petroleum Hydrocarbons - Gasoline	22	0.5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	189 «		
4-Bromofluorobenzene	124		
Modified 8015 - Gasoline			
Analyzed by: DAO			
Date: 12/08/94			

(P) - Practical Quantitation Limit « - Recovery beyond control limits.

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

Certificate of Analysis No. H9-9412312-11

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/06/94 10:30:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	2300	5 P	µg/L
TOLUENE	400	5 P	µg/L
ETHYLBENZENE	440	5 P	µg/L
TOTAL XYLENE	1100	5 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	4240		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	143 «		
4-Bromofluorobenzene	118		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	9.0	0.5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	157 «		
4-Bromofluorobenzene	92		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

(P) - Practical Quantitation Limit « - Recovery beyond control limits.

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

Certificate of Analysis No. H9-9412312-12

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/06/94 11:15:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	640	25 P	µg/L
TOLUENE	34	25 P	µg/L
ETHYLBENZENE	290	25 P	µg/L
TOTAL XYLENE	480	25 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	1444		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	112		
4-Bromofluorobenzene	111		
METHOD 8020***			
Analyzed by: YN			
Date: 12/09/94			
Petroleum Hydrocarbons - Gasoline	4.0	2.5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	115		
4-Bromofluorobenzene	84		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/09/94			

(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

Certificate of Analysis No. H9-9412312-13

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

DATE: 01/13/95

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

PROJECT NO: 1564-04
MATRIX: LIQUID
DATE SAMPLED: 12/06/94 12:20:00
DATE RECEIVED: 12/07/94

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	1300	25 P	µg/L
TOLUENE	87	25 P	µg/L
ETHYLBENZENE	980	25 P	µg/L
TOTAL XYLENE	610	25 P	µg/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	2977		µg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	96		
4-Bromofluorobenzene	90		
METHOD 8020***			
Analyzed by: YN			
Date: 12/11/94			
Petroleum Hydrocarbons - Gasoline	8.6	2.5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	92		
4-Bromofluorobenzene	63		
Modified 8015 - Gasoline			
Analyzed by: YN			
Date: 12/11/94			

(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

QUALITY CONTROL DOCUMENTATION

Matrix: Aqueous Batch Id: HP_R941208051500
Units: µg/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Benzene	ND	50	46	92.0	54 - 126
Toluene	ND	50	45	90.0	61 - 125
EthylBenzene	ND	50	43	86.0	57 - 129
O Xylene	ND	50	44	88.0	32 - 160
M & P Xylene	ND	100	91	91.0	32 - 160

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Benzene	ND	20	21	105	20	100	4.88	19	61 - 131
Toluene	ND	20	20	100	18	90.0	10.5	18	57 - 127
EthylBenzene	ND	20	19	95.0	18	90.0	5.41	18	55 - 131
O Xylene	ND	20	18	90.0	17	85.0	5.71	20	40 - 130
M & P Xylene	ND	40	35	87.5	32	80.0	8.96	16	43 - 152

Analyst: DAO
Sequence Date: 12/08/94
SPL ID of sample spiked: 9412220-06A
Sample File ID: R___312.TX0
Method Blank File ID:
Blank Spike File ID: R___303.TX0
Matrix Spike File ID: R___306.TX0
Matrix Spike Duplicate File ID: R___309.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):

9412310-04A 9412310-03A 9412310-01A 9412309-05A
9412309-04A 9412309-03A 9412309-02A 9412309-01A
9412304-01A 9412304-03A 9412153-04A 9412152-01A
9412312-10A 9412220-04A 9412220-03A 9412220-02A
9412220-01A 9412220-06A 9412219-07A

Idelis Williams, QC Officer

Matrix: Aqueous Batch Id: HP_R941209021600
Units: µg/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Benzene	ND	50	50	100	54 - 126
Toluene	ND	50	48	96.0	61 - 125
EthylBenzene	ND	50	48	96.0	57 - 129
O Xylene	ND	50	47	94.0	32 - 160
M & P Xylene	ND	100	100	100	32 - 160

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Benzene	ND	20	26	130	25	125	3.92	19	61 - 131
Toluene	ND	20	25	125	24	120	4.08	18	57 - 127
EthylBenzene	ND	20	25	125	23	115	8.33	18	55 - 131
O Xylene	ND	20	24	120	23	115	4.26	20	40 - 130
M & P Xylene	ND	40	46	115	43	108	6.28	16	43 - 152

Analyst: DAO
Sequence Date: 12/09/94
SPL ID of sample spiked: 9412310-06A
Sample File ID: R___345.TXO
Method Blank File ID:
Blank Spike File ID: R___338.TXO
Matrix Spike File ID: R___347.TXO
Matrix Spike Duplicate File ID: R___349.TXO

* = 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):

9412312-08A 9412312-09A 9412312-12A 9412312-06A
9412221-05A 9412312-03A 9412220-05A 9412220-08A
9412220-07A 9412312-11A 9412312-05A 9412312-02A
9412310-06A 9412310-05A

Idelis Williams, QC Officer

Matrix: Aqueous
Units: µg/L

Batch Id: HP_R941210233500

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Benzene	ND	50	51	102	54 - 126
Toluene	ND	50	49	98.0	61 - 125
EthylBenzene	ND	50	49	98.0	57 - 129
O Xylene	ND	50	47	94.0	32 - 160
M & P Xylene	ND	100	100	100	32 - 160

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Benzene	38	20	64	130	57	95.0	31.1 *	19	61 - 131
Toluene	21	20	44	115	39	90.0	24.4 *	18	57 - 127
EthylBenzene	ND	20	22	110	20	100	9.52	18	55 - 131
O Xylene	10	20	32	110	26	80.0	31.6 *	20	40 - 130
M & P Xylene	18	40	61	108	54	90.0	18.2 *	16	43 - 152

Analyst: YN
Sequence Date: 12/09/94
SPL ID of sample spiked: 9412354-01A
Sample File ID: R___394.TXO
Method Blank File ID:
Blank Spike File ID: R___377.TXO
Matrix Spike File ID: R___412.TXO
Matrix Spike Duplicate File ID: R___413.TXO

* = 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):

9412346-03A 9412346-02A 9412346-04A 9412346-01A
9412352-09A 9412352-05A 9412352-06A 9412352-07A
9412352-08A 9412352-03A 9412352-04A 9412354-01A
9412221-07A 9412221-04A 9412220-11A 9412220-09A
9412219-05A 9412312-04A 9412220-12A

Idelis Williams, QC Officer

Matrix: Aqueous
Units: µg/L

Batch Id: HP_S941211184600

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Benzene	ND	50	49	98.0	54 - 126
Toluene	ND	50	52	104	61 - 125
EthylBenzene	ND	50	54	108	57 - 129
O Xylene	ND	50	54	108	32 - 160
M & P Xylene	ND	100	120	120	32 - 160

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Benzene	ND	20	18	90.0	18	90.0	0	19	61 - 131
Toluene	ND	20	22	110	23	115	4.44	18	57 - 127
EthylBenzene	ND	20	21	105	22	110	4.65	18	55 - 131
O Xylene	ND	20	18	90.0	17	85.0	5.71	20	40 - 130
M & P Xylene	ND	40	42	105	37	92.5	12.7	16	43 - 152

Analyst: YN
Sequence Date: 12/10/94
SPL ID of sample spiked: 9412353-08A
Sample File ID: SS__052.TX0
Method Blank File ID:
Blank Spike File ID: SS__021.TX0
Matrix Spike File ID: SS__056.TX0
Matrix Spike Duplicate File ID: SS__059.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):

9412312-04A	9412312-05A	9412353-08A	9412312-13A
9412312-11A	9412312-09A	9412312-03A	9412353-05A
9412312-07A	9412312-06A	9412312-08A	9412354-04A
9412354-02A	9412354-03A	9412221-01A	9412221-03A
9412221-08A	9412221-06A	9412312-01A	9412221-09A

Idelis Williams, QC Officer

Modified 8015 - Gasoline

Matrix: Aqueous
Units: mg/L

Batch Id: HP_R941208063800

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Petroleum Hydrocarbons	ND	0.90	1.00	111	56 - 139

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Petroleum Hydrocarbons	ND	0.9	0.85	94.4	0.77	85.6	9.78	18	40 - 158

Analyst: DAO
Sequence Date: 12/08/94
SPL ID of sample spiked: 9412220-01A
Sample File ID: RR__313.TX0
Method Blank File ID:
Blank Spike File ID: RR__304.TX0
Matrix Spike File ID: RR__305.TX0
Matrix Spike Duplicate File ID: RR__308.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):

9412310-04A 9412310-03A 9412310-01A 9412309-05A
9412309-04A 9412309-03A 9412309-02A 9412309-01A
9412304-01A 9412304-03A 9412153-04A 9412152-01A
9412312-10A 9412220-04A 9412220-03A 9412220-02A
9412220-01A 9412220-06A 9412219-07A

Idelis Williams, QC Officer

Modified 8015 - Gasoline

Matrix: Aqueous
Units: mg/L

Batch Id: HP_R941209031100

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Petroleum Hydrocarbons	ND	0.9	1.0	111	56 - 139

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Petroleum Hydrocarbons	0.7	0.9	1.84	127	1.63	103	20.9 *	18	40 - 158

Analyst: DAO
Sequence Date: 12/09/94
SPL ID of sample spiked: 9412310-05A
Sample File ID: RR__344.TX0
Method Blank File ID:
Blank Spike File ID: RR__337.TX0
Matrix Spike File ID: RR__346.TX0
Matrix Spike Duplicate File ID: RR__350.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):

9412310-02A 9412312-09A 9412312-12A 9412312-06A
9412221-05A 9412312-03A 9412220-05A 9412221-05A
9412220-08A 9412220-07A 9412312-11A 9412312-05A
9412312-02A 9412310-06A 9412310-05A

Idelis Williams, QC Officer

Modified 8015 - Gasoline

Matrix: Aqueous
Units: mg/L

Batch Id: HP_R941210125600

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Petroleum Hydrocarbons	ND	0.9	1.03	114	56 - 139

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Petroleum Hydrocarbons	ND	0.9	.57	22.8 *	.80	88.9	118 *	18	40 - 158

Analyst: YN
Sequence Date: 12/10/94
SPL ID of sample spiked: 9412352-04A
Sample File ID: RR__395.TXO
Method Blank File ID:
Blank Spike File ID: RR__380.TXO
Matrix Spike File ID: RR__414.TXO
Matrix Spike Duplicate File ID: RR__415.TXO

* = 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):

9412346-03A 9412346-04A 9412346-01A 9412352-09A
9412352-05A 9412352-06A 9412352-07A 9412352-08A
9412352-10A 9412352-03A 9412352-04A 9412354-01A
9412221-07A 9412221-04A 9412220-11A 9412220-09A
9412312-04A 9412220-12A

Idelis Williams, QC Officer

Modified 8015 - Gasoline

Matrix: Aqueous
Units: mg/L

Batch Id: HP_S941210193900

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Petroleum Hydrocarbons	ND	0.9	0.90	100	56 - 139

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
Petroleum Hydrocarbons	ND	0.9	0.35	38.9 *	0.77	85.6	75.0 *	18	40 - 158

Analyst: YN
Sequence Date: 12/10/94
SPL ID of sample spiked: 9412312-05A
Sample File ID: S___053.TX0
Method Blank File ID:
Blank Spike File ID: S___024.TX0
Matrix Spike File ID: S___057.TX0
Matrix Spike Duplicate File ID: S___058.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):

9412312-04A	9412312-05A	9412353-08A	9412312-13A
9412312-11A	9412312-09A	9412312-03A	9412353-05A
9412312-07A	9412312-06A	9412312-08A	9412354-04A
9412354-02A	9412354-03A	9412221-01A	9412221-03A
9412221-08A	9412221-06A	9412312-01A	9412221-09A

Idelis Williams, QC Officer

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

94/12312

Page 1 of 2

Environmental Laboratory
8880 Interchange Drive
Houston, Texas 77054
713/660-0901

Analysis Request and Chain of Custody Record

Project No.	Client/Project Name	Project Location
1564-04	EZ-SERVE #100877	HAYWARD, CA

Field Sample No./ Identification	Date and Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, Etc.)	Preservative	ANALYSIS REQUESTED	LABORATORY REMARKS
100877-T.B.	12-5-94/1045	X		2x40mL VOA	LIQUID	HCL	TPH(GAS) 5030/8015, BTEX 8020	
100877-MW-8	1132			3x40mL VOA				
100877-MW-9	1209							
100877-MW-10	1248							
100877-MW-FB	1305							
100877-MW-7	1404							
100877-MW-7D	1404							
100877-MW-1D	1456							
100877-MW-5D	1600							

Samplers: (Signature)	Relinquished by: (Signature)	Date: 12-6-94 Time: 1500	Received by: (Signature)	Date: Time:	Intact
KEVIN L. MCILVENNA	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Intact
Affiliation: BROWN + CALDWELL	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Intact 3°C

SAMPLER REMARKS: SHIPPED VIA FED-EX, COOLERS ON ICE & BLOCK ICE

Seal #

Received for laboratory: (Signature) — Date: 12/7 Time: 1000

Data Results to:

Laboratory No.

94/12312

Environmental Laboratory
8880 Interchange Drive
Houston, Texas 77054
713/660-0901

Analysis Request and Chain of Custody Record

Project No.	Client/Project Name	Project Location
1564-04	EE-SERVE #100877	HAYWARD, CA

Field Sample No./ Identification	Date and Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, Etc.)	Preservative	ANALYSIS REQUESTED	LABORATORY REMARKS
100877-MW-2	12/6/94/0945	X		3x40ml VOA	LIQUID	HCL	TPH(GAS) 5030/8015, BTEX 8020	
100877-MW-4	1030							
100877-MW-3	1115							
100877-MW-6	1220							

Samplers: (Signature)	Relinquished by: (Signature)	Date: 12-6-94 Time: 1500	Received by: (Signature)	Date: Time:	Intact
KEVIN L. McILVENNA	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Intact
Affiliation: BROWN & CALDWELL	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Intact 3°C
SAMPLER REMARKS:			Received for Laboratory: (Signature)	Date: 12/7 Time: 1000	Laboratory No.
Seal #			Data Results to:		

SPL HOUSTON ENVIRONMENTAL LABORATORY

SAMPLE LOGIN CHECKLIST

DATE: 12/7 TIME:_____ CLIENT NO._____
LOT NO._____ CONTRACT NO._____

CLIENT SAMPLE NOS._____

SPL SAMPLE NOS.: 9412312

		YES	NO
1.	Is a Chain-of-Custody form present?	✓	
2.	Is the COC properly completed?	✓	
	If no, describe what is incomplete:		
	If no, has the client been contacted about it?		
	(Attach subsequent documentation from client about the situation)		
3.	Is airbill/packing list/bill of lading with shipment?	✓	
	If yes, ID#: FEDEX		
4.	Is a USEPA Traffic Report present?		✓
5.	Is a USEPA SAS Packing List present?		
6.	Are custody seals present on the package?	✓	
	If yes, were they intact upon receipt?	✓	
7.	Are all samples tagged or labeled?	✓	
	Do the sample tags/labels match the COC?	✓	
	If no, has the client been contacted about it?		
	(Attach subsequent documentation from client about the situation)		
8.	Do all shipping documents agree?	✓	
	If no, describe what is in nonconformity:		

9. Condition/temperature of shipping container: 3°C WET ICE
10. Condition/temperature of sample bottles:_____
11. Sample Disposal?: SPL disposal ✓ Return to client_____

NOTES (reference item number if applicable):_____

ATTEST: R Dinsmore DATE: 12/7/94
DELIVERED FOR RESOLUTION: REC'D_____ DATE:_____
RESOLVED:_____ DATE:_____