



Chevron U.S.A. Products Company

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

March 22, 1993

Mr. Scott Seery
Alameda County Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Station # 9-1924, 4904 South Front Street, Livermore, CA

Attached groundwater monitoring report (GTI, 12/2/92)
Enclosed memorandum (Emcon Associates, 1/18/85)
Enclosed daily monitor records (Gettler-Ryan, 1/22/85)
Enclosed project update report (GTI, 2/14/85)
Enclosed groundwater monitoring well installation report (Kleinfelder, 3/11/85)
Enclosed monitoring data report (Gettler-Ryan, (8/24/87)

Dear Mr. Seery:

Attached you will find a report dated December 2, 1992, which was prepared by Chevron's consultant, Groundwater Technology, Inc. (GTI), to describe the results of groundwater monitoring performed on October 16, 1992. The direction of groundwater flow and the measured levels of dissolved hydrocarbons are consistent with data collected during previous site monitoring events.

In addressing your letter dated December 29, 1992, I have enclosed several documents for your file which should assist you in developing a better understanding of the subject site and the scope of work performed to date. In addition, I have instructed GTI to forward to you a copy of The Recovery System Report dated, December 12, 1985 and a copy of The Project Update Report dated, April 16, 1986. These transmittals contain information that should fill in the data gaps which were outlined in your letter.

All documentation describing well installation and construction is contained in the Emcon Associates Memorandum (1/18/85), the Kleinfelder Groundwater Monitoring Well Installation Report (3/11/85), and the GTI Recovery System Report (12/12/85). Unfortunately, there was no soil analytical testing or reporting done in association with any of these well installations. According to the document retrieval staff at Emcon there was no formal report issued beyond the preliminary reporting of the enclosed memorandum.

The Gettler-Ryan Daily Monitor Records (1/22/85), the GTI Project Update Reports (2/14/85 and 4/16/86), the GTI Recovery System Report (12/12/85), and the Gettler-Ryan Monitoring Data Report (8/24/87) all provide information pertaining to free product plume extent and volumes extracted.

The groundwater extraction system performance evaluations and the groundwater gradient maps which indicate the radius of influence imposed by the extraction system operation appear in the



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GTI Recovery System Report (12/1285). This report also mentions a preliminary pump test however, no data from this test is included. A request has been made to GTI for any information regarding this pump test and will be forwarded to you as it becomes available.

My file data indicates that underground storage tanks were replaced in January, 1985. Unfortunately, no closure report exists that would document soil and/or water sampling and analyses or tank condition upon removal. If these information become available during further investigation I will forward copies to Alameda County Health Care Services.

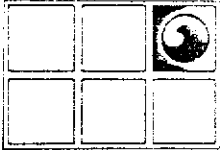
I apologize for the length of time required to get these data to you. I will look forward to discussing future action at this site with you after your review of the enclosed information. If you have any questions or comments, I can be reached at (510) 842-8695.

Sincerely,

Brett L. Hunter
Environmental Engineer
Site Assessment and Remediation

Attachment
Enclosures

cc: Eddie So, San Francisco Bay RWQCB, Oakland, CA (w/o enclosures)
Jeanne Price, 213 Del Mesa Carmel, Carmel, CA 93921 (w/o enclosures)
Dave Baker, Mobil Oil, 3225 Gallows Rd., Rm. 1W109, Fairfax, Virginia, 22037
(w/o enclosures)
Peter DeSantis, BP Oil, Northwest Division, Southcenter Place Bldg., 16400 Southcenter
Parkway, Suite 301, Tukwila, Washington, 98188 (w/o enclosures)
Bruce Eppler, GTI, West Sacramento, CA (w/o attachment, enclosures)



GROUNDWATER TECHNOLOGY, INC.

1401 Halyard Drive, Suite 140, West Sacramento, CA 95691, (916) 372-4700

FAX (916) 372-8781

December 2, 1992

Project No. 02020 2886

Mr. Brett L. Hunter
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583-0804

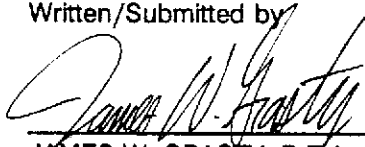
**RE: QUARTERLY MONITORING AND SAMPLING ACTIVITIES
CHEVRON SERVICE STATION 9-1924
4904 SOUTHFRONT ROAD
LIVERMORE, CALIFORNIA**

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected on October 16, 1992 at the above-referenced site. The eighteen site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. After measuring DTW, each monitoring well was purged and sampled except for monitoring well C-14 which did not recharge after purging and therefore could not be sampled. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and xylenes (BTEX), and total petroleum hydrocarbons-as-gasoline (TPH-G). Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody manifests are included. All purge water generated during the sampling process was collected in a Department of Transportation (DOT)-approved purge trailer and transported for recycling to the Chevron refinery in Richmond, California.

Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments please call our West Sacramento office.

Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

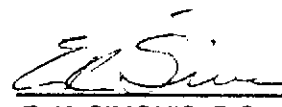


JAMES W. GRASTY, R.E.A.
Environmental Geologist
Project Manager

JWG/EKS:dh

Attachments
QTRRPT1.LTR

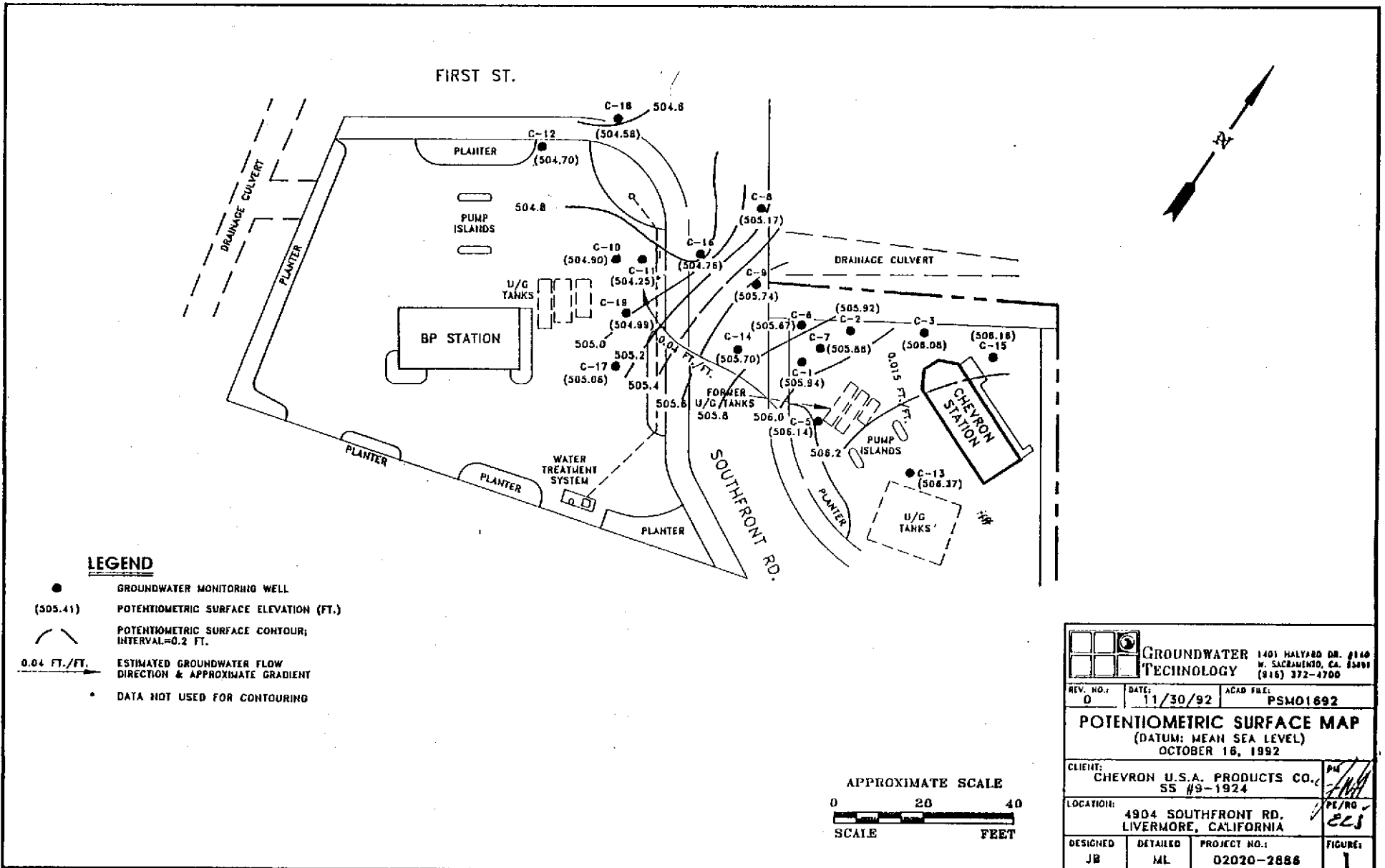
Groundwater Technology, Inc.
Reviewed/Approved by



E. K. SIMONIS, R.G.
Senior Environmental Geologist

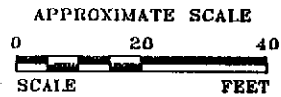


POTENTIOMETRIC SURFACE MAP



LEGEND

- GROUNDWATER MONITORING WELL
- (505.41) POTENTIOMETRIC SURFACE ELEVATION (FT.)
- POTENTIOMETRIC SURFACE CONTOUR; INTERVAL=0.2 FT.
- 0.04 FT./FT. ESTIMATED GROUNDWATER FLOW DIRECTION & APPROXIMATE GRADIENT
- DATA NOT USED FOR CONTOURING



		1401 HARTYARD DR. #140 W. SACRAMENTO, CA. 95601 (916) 372-4700	
REV. NO.:	DATE:	ACAD FILE:	
0	11/30/92	PSM01692	
POTENTIOMETRIC SURFACE MAP (DATUM: MEAN SEA LEVEL) OCTOBER 16, 1992			
CLIENT:	CHEVRON U.S.A. PRODUCTS CO.		PL/NO
	SS #9-1924		225
LOCATION:	4904 SOUTHFRONT RD. LIVERMORE, CALIFORNIA		
DESIGNED	DETAILED	PROJECT NO.:	FIGURE:
JB	ML	02020-2886	1

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-1 520.39	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	11.75	0.00	508.64
	03/15/88	770	87	610	2,100	27,000	--	--	--	--	--	--	--	13.50	0.00	506.89
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.65	0.00	506.74
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.72	0.00	505.67
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.50	0.00	506.89
	10/13/88	220	11	62	130	3,200	--	--	--	--	--	--	--	12.89	0.00	507.50
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.89	0.00	507.50
	01/12/89	820	43	490	260	4,000	--	--	--	--	--	--	--	--	--	--
	04/10/89	100	ND	70	50	4,000	ND	ND	--	--	--	--	--	13.65	0.00	506.74
	04/10/89	100	ND	60	50	4,000	ND	ND	--	--	--	--	--	13.65	0.00	506.74
	06/26/89	97	20	60	50	600	ND	3	--	--	--	--	--	13.94	0.00	506.45
	06/26/89	86	15	44	35	570	--	1.7	--	--	--	--	--	13.94	0.00	506.45
	10/13/89	64	ND	51	48	1,600	ND	ND	5	--	--	--	--	13.92	0.00	506.47
	01/03/90	36	0.68	30	30	1,100	--	1	--	--	--	--	--	13.80	0.00	506.59
	05/08/90	37	9.2	40	32	1,300	--	1.2	--	ND	--	ND	--	13.91	0.00	506.48
	09/29/90	19	1.2	32	31	350	--	ND	ND	0.7	1.4	ND	--	13.93	0.00	506.46
	01/03/91	12	ND	17	14	400	--	ND	ND	ND	ND	ND	ND	13.85	0.00	506.54
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.51	0.00	506.88
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.10	0.00	506.29
04/06/92	12	0.8	31	31	1,000	--	ND	ND	ND	ND	ND	ND	13.06	0.00	507.33	
07/28/92	47	110	96	260	4,200	--	--	--	--	--	--	--	13.93	0.00	506.46	
10/16/92	11	ND	32.0	55.0	1,800	--	--	--	--	--	--	--	14.45	0.00	505.94	
C-2 520.76	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	11.98	0.00	508.78
	03/15/88	3,900	1,900	1,200	1,200	22,000	--	--	--	--	--	--	--	13.77	0.00	506.99
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.03	0.00	506.73
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.12	0.00	505.64
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.86	0.00	506.90
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.11	0.00	506.65
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.83	0.00	507.93
	01/12/89	25	3	83	59	1,000	--	--	--	--	--	--	--	--	--	--
	04/10/89	2.5	ND	15	12	600	ND	ND	--	--	--	--	--	14.04	0.00	506.72
	04/10/89	ND	ND	11	11	ND	ND	ND	--	--	--	--	--	14.04	0.00	506.72
	06/26/89	5.3	8	18	14	640	ND	ND	--	--	--	--	--	14.34	0.00	506.42
	06/26/89	3.7	0.6	13	8.2	750	--	2	--	--	--	--	--	14.34	0.00	506.42
	10/13/89	ND	ND	17	10	630	--	ND	--	--	--	--	--	13.92	0.00	506.84
	01/03/90	3	ND	19	17	880	--	1	--	--	--	--	--	14.11	0.00	506.65
	05/08/90	1.3	2.7	8.4	11	340	--	1.1	--	ND	--	ND	--	14.28	0.00	506.48
	09/29/90	ND	ND	4.6	1.8	74	--	ND	ND	1.7	0.5	ND	--	14.25	0.00	506.51
	01/03/91	270	ND	79	93	2,000	--	ND	ND	ND	ND	ND	ND	14.15	0.00	506.61
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.86	0.00	506.90
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.50	0.00	506.26
04/06/92	ND	ND	54.0	6.1	1,200	--	ND	ND	ND	ND	ND	ND	13.47	0.00	507.29	
07/28/92	5.2	2.9	26	16	1,000	--	--	--	--	--	--	--	14.35	0.00	506.41	
10/16/92	ND	2.2	20.0	10.0	2,000	--	--	--	--	--	--	--	14.84	0.00	505.92	

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-3 521.31	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.24	0.00	509.07
	03/15/88	86	8	30	36.0	2,100	--	--	--	--	--	--	--	14.21	0.00	507.10
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.43	0.00	506.88
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.53	0.00	505.78
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.22	0.00	507.09
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.10	0.00	507.21
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.70	0.00	508.61
	04/10/89	2.1	ND	4.4	2.6	200	ND	1.4	--	--	--	--	--	14.36	0.00	506.95
	06/26/89	1.1	0.7	4.9	1.6	260	ND	1.5	--	--	--	--	--	14.74	0.00	506.57
	10/13/89	ND	ND	ND	ND	ND	--	ND	--	--	--	--	--	14.70	0.00	506.61
	01/03/90	ND	ND	0.9	1.4	ND	--	0.7	--	--	--	--	--	14.42	0.00	506.89
	05/08/90	ND	ND	ND	ND	ND	--	0.7	--	ND	--	ND	--	14.65	0.00	506.66
	09/27/90	ND	1.0	ND	ND	71	--	ND	ND	1.1	1.6	ND	--	14.67	0.00	506.64
	01/03/91	ND	ND	ND	ND	57	--	ND	ND	ND	ND	ND	--	14.58	0.00	506.73
	04/12/91	ND	ND	1.6	ND	98	--	ND	ND	ND	ND	ND	--	14.23	0.00	507.08
	09/04/91	ND	ND	ND	ND	64	--	ND	ND	ND	ND	ND	--	14.88	0.00	506.43
04/06/92	ND	ND	0.8	ND	88	--	ND	ND	ND	ND	ND	--	13.83	0.00	507.48	
07/28/92	ND	ND	0.5	1.1	80	--	--	--	--	--	--	--	14.80	0.00	506.51	
10/16/92	ND	ND	6.6	11.0	1,400	--	--	--	--	--	--	--	15.23	0.00	506.08	
C-5 520.82	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.00	0.00	508.82
	03/15/88	82	7	77	95	1,600	--	--	--	--	--	--	--	13.75	0.00	507.07
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.92	0.00	506.90
	07/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.72	0.00	507.10
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.72	0.00	507.10
	10/13/88	ND	ND	ND	ND	2,500	--	--	--	--	--	--	--	13.84	0.00	506.98
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.41	0.00	507.41
	01/12/89	42	3	44	52	ND	--	--	--	--	--	--	--	13.41	0.00	507.41
	04/10/89	2.6	ND	6.2	5.5	180	ND	1.4	--	--	--	--	--	13.88	--	--
	06/26/89	7.6	0.8	40	56	420	ND	1.5	--	--	--	--	--	14.14	0.00	506.68
	10/13/89	ND	ND	10	ND	620	ND	ND	--	--	--	--	--	14.15	0.00	506.67
	01/03/90	0.7	ND	8	6	ND	--	ND	--	--	--	--	--	14.10	0.00	506.72
	05/08/90	0.6	0.8	11	7.2	140	--	0.8	--	ND	--	ND	--	14.00	0.00	506.82
	09/27/90	ND	3.2	5.2	6.4	360	--	ND	ND	0.7	ND	ND	--	14.00	0.00	506.82
	01/03/91	ND	ND	ND	3	90	--	ND	ND	ND	ND	ND	--	14.00	0.00	506.82
	04/12/91	12	ND	19	7	270	--	0.5	ND	ND	ND	ND	--	13.71	0.00	507.11
09/04/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	--	14.30	0.00	506.52	
04/06/92	12	ND	40	ND	670	--	ND	ND	ND	ND	ND	--	13.29	0.00	507.53	
07/28/92	15	ND	1.8	0.5	130	--	--	--	--	--	--	--	14.13	0.00	506.69	
10/16/92	ND	ND	ND	1.2	ND	--	--	--	--	--	--	--	14.68	0.00	506.14	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-6 519.62	03/26/86	---	---	---	---	---	---	---	---	---	---	---	---	11.12	0.00	508.50
	03/15/88	870	4,600	1,500	8,200	46,000	---	---	---	---	---	---	---	12.93	0.00	508.69
	05/10/88	1,400	10,000	3,000	19,000	86,000	---	---	---	---	---	---	---	13.03	0.00	506.59
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.11	0.00	505.51
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	12.95	0.00	506.67
	10/13/88	300	600	260	1,600	5,300	---	---	---	---	---	---	---	13.14	0.00	508.48
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.14	0.00	507.48
	01/12/89	260	110	270	720	5,000	---	---	---	---	---	---	---	---	---	---
	04/12/89	90	190	190	680	5,000	4.0	ND	---	---	---	---	---	12.98	0.00	506.64
	06/26/89	77	250	140	610	3,600	ND	ND	---	---	---	---	---	13.39	0.00	506.23
	10/13/89	32	81	100	530	3,500	ND	ND	---	---	---	---	---	13.40	0.00	506.22
	01/03/90	20	97	65	410	3,200	---	1	---	---	---	---	---	13.18	0.00	506.44
	05/08/90	17	140	ND	400	1,800	---	1.6	---	ND	---	ND	---	13.39	0.00	506.23
	09/29/90	58	210	260	2,100	8,000	---	1.0	ND	ND	2.4	1.6	---	13.32	0.00	506.30
	01/03/91	4	79	59	380	2,300	---	0.5	ND	ND	ND	ND	ND	13.19	0.00	506.43
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	12.91	0.00	506.71
09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	13.56	0.00	506.06	
04/06/92	ND	120	740	3,400	44,000	---	ND	ND	ND	ND	ND	ND	12.48	0.00	507.14	
07/28/92	220	1,100	3,000	13,000	120,000	---	---	---	---	---	---	---	13.47	0.00	506.15	
10/16/92	ND	830	3,300	9,600	570,000	---	---	---	---	---	---	---	13.95	0.00	505.67	
C-7 520.30	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.67	0.00	508.63
	03/15/88	98	690	120	120	8,000	---	---	---	---	---	---	---	13.48	0.00	506.82
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	13.60	0.00	506.70
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.68	0.00	505.62
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.43	0.00	506.87
	10/13/88	4,400	220	1,000	3,000	16,000	---	---	---	---	---	---	---	13.61	0.00	506.69
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.66	0.00	507.64
	01/12/89	950	47	670	640	8,000	---	---	---	---	---	---	---	---	---	
	04/12/89	1,100	30	760	370	6,000	ND	ND	---	---	---	---	---	13.60	0.00	506.70
	06/26/89	1,300	50	600	340	6,000	ND	ND	---	---	---	---	---	13.88	0.00	506.42
	10/13/89	1,300	ND	160	150	3,900	---	ND	---	---	---	---	---	13.81	0.00	506.49
	01/03/90	1,200	13	180	200	5,600	---	1	---	---	---	---	---	13.71	0.00	506.59
	05/08/90	1,100	15	110	140	3,500	---	1.7	---	ND	---	ND	---	13.85	0.00	506.45
	09/29/90	580	ND	46	68	2,400	---	0.7	ND	ND	ND	ND	ND	13.80	0.00	506.50
	01/03/91	300	2	110	120	2,500	---	0.7	ND	ND	ND	ND	ND	13.71	0.00	506.59
	04/12/91	190	1	81	87	2,300	---	0.6	ND	ND	ND	ND	ND	13.46	0.00	506.84
09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.09	0.00	506.21	
10/07/91	170	1.9	97	59	4,700	---	ND	ND	24	ND	ND	ND	---	---		
04/06/92	95	0.8	110	100	2,400	---	ND	ND	ND	ND	ND	ND	13.02	0.00	507.28	
07/28/92	120	3.4	110	110	2,000	---	---	---	---	---	---	---	13.76	0.00	506.54	
10/16/92	130	4.2	68	74.0	2,700	---	---	---	---	---	---	---	14.42	0.00	505.88	

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-8 519.74	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.78	0.00	507.96
	03/15/88	360	25	10	ND	7,500	---	---	---	---	---	---	---	13.63	0.00	506.11
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	13.74	0.00	506.00
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.89	0.00	504.85
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.65	0.00	506.09
	10/13/88	6	5.3	ND	ND	ND	---	---	---	---	---	---	---	13.78	0.00	505.98
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.68	0.00	507.06
	01/12/89	37	4	1	5	ND	---	---	---	---	---	---	---	---	---	---
	04/12/89	13	ND	ND	ND	3,000	12.0	5	---	---	---	---	---	13.77	0.00	505.97
	06/26/89	14	8	ND	6	780	ND	4	---	---	---	---	---	14.03	0.00	505.71
	10/13/89	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	14.06	0.00	505.68
	01/03/90	ND	ND	1	1	910	---	1.5	---	---	---	---	---	13.74	0.00	506.00
	05/07/90	3.9	6	0.5	3.4	620	---	1.9	---	ND	---	ND	---	14.10	0.00	505.64
	09/29/90	ND	1.4	ND	ND	77	---	ND	ND	0.6	ND	ND	---	13.97	0.00	505.77
	01/03/91	2	2	ND	2.0	67	---	ND	ND	0.7	ND	ND	ND	13.81	0.00	505.93
	04/12/91	4	ND	ND	ND	180	---	0.6	ND	ND	ND	ND	ND	13.60	0.00	506.14
	09/04/91	1.8	4.7	0.8	4.8	140	---	ND	ND	ND	ND	ND	ND	14.14	0.00	505.60
	04/06/92	ND	ND	ND	ND	150	---	ND	ND	ND	ND	ND	ND	13.12	0.00	506.62
07/28/92	ND	ND	ND	0.8	90	---	---	---	---	---	---	---	14.10	0.00	505.64	
10/16/92	ND	ND	ND	ND	51	---	---	---	---	---	---	---	14.57	0.00	505.17	
01/14/93	ND	1.6	1.0	3.5	120	---	---	---	---	---	---	---	10.95	0.00	508.79	
C-9 519.52 519.72	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.24	0.00	508.28
	03/15/88	540	560	580	3,900	29,000	---	---	---	---	---	---	---	12.92	0.00	506.60
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	13.12	0.00	506.40
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.16	0.00	503.36
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.00	0.00	506.52
	10/13/88	57	8	20	150	2,200	---	---	---	---	---	---	---	13.13	0.00	506.39
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.19	0.00	507.33
	01/12/89	39	12	51	46	2,000	---	---	---	---	---	---	---	---	---	---
	04/12/89	16	20	55	240	6,000	ND	2.1	---	---	---	---	---	13.11	0.00	506.41
	04/11/89	14	25	45	290	6,000	---	ND	---	---	---	---	---	13.11	0.00	506.41
	06/26/89	37	63	140	690	3,900	ND	ND	---	---	---	---	---	13.40	0.00	506.12
	10/13/89	7	ND	26	50	1,300	ND	ND	---	---	---	---	---	13.46	0.00	506.06
	01/03/90	ND	0.7	202	37	1,500	---	1.5	---	---	---	---	---	13.30	0.00	506.22
	05/07/90	21	33	89	500	7,100	---	1.9	---	ND	---	ND	---	13.48	0.00	506.04
	09/29/90	21	3.9	31	110	1,000	---	1.0	ND	0.7	1.8	1.0	---	13.39	0.00	506.13
	01/03/91	ND	ND	32	140	3,200	---	0.8	ND	ND	ND	ND	ND	13.28	0.00	506.44
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	13.00	0.00	506.72
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	13.61	0.00	506.11
04/06/92	ND	ND	33	130	2,800	---	ND	ND	ND	ND	ND	ND	12.54	0.00	507.18	
07/28/92	6.5	2.4	17	37	1,000	---	---	---	---	---	---	---	13.45	0.00	506.27	
10/16/92	ND	730	960	2,000	190,000	---	---	---	---	---	---	---	13.98	0.00	505.74	
01/14/93	ND	ND	27	77	2,200	---	---	---	---	---	---	---	10.44	0.00	509.28	

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-10 520.41	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/88	7	ND	ND	ND	90	--	--	--	--	--	--	--	14.86	0.00	505.55
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.90	0.00	505.51
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.94	0.00	504.47
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.85	0.00	505.56
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.90	0.00	505.51
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.83	0.00	505.58
	01/12/89	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	04/11/89	4.8	ND	ND	ND	ND	ND	ND	6.1	--	--	--	--	14.90	0.00	505.51
	06/26/89	0.7	ND	ND	ND	1.5	ND	4.0	ND	--	--	--	--	15.12	0.00	505.29
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	15.11	0.00	505.30
	01/03/90	ND	ND	ND	ND	ND	ND	ND	3	--	--	--	--	15.01	0.00	505.40
	05/07/90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.53	0.00	504.88
	09/27/90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.20	0.00	505.21
	01/03/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.06	0.00	505.35
	04/12/91	16	ND	2.9	2.7	110	--	--	1	ND	ND	ND	ND	14.86	0.00	505.55
	09/04/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.22	0.00	505.19
04/06/92	ND	ND	ND	ND	ND	57	--	1.1	ND	ND	ND	ND	14.21	0.00	506.20	
07/28/92	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	14.78	0.00	505.63	
10/16/92	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	15.51	0.00	504.90	
C-11 520.04	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	13.82	0.00	506.22
	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	14.49	0.00	505.55
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.31	0.00	505.73
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.47	0.00	504.57
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.60	0.00	506.44
	10/14/88	240	33	4.7	67	1.9	--	--	--	--	--	--	--	14.53	0.00	505.51
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.10	0.00	505.94
	01/12/89	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
	04/12/89	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.36	0.00	505.68
	06/26/89	2	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	14.58	0.00	505.46
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.71	0.00	505.33
	01/03/90	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	14.61	0.00	505.43
	05/08/90	12	11	0.9	22	110	--	--	ND	ND	ND	ND	ND	15.53	0.00	504.51
	09/28/90	2.0	1.4	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	15.51	0.00	504.53
	01/03/91	2	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	14.63	0.00	505.41
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	14.30	0.00	505.74
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.84	0.00	505.20
04/06/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.56	0.00	506.48	
07/28/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.39	0.00	505.65	
10/16/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.79	0.00	504.25	

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH - G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-12 519.82	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	13.61	0.00	506.21
	03/15/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.55	0.00	505.27
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.57	0.00	505.25
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.63	0.00	504.19
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.51	0.00	505.31
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.60	0.00	505.22
	01/12/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.62	0.00	505.20
	04/11/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.61	0.00	505.21
	06/26/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.75	0.00	505.07
	10/13/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.77	0.00	505.05
	01/03/90	ND	ND	ND	ND	0.6	ND	---	---	---	---	---	---	14.85	0.00	504.97
	05/07/90	ND	ND	ND	ND	ND	ND	---	---	ND	---	ND	---	14.75	0.00	505.07
	09/27/90	ND	ND	ND	ND	ND	ND	---	---	1.2	---	ND	---	14.61	0.00	505.21
	01/03/91	ND	ND	ND	ND	ND	ND	---	---	ND	---	ND	---	14.70	0.00	505.12
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	14.52	0.00	505.30
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.83	0.00	504.99
04/06/92	ND	ND	ND	ND	ND	ND	---	---	ND	---	ND	---	13.91	0.00	506.01	
07/28/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	14.32	0.00	505.50	
10/16/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	15.12	0.00	504.70	
C-13 522.24	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.95	0.00	509.29
	03/15/88	2	ND	9	3	250	---	---	---	---	---	---	---	14.82	0.00	507.42
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.03	0.00	507.21
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	16.10	0.00	506.14
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.73	0.00	507.51
	10/13/88	1.9	ND	ND	ND	ND	---	---	---	---	---	---	---	14.91	0.00	507.33
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	14.10	0.00	508.14
	01/12/89	ND	0.6	4	ND	ND	---	---	---	---	---	---	---	---	---	---
	04/10/89	ND	ND	8	ND	ND	ND	---	---	---	---	---	---	14.99	0.00	507.25
	06/26/89	0.3	ND	ND	ND	ND	ND	---	---	---	---	---	---	15.16	0.00	507.08
	10/13/89	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	15.23	0.00	507.01
	01/03/90	ND	ND	0.5	0.6	ND	ND	---	---	---	---	---	---	15.15	0.00	507.09
	05/08/90	ND	ND	ND	ND	ND	ND	---	---	ND	---	---	---	15.02	0.00	507.22
	09/27/90	ND	0.6	ND	ND	ND	ND	---	---	1.7	---	ND	---	15.11	0.00	507.13
	01/03/91	ND	ND	ND	0.6	ND	ND	---	---	ND	---	ND	---	15.08	0.00	507.16
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	14.77	0.00	507.47
09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	15.43	0.00	506.81	
04/06/92	ND	ND	ND	ND	ND	66	---	---	ND	---	ND	---	14.43	0.00	507.81	
07/28/92	8.2	ND	ND	1.1	60	ND	---	---	---	---	---	---	15.37	0.00	506.87	
10/16/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	15.87	0.00	506.37	

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOG)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-14 520.08	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/10/88	13,000	29,000	2,700	18	120,000	---	---	---	---	---	---	---	13.39	0.00	506.69
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.65	0.00	505.43
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.47	0.00	506.61
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	13.58	0.00	506.50
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	13.00	0.00	507.08
	01/12/89	ND	ND	ND	ND	NS	---	---	---	---	---	---	---	---	---	---
	04/12/89	ND	ND	ND	ND	NS	ND	ND	---	---	---	---	---	13.47	0.00	506.61
	06/26/89	14,000	25,000	3,400	26,000	140,000	---	30	---	---	---	---	---	13.80	0.00	506.28
	10/13/89	12,000	16,000	1,600	13,000	86,000	---	---	---	---	---	---	---	13.62	0.00	506.46
	01/03/90	9,500	16,000	1,800	13,000	120,000	---	25	3	---	---	---	---	13.91	0.00	506.17
	01/04/90	3,900	8,100	1,200	7,700	76,000	---	18	1	---	---	---	---	13.91	0.00	506.17
	05/08/90	7,500	17,000	1,400	14,000	62,000	---	13	---	ND	---	ND	---	13.89	0.00	506.19
	09/27/90	---	---	---	---	---	---	---	---	---	---	---	---	13.78	0.00	506.30
	01/03/91	---	---	---	---	---	---	---	---	---	---	---	---	13.72	0.00	506.36
	04/12/91	750	3,800	720	9,200	60,000	---	ND	ND	ND	ND	ND	ND	12.97	0.00	507.11
	09/04/91	2,800	11,000	1,300	13,000	110,000	---	---	---	---	---	---	---	13.84	0.00	506.24
04/06/92	190	1,800	440	5,100	41,000	---	---	---	---	---	---	---	12.44	0.00	507.64	
07/28/92	2,300	9,700	1,800	15,000	130,000	---	---	---	---	---	---	---	13.70	0.00	506.38	
10/16/92	---	---	---	---	---	---	---	---	---	---	---	---	14.38	0.00	505.70	
C-15 522.41	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	13.14	0.00	509.27
	03/15/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	15.13	0.00	507.28
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.40	0.00	507.01
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	16.49	0.00	505.92
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	15.17	0.00	507.24
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	15.33	0.00	507.08
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	13.70	0.00	508.71
	01/12/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---
	04/12/89	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	15.34	0.00	507.07
	06/26/89	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	15.72	0.00	506.69
	10/13/89	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	15.96	0.00	506.45
	01/03/90	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	15.42	0.00	506.99
	05/08/90	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	15.62	0.00	506.79
	09/27/90	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	15.59	0.00	506.82
	01/03/91	ND	ND	ND	0.6	ND	---	ND	ND	2.9	ND	ND	ND	15.50	0.00	506.91
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	15.21	0.00	507.20
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	15.90	0.00	506.51
	04/06/92	ND	ND	ND	ND	ND	ND	---	ND	---	---	---	---	14.88	0.00	507.53
07/28/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	15.82	0.00	506.59	
10/16/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	16.25	0.00	506.16	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-16 519.68	03/29/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	1,000	73	140	180	4,500	--	--	--	--	--	--	--	13.78	0.00	505.90
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.88	0.00	504.80
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.69	0.00	505.99
	10/13/88	18	5.5	ND	16	1,800	--	--	--	--	--	--	--	13.80	0.00	505.88
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.45	0.00	506.23
	01/12/89	360	11	78	51	1,000	--	--	--	--	--	--	--	--	--	--
	04/11/89	130	4	21	19	15,800	ND	8	--	--	--	--	--	13.78	0.00	505.90
	06/26/89	170	8	37	43	1,300	ND	ND	--	--	--	--	--	14.02	0.00	505.66
	10/13/89	20	ND	7	ND	1,000	ND	ND	--	--	--	--	--	14.01	0.00	505.67
	01/03/90	150	3	41	24	1,300	--	5	--	--	--	--	--	13.97	0.00	505.71
	05/07/90	49	4.4	29	13	480	--	4.5	--	ND	ND	ND	--	14.45	0.00	505.23
	09/29/90	18	2.1	11	8.0	360	--	1.8	ND	ND	ND	ND	--	14.32	0.00	505.36
	01/03/91	12	ND	6	6	230	--	2	ND	0.8	ND	ND	ND	13.96	0.00	505.72
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	13.74	0.00	505.94
	09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	14.22	0.00	505.46
04/06/92	30	ND	14	12.0	360	--	1.0	ND	ND	ND	ND	ND	13.18	0.00	506.50	
07/28/92	31	ND	6.8	16	210	--	--	--	--	--	--	--	13.93	0.00	505.75	
10/16/92	11	ND	5.1	3.4	140	--	--	--	--	--	--	--	14.92	0.00	504.76	
C-17 520.82	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	13.48	0.00	507.34
	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	14.76	0.00	506.06
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.77	0.00	506.05
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.84	0.00	504.98
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.63	0.00	506.19
	10/13/88	18	900	760	5,500	270,000	--	--	--	--	--	--	--	14.83	0.00	505.99
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	14.78	0.00	506.04
	01/12/89	ND	490	2,100	6,700	190,000	--	--	--	--	--	--	--	--	--	--
	04/11/89	30	150	320	1,000	27,000	6.0	ND	--	--	--	--	--	14.83	0.00	505.99
	06/26/89	50	390	660	2,000	20,000	ND	ND	--	--	--	--	--	15.03	0.00	505.79
	06/26/89	40	420	740	2,200	27,000	ND	ND	--	--	--	--	--	15.03	0.00	505.79
	10/13/89	ND	48	230	480	17,000	ND	ND	--	--	--	--	--	15.02	0.00	505.80
	01/03/90	ND	29	120	210	14,000	--	ND	--	--	--	--	--	15.10	0.00	505.72
	05/08/90	25	130	210	470	9,500	--	ND	--	ND	ND	ND	--	15.12	0.00	505.70
	09/29/90	ND	ND	ND	ND	ND	--	ND	ND	ND	1.9	ND	--	14.99	0.00	505.83
	09/29/90	ND	3.4	ND	ND	ND	--	ND	ND	1.8	1.9	ND	--	14.99	0.00	505.83
	01/03/91	ND	28	56	140	3,700	--	ND	ND	1.8	1.9	ND	ND	14.92	0.00	505.90
	01/03/91	ND	10	59	150	8,600	--	ND	ND	ND	ND	ND	ND	14.92	0.00	505.90
	04/12/91	ND	5	47	120	8,600	--	ND	ND	ND	ND	ND	ND	14.71	0.00	506.11
04/12/91	ND	11	48	120	4,400	--	ND	ND	ND	ND	ND	ND	14.71	0.00	506.11	
09/04/91	ND	27	49	79	5,800	--	ND	ND	ND	ND	ND	ND	15.17	0.00	505.65	
09/04/91	ND	21	36	61	4,100	--	ND	ND	ND	ND	ND	ND	15.17	0.00	505.65	
04/06/92	ND	5.8	27	29	2,300	--	ND	ND	ND	ND	ND	ND	14.14	0.00	506.68	
07/28/92	99	180	170	430	11,000	--	--	--	--	--	--	--	15.18	0.00	505.64	
10/16/92	ND	4,800	3,900	6,600	1,200,000	--	--	--	--	--	--	--	15.76	0.00	505.06	

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)		
C-18 518.96	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.89	0.00	504.07		
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	13.79	0.00	505.17		
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	13.86	0.00	505.10		
	01/12/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	13.94	0.00	505.02		
	04/11/89	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.00	518.96		
	06/26/89	ND	ND	ND	ND	ND	ND	ND	3.6	---	---	---	---	14.86	0.00	504.10		
	10/13/89	ND	ND	ND	ND	ND	ND	ND	3.1	---	---	---	---	14.02	0.00	504.94		
	01/03/90	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.06	0.00	503.90		
	05/07/90	ND	ND	ND	ND	ND	ND	---	1	---	---	---	---	14.07	0.00	504.89		
	09/27/90	ND	ND	ND	ND	ND	ND	---	ND	ND	0.6	ND	ND	14.01	0.00	504.95		
	01/03/91	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	13.91	0.00	505.05		
	04/12/91	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	13.98	0.00	504.98		
09/04/91	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	13.83	0.00	505.13			
04/06/92	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	14.20	0.00	504.76			
07/28/92	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	13.07	0.00	505.89			
10/16/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	13.55	0.00	505.41			
																14.38	0.00	504.58

**Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

CHEVRON SERVICE STATION #9-1924
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-19 520.99	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	1,400	360	350	1,300	18	--	--	--	--	--	--	--	15.23	0.00	505.76
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	16.58	0.00	504.41
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	15.19	0.00	505.80
	10/13/88	8.3	4.7	4.4	ND	ND	--	--	--	--	--	--	--	15.27	0.00	505.72
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	15.20	0.00	505.79
	01/12/89	5	4	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	04/11/89	1.8	ND	ND	ND	ND	ND	13	--	--	--	--	--	15.24	0.00	505.75
	04/11/89	1.2	ND	0.6	0.6	500	14	--	--	--	--	--	--	15.24	0.00	505.75
	06/26/89	2.5	ND	ND	ND	500	ND	26	--	--	--	--	--	15.44	0.00	505.55
	10/13/89	ND	ND	ND	ND	540	ND	13	13	--	--	--	--	15.47	0.00	505.52
	01/03/90	1.2	0.7	1.3	0.9	ND	--	11	--	--	--	--	--	15.45	0.00	505.54
	05/07/90	ND	ND	ND	ND	ND	--	4.6	--	ND	--	ND	--	15.68	0.00	505.31
	09/28/90	ND	ND	ND	ND	ND	--	ND	ND	1.2	ND	ND	--	15.52	0.00	505.47
	01/03/91	ND	ND	ND	ND	ND	66	--	1	ND	ND	ND	0.9	15.56	0.00	505.43
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	15.20	0.00	505.79
09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	15.60	0.00	505.39	
04/06/92	0.7	ND	1.0	ND	110	--	1.9	ND	ND	ND	ND	ND	14.58	0.00	506.41	
07/28/92	1.4	ND	1.0	4.2	ND	--	--	--	--	--	--	--	15.26	0.00	505.73	
10/16/92	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	16.00	0.00	504.99	

Explanation

TPH-G = Total Petroleum Hydrocarbons as Gasoline (ppb)
 TOG = Total Oil & Grease (EPA Method 503D & 503E)
 1,2-DCA = 1,2-Dichloroethane
 MC = Methylene Chloride
 TCA = 1,1,1-Trichloroethane
 1,1-DCA = 1,1-Dichloroethane
 PCE = Tetrachloroethene
 OTHER = 5 ppb Carbon Disulfide detected in C-1 on 10-13-89
 3 ppb Vinyl Chloride detected in C-14 on 1-3-90
 1 ppb Vinyl Chloride detected in C-14 on 1-4-90
 13 ppb Carbon Disulfide detected in C-19 on 10-13-89

SPT = Separate-phase hydrocarbon thickness
 DTW = Depth to water
 WTE = Water table elevation (adjusted WTE = well elevation - (DTW - (SPT x 0.8))
 TOC = Top of casing
 ND = Not detected at or above the minimum quantitation limit (MQL)
 -- = Not sampled, not monitored, inaccessible
 Top of casing and ground water elevations are expressed as feet above mean sea level (NGVD-1929).

ANALYTICAL LABORATORY REPORTS



Superior Precision Analytical, Inc.

825 Arnold Drive Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Groundwater Technology Inc.
Attn: James W. Grasty

Project 02020-2886
Reported 11/05/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86954- 1	TB-LB	10/16/92	10/21/92 Water
86954- 2	RINSATE	10/16/92	10/21/92 Water
86954- 3	C-11	10/16/92	10/21/92 Water
86954- 4	C-12	10/16/92	10/21/92 Water
86954- 5	C-15	10/16/92	10/23/92 Water
86954- 6	C-18	10/16/92	10/23/92 Water
86954- 7	C-10	10/16/92	10/21/92 Water
86954- 8	C-13	10/16/92	10/21/92 Water
86954- 9	C-3	10/16/92	10/23/92 Water
86954-10	C-19	10/16/92	10/21/92 Water

RESULTS OF ANALYSIS

Laboratory Number: 86954- 1 86954- 2 86954- 3 86954- 4 86954- 5

Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 86954- 6 86954- 7 86954- 8 86954- 9 86954-10

Gasoline:	ND<50	ND<50	ND<50	1400	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<2.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	6.6	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L



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Groundwater Technology Inc.
Attn: James W. Grasty

Project 02020-2886
Reported 11/05/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86954-11	C-8	10/16/92	10/22/92 Water
86954-12	C-16	10/16/92	10/22/92 Water
86954-13	C-5	10/16/92	10/22/92 Water
86954-14	C-1	10/16/92	10/23/92 Water
86954-15	C-2RINSATE	10/16/92	10/23/92 Water
86954-16	C-2	10/16/92	10/27/92 Water
86954-17	C-17	10/16/92	10/22/92 Water
86954-18	C-7	10/16/92	10/27/92 Water
86954-19	C-9	10/16/92	10/22/92 Water
86954-20	C-6	10/16/92	10/22/92 Water

RESULTS OF ANALYSIS

Laboratory Number: 86954-11 86954-12 86954-13 86954-14 86954-15

Gasoline:	51	140	ND<50	1800	ND<50
Benzene:	ND<0.5	11	ND<0.5	11	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<5	ND<0.5
Ethyl Benzene:	ND<0.5	5.1	ND<0.5	32	ND<0.5
Xylenes:	ND<0.5	3.4	1.2	55	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 86954-16 86954-17 86954-18 86954-19 86954-20

Gasoline:	2000	1200000	2700	190000	570000
Benzene:	ND<0.5	ND<250	130	ND<250	ND<250
Toluene:	2.2	4800	4.2	730	830
Ethyl Benzene:	20	3900	68	960	3300
Xylenes:	10	6600	74	2000	9600
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3
QA/QC INFORMATION
SET: 86954

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	83/83	0%	70-130
Benzene:	200 ng	92/90	2%	70-130
Toluene:	200 ng	97/94	3%	70-130
Ethyl Benzene:	200 ng	103/100	3%	70-130
Xylenes:	200 ng	97/97	0%	70-130

Richard Srna, Ph.D.

Leominica V. Faneuil (for)
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: Yes No

86954

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-1924
Facility Address 4904 Southfront Rd Livermore
Consultant Project Number 02020-2886
Consultant Name Groundwater Technology
Address 1401 Hablard #140 w. Sacramento Ca
Project Contact (Name) Jim Grasty
(Phone) 916-372-4700 (Fax Number) 916-372-8781

Chevron Contact (Name) Clint Rogers
(Phone) 510-842-8658
Laboratory Name Superior Analytical
Laboratory Release Number 461220
Samples Collected by (Name) John McIntosh
Collection Date 10-16-92
Signature John McIntosh

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											Remarks	
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)					
15	15	2	W	G	1620	HCL	Y	<input checked="" type="checkbox"/>												*
C-2	15	2	W	G	1620	HCL	Y													
C-2	16	3			1630															
C-17	17	3			1640															
C-7	18	3			1650															
C-9	19	3			1700															
15	15	2	W	G	1620	HCL	Y	<input checked="" type="checkbox"/>												
C-6	20	3			1720															No Sample

Please Initial:
Samples Stored in _____
Appropriate containers _____
Samples preserved _____
VOA's without headspace _____
Comments: _____

SS

Relinquished By (Signature) <u>John McIntosh</u>	Organization <u>02320</u>	Date/Time <u>10/19/92 0800</u>	Received By (Signature) <u>Michael Voigt</u>	Organization <u>EX-IT</u>	Date/Time <u>10-19 0935</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <u>Michael Voigt</u>	Organization <u>EX-IT</u>	Date/Time <u>10-19 1308</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Michael Voigt</u>		Date/Time <u>10/19/92</u>	

