

GROUNDWATER MONITORING REPORT MARCH 2010

PEPPLER 3-36

Per the approved COGCC workplan, reporting for this site has historically been conducted semi-annually (reporting two quarterly events), with this summary provided on the off-quarters of the semi-annual report. The next formal groundwater monitoring report will be prepared upon receipt of the June 2010 data. This correspondence is provided as an interim deliverable regarding the quarterly data collected during the 1st quarter 2010 monitoring event.

The monitoring event was conducted on March 16, 2010. As requested, please find attached the current groundwater and surface water quality data for the Peppler 3-36 site (COGCC Remediation #1752, SWNW Section 36-T5N-R66W, Weld County, Colorado).

The quarterly monitoring schedule includes the following:

- Monitoring wells – MW-12, MW-19, MW-20, MW-26, MW-32
- Surface water – P-WS-01, P-WS-02, P-WS-04

The monitoring program was reduced to these 8 sample points following the September 2009 sampling event. As seen on the attached Tables, the March 2010 data indicates a minor detection of benzene in one groundwater well, MW19. All other groundwater and surface water results have maintained compliance with standards.

The next formal semi-annual report will be drafted following the receipt of June 2010 data. If you have any questions or comments, please feel free to call me at 303-962-5506.



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS

PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW01	06/16/2003	ND	ND	ND	ND	NM	4.02
	10/29/2003	ND	ND	ND	ND	2.3	5.60
MW02	06/16/2003	ND	ND	ND	ND	NM	3.83
	10/29/2003	ND	ND	ND	ND	2.03	5.41
	07/28/2004	<1.0	<1.0	<1.0	<3.0	4.47	6.42
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.09	9.45
	07/14/2006	<1.0	<1.0	<1.0	<1.0	0.49	5.83
MW03	06/16/2003	19.8	219	18.0	311	NM	4.35
	10/29/2003	84	730	44.6	800	1.46	6.04
	02/27/2007	<1.0	<1.0	<1.0	<1.0	2.17	7.11
MW04	06/16/2003	2.7	2.7	3.1	55.6	NM	3.82
	10/29/2003	ND	ND	ND	ND	2.2	5.17
MW05	06/16/2003	26.1	111	19.4	295	NM	3.65
	10/29/2003	ND	ND	ND	3.2	1.71	5.22
	03/30/2004	300	1.2	<1.0	<3.0	1.04	8.46
	05/26/2004	820	2.7	1.7	3.0	0.65	8.24
	07/28/2004	1090	8.7	32.9	228.0	0.25	6.96
	09/27/2004	652	2.5	2.5	21.5	0.69	7.38
	05/16/2005	78	<1.0	<1.0	13	1.23	6.70
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.48	7.92
	11/23/2005	<1.0	<1.0	4.3	12	0.99	7.53
	04/20/2006	6.4	<1.0	<1.0	5.8	2.62	8.65
	07/14/2006	1.7	<1.0	<1.0	3.6	0.52	6.27
	10/04/2006	<1.0	<1.0	<1.0	<1.0	2.20	7.93
	09/25/2008	<1.0	<1.0	<1.0	<1.0	2.30	7.41
MW06	06/16/2003	14.2	124	22.2	346	NM	3.60
	10/29/2003	ND	ND	ND	3.1	3.65	5.09
MW07	06/16/2003	6680	6280	173	2000	NM	3.24
	10/29/2003	130	280	23.3	390	1.43	5.00
	09/27/2004	1250	114	261.0	6460	0.38	5.98
	05/16/2005	Dry - Not Sampled					
	09/06/2005	<1.0	<1.0	14	440	1.32	NA
	11/23/2005	4.0	<1.0	11	260	0.98	NA
	04/20/2006	<1.0	<1.0	7.0	210	2.30	NA
	07/14/2006	4.9	<1.0	4.8	110	0.52	4.92
	02/27/2007	9.6	<1.0	5.3	90	2.06	5.23
	09/25/2008	<1.0	<1.0	<1.0	<1.0	2.49	6.32
MW08	06/16/2003	ND	ND	1.1	ND	NM	3.30
	10/29/2003	ND	ND	ND	ND	1.61	4.68



TABLE 1 (Continued)
GROUNDWATER ANALYTICAL AND FIELD RESULTS
PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW09	06/16/2003	375	374	27.4	380	NM	3.56
	10/29/2003	100	230	11.4	300	2.44	5.09
	10/04/2006	<1.0	<1.0	<1.0	28	NA	NA
MW10	06/16/2003	62.2	485	51.3	813	NM	2.22
	10/29/2003	640	1640	86	1740	0.98	4.00
	05/26/2004	256.0	566.0	64.5	1000	0.16	5.80
	09/27/2004	22.7	258	43.0	1020	1.15	5.01
	05/16/2005	<1.0	<1.0	<1.0	11	1.16	4.26
	09/06/2005	<1.0	<1.0	1.8	33	1.02	5.60
	11/23/2005	3.9	3.4	32	210	1.57	5.15
	04/20/2006	12	1.4	16	62	2.42	6.24
	07/14/2006	<1.0	2.8	1.5	36	0.57	4.13
	10/04/2006	<1.0	4.4	26	340	2.40	5.54
MW11	06/16/2003	37.4	165	62.6	673	NM	2.09
	10/29/2003	35.6	5.3	4.4	41.8	1.66	3.74
MW12	06/16/2003	15.1	ND	3.2	49.8	NM	2.05
	10/29/2003	16.2	27.8	10.3	150	0.99	3.72
	01/22/2004	<5.0	5.7	22.9	126	1.53	4.49
	03/30/2004	12.3	8.8	31.6	190	2.14	5.88
	05/26/2004	5.6	3.9	5.8	49.1	0.58	5.64
	07/28/2004	11.6	4.9	13.5	59.1	0.77	4.90
	09/27/2004	<1.0	1.7	3.8	10.6	0.83	4.79
	01/26/2005	<1.0	<1.0	<1.0	3.1	0.9	3.77
	05/16/2005	1.7	<1.0	<1.0	2.3	0.89	4.10
	07/25/2005	<1.0	<1.0	2.3	25	0.57	5.70
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.00	5.65
	11/23/2005	<1.0	<1.0	<1.0	4.6	1.27	4.98
	01/17/2006	<1.0	<1.0	<1.0	<2.0	1.19	5.20
	04/20/2006	<1.0	<1.0	<1.0	2.3	2.54	6.12
	07/14/2006	<1.0	<1.0	<1.0	2.9	0.59	4.19
	10/04/2006	<1.0	<1.0	<1.0	5.9	2.36	5.44
	02/27/2007	<1.0	<1.0	<1.0	<1.0	1.98	3.98
	06/18/2007	<1.0	<1.0	<1.0	<1.0	1.01	3.52
	10/01/2007	<1.0	<1.0	<1.0	<1.0	1.03	4.97
	12/12/2007	<1.0	<1.0	<1.0	<1.0	0.95	4.95
	03/07/2008	<1.0	<1.0	<1.0	<1.0	0.49	4.90
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.49	5.03
	09/25/2008	<1.0	<1.0	<1.0	<1.0	2.72	4.08
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.37	4.72
	03/12/2009	<1.0	<1.0	<1.0	<1.0	1.47	5.16
	06/29/2009	<1.0	<1.0	<1.0	<1.0	NA	2.42
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	5.48



TABLE 1 (Continued)
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PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW12	12/29/2009	<1.00	<1.00	<1.00	<1.00	2.36	4.84
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA	4.61
MW13	06/16/2003	68.3	224	29.4	583	NM	2.44
	10/29/2003	4.8	81.9	7.2	260	2.57	4.05
	01/22/2004	<1.0	14.7	19.9	384	2.08	4.45
	03/30/2004	<1.0	15.0	42.9	860	2.49	6.27
	05/26/2004	<1.0	6.6	16.9	620	1.52	6.05
	07/28/2004	3.4	6.3	46.5	1350	0.81	5.37
	09/27/2004	<1.0	5.3	2.9	135	1.7	5.17
	01/26/2005	<1.0	<1.0	<1.0	<3.0	0.88	3.97
	05/16/2005	<1.0	<1.0	<1.0	<2.0	4.01	4.45
	07/25/2005	<1.0	<1.0	<1.0	33	1.93	6.20
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.15	6.17
	11/23/2005	<1.0	<1.0	<1.0	2.3	1.79	5.38
	01/17/2006	<1.0	<1.0	<1.0	<2.0	1.09	5.55
	04/20/2006	<1.0	<1.0	<1.0	5.0	2.65	6.58
	07/14/2006	<1.0	<1.0	3.1	2.2	0.54	4.70
	10/04/2006	<1.0	<1.0	<1.0	<1.0	2.40	5.90
MW14	06/16/2003	ND	ND	ND	ND	NM	3.39
	10/29/2003	ND	ND	ND	ND	2.47	4.91
	07/28/2004	<1.0	<1.0	<1.0	<3.0	6.05	6.93
	07/25/2005	<1.0	<1.0	<1.0	<2.0	2.27	7.75
	07/14/2006	<1.0	<1.0	2.8	2.1	0.59	6.26
MW15	06/16/2003	ND	ND	ND	ND	NM	3.38
	10/29/2003	ND	ND	ND	ND	2.49	4.85
MW16	06/16/2003	ND	ND	ND	ND	NM	3.50
	10/29/2003	ND	ND	ND	ND	1.91	5.05
MW17	06/16/2003	ND	ND	ND	ND	NM	3.41
	10/29/2003	ND	ND	ND	ND	1.95	4.93
	07/28/2004	<1.0	<1.0	<1.0	<3.0	4.28	7.18
	07/25/2005	<1.0	<1.0	<1.0	<2.0	2.57	8.05
	07/14/2006	<1.0	<1.0	2.5	1.9	0.55	6.51
MW18	06/16/2003	ND	ND	ND	ND	NM	3.64
	10/29/2003	ND	ND	ND	ND	1.74	5.14
	07/28/2004	<1.0	<1.0	<1.0	<3.0	1.59	7.14
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.00	8.10
	07/14/2006	<1.0	<1.0	2.4	1.8	0.50	6.55
MW19	08/04/2003	16000	338	393	5500	NM	1.40
	10/29/2003	10700	1310	380	4570	1.05	1.45
	03/30/2004	5130	1100	310	3480	0.42	3.17



TABLE 1 (Continued)
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Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW19	05/26/2004	7940	510	230	2110	0.16	2.96
	09/27/2004	10300	367	324	4320	0.37	1.18
	03/31/2005	1900	430	170	2540	2.02	2.53
	05/16/2005	610	53	120	1500	1.02	1.40
	09/06/2005	2100	24	160	2500	0.98	2.72
	09/30/2005	710	5.5	130	1200	NA	NA
	11/23/2005	180	170	100	1500	1.14	2.25
	04/20/2006	250	1.6	140	1900	2.47	3.43
	07/14/2006	190	2.0	82	1700	0.29	1.19
	10/04/2006	200	8.0	99	3300	2.37	2.72
	02/27/2007	21	2.6	110	17	2.30	1.24
	06/18/2007	6.6	24	40	470	1.98	.90
	10/01/2007	87	88	58	2800	0.98	2.26
	12/12/2007	31	92	63	1400	0.56	1.22
	03/07/2008	10	3.1	77	580	0.45	2.20
	06/20/2008	440	60	510	4700	1.45	2.43
	09/25/2008	51	170	27	460	1.22	2.30
	12/10/2008	2.7	10	18	460	1.79	2.03
	03/12/2009	9.5	6.3	140	1500	1.12	2.60
	06/29/2009	Not Sampled					
	09/03/2009	16	930	89	950	NA	2.54
MW19 destroyed as of 12/16/2009							
MW19R	12/29/2009	4.95	<1.00	7.67	38.5	0.71	3.28
	03/16/2010	6.4	<1.0	46	90	NA	NA
MW20	08/04/2003	1800	119	102	1580	NM	1.93
	10/29/2003	4080	15.3	120	1360	1.65	2.02
	03/30/2004	1170	<10	<10	30	0.43	5.41
	05/26/2004	1410	4.2	5.6	8.2	0.13	5.22
	07/28/2004	1220	2.7	5.1	4.8	0.24	4.16
	09/27/2004	1650	<5.0	<5.0	26.6	0.42	4.42
	05/16/2005	6.0	<1.0	1.2	10	2.15	3.70
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.14	5.00
	11/23/2005	<1.0	<1.0	<1.0	<2.0	1.32	2.65
	04/20/2006	250	<1.0	2.5	14	2.50	5.65
	07/14/2006	7.4	<1.0	21	16	0.42	3.36
	10/04/2006	<1.0	<1.0	1.5	67	1.84	4.92
	02/27/2007	<1.0	<1.0	<1.0	<1.0	1.97	3.54
	06/18/2007	18	<1.0	<1.0	<1.0	1.89	3.17
	10/01/2007	<1.0	<1.0	<1.0	<1.0	0.87	4.51
	12/12/2007	<1.0	<1.0	<1.0	<1.0	0.90	4.48
	03/07/2008	8.7	<1.0	<1.0	<1.0	0.36	4.45
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.36	4.70



TABLE 1 (Continued)
GROUNDWATER ANALYTICAL AND FIELD RESULTS

PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW20	09/25/2008	<1.0	<1.0	<1.0	<1.0	1.82	4.48
	12/10/2008	<1.0	<1.0	<1.0	<1.0	0.99	4.27
	03/12/2009	1.3	<1.0	<1.0	<1.0	1.21	4.82
	06/29/2009	Not Sampled					
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	5.12
	12/29/2009	<1.00	<1.00	<1.00	<1.00	3.87	NA
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA	4.30
MW21	08/04/2003	1010	25.2	15.4	228	NM	1.42
	10/29/2003	1360	43	22.4	330	1.37	1.39
	03/30/2004	1130	<10	<10	58.8	0.45	4.39
	07/28/2004	1090	7.8	52.6	160.0	0.27	3.18
	09/27/2004	65.7	3.1	2.3	14.8	0.01	3.35
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.28	4.00
	06/18/2007	18	<1.0	<1.0	<1.0	1.02	3.12
	10/01/2007	Dry - Not Sampled					
	12/12/2007	<1.0	<1.0	<1.0	<1.0	0.54	3.48
	03/07/2008	<1.0	<1.0	<1.0	<1.0	0.35	3.42
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.35	4.45
	09/25/2008	<1.0	<1.0	<1.0	<1.0	1.94	3.43
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.18	3.74
	03/12/2009	<1.0	<1.0	<1.0	<1.0	1.39	3.78
	06/29/2009	Not Sampled					
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	4.29
MW22	08/04/2003	16.5	3.5	ND	6.1	NM	1.20
	10/29/2003	160	1.8	1.9	6.7	2.18	1.00
	03/30/2004	1220	2.0	2.3	4.1	0.46	4.64
	05/26/2004	500	4.9	8.8	14.3	0.22	4.42
	07/28/2004	95.4	2.5	<1.0	<3.0	0.29	3.55
	09/27/2004	53.4	4.5	4.3	20.5	0.42	3.63
	05/16/2005	5.1	<1.0	<1.0	46	2.09	3.25
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.21	4.30
	11/23/2005	<1.0	<1.0	<1.0	<2.0	1.72	3.69
	04/20/2006	16	<1.0	<1.0	<1.0	2.54	4.81
	07/14/2006	<1.0	<1.0	6.6	4.7	0.48	2.64
	10/04/2006	<1.0	<1.0	<1.0	<1.0	2.10	4.12
	02/27/2007	<1.0	<1.0	<1.0	<1.0	2.32	2.73
MW23	08/04/2003	3030	9.7	22.1	270	NM	1.68
	10/29/2003	4620	3.9	67.5	1190	2.49	1.54
	03/30/2004	2520	<20	21.0	66.4	0.6	5.10
	09/27/2004	706	3.4	5.6	92.7	0.36	4.09
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.30	4.85
	07/14/2006	<1.0	<1.0	4.2	2.9	0.46	3.25



TABLE 1 (Continued)
GROUNDWATER ANALYTICAL AND FIELD RESULTS

PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW23	02/27/2007	<1.0	<1.0	<1.0	<1.0	2.16	3.28
	06/18/2007	<1.0	<1.0	<1.0	<1.0	1.13	2.91
	10/01/2007	<1.0	<1.0	<1.0	<1.0	1.13	2.79
	12/12/2007	<1.0	<1.0	<1.0	120	0.98	4.22
	03/07/2008	<1.0	<1.0	<1.0	<1.0	0.45	4.25
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.45	5.25
	09/25/2008	<1.0	<1.0	<1.0	<1.0	1.66	4.23
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.03	4.00
	03/12/2009	<1.0	<1.0	<1.0	<1.0	1.42	4.55
	06/29/2009	Not Sampled					
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	NA
MW24	08/04/2003	400	ND	ND	ND	NM	1.65
	10/29/2003	40.3	ND	ND	7.2	1.91	1.55
	03/30/2004	710.0	2.3	14.9	83.7	0.48	4.60
	05/26/2004	<1.0	<1.0	<1.0	<3.0	0.14	4.35
	09/27/2004	<1.0	<1.0	<1.0	<3.0	0.45	3.57
	05/16/2005	1.6	<1.0	<1.0	<2.0	2.10	3.50
	09/06/2005	3.4	<1.0	<1.0	<2.0	1.21	4.32
	11/23/2005	<1.0	<1.0	<1.0	<2.0	1.82	3.60
	04/20/2006	36	<1.0	9.2	19	2.48	4.74
	07/14/2006	<1.0	<1.0	1.3	<1.0	0.40	2.73
	10/04/2006	<1.0	<1.0	<1.0	<1.0	2.53	4.05
	02/27/2007	<1.0	<1.0	<1.0	<1.0	2.08	2.71
	06/18/2007	<1.0	<1.0	<1.0	<1.0	1.26	2.35
	10/01/2007	<1.0	<1.0	<1.0	<1.0	0.82	3.60
	12/12/2007	<1.0	<1.0	<1.0	<1.0	0.90	NA
	03/07/2008	<1.0	<1.0	<1.0	<1.0	0.38	3.53
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.38	4.53
	09/25/2008	<1.0	<1.0	<1.0	<1.0	2.07	3.58
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.29	3.36
	03/12/2009	<1.0	<1.0	5.1	23	1.47	3.85
	06/29/2009	Not Sampled					
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	4.58
MW25	08/04/2003	2100	1.9	1.9	ND	NM	1.67
	10/29/2003	34.8	1.0	ND	ND	2.24	1.52
	02/27/2007	<1.0	<1.0	1.3	<1.0	2.42	2.69
MW26	08/04/2003	2350	3.0	1.6	8.5	NM	1.42
	10/29/2003	2090	1.9	1.0	ND	1.77	1.05
	01/22/2004	4110	23.7	35.4	594	0.28	3.25
	03/30/2004	740	4.0	3.8	38.3	0.62	4.41
	05/26/2004	190	1.6	<1.0	<3.0	0.15	4.20
	07/28/2004	134	5.5	<1.0	3.2	0.29	3.83



TABLE 1 (Continued)
GROUNDWATER ANALYTICAL AND FIELD RESULTS
PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW26	09/27/2004	180	2.9	<1.0	<3.0	0.5	3.40
	11/30/2004	1950	<25	<25	260	NA	NA
	01/26/2005	1300	<1.0	5.2	61	1.32	1.56
	03/31/2005	19	ND	ND	2.9	1.48	3.63
	05/16/2005	8.8	<1.0	<1.0	<2.0	3.12	3.00
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.89	4.55
	09/06/2005	1.6	<1.0	<1.0	<2.0	1.19	4.45
	11/23/2005	<1.0	<1.0	<1.0	<2.0	1.10	5.45
	01/17/2006	24	<1.0	<1.0	<2.0	1.20	3.60
	04/20/2006	73	<1.0	<1.0	<1.0	2.49	4.60
	07/14/2006	<1.0	<1.0	3.1	2.2	0.58	2.79
	10/04/2006	<1.0	<1.0	<1.0	<1.0	1.70	3.19
	02/27/2007	<1.0	<1.0	<1.0	<1.0	2.50	2.47
	06/18/2007	<1.0	<1.0	<1.0	<1.0	1.48	2.11
	10/01/2007	<1.0	<1.0	<1.0	<1.0	0.8	3.41
	12/12/2007	<1.0	<1.0	<1.0	<1.0	0.93	3.39
	03/07/2008	<1.0	<1.0	<1.0	<1.0	0.39	3.40
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.39	4.40
	09/25/2008	<1.0	<1.0	<1.0	<1.0	1.78	3.48
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.09	3.40
	03/12/2009	<1.0	<1.0	<1.0	<1.0	1.48	3.75
	06/29/2009	Not Sampled					
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	4.61
	12/29/2009	<1.00	<1.00	<1.00	<1.00	2.62	3.45
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA	3.18
MW27	08/04/2003	2.1	ND	ND	ND	NM	.98
	10/29/2003	8.1	ND	ND	ND	2.94	.90
	01/22/2004	<1.0	<1.0	<1.0	<3.0	NM	.85
	03/30/2004	8.9	<1.0	<1.0	<3.0	0.67	1.71
	05/26/2004	2.8	<1.0	<1.0	<3.0	7.89	1.46
	07/28/2004	<1.0	<1.0	<1.0	<3.0	NM	1.24
	01/26/2005						
	05/16/2005	Inaccessible - Not Sampled					
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.48	NA
MW28	08/04/2003	ND	ND	ND	ND	NM	1.76
	10/29/2003	1.0	ND	ND	ND	2.37	1.54
	11/30/2004	<1.0	<1.0	<1.0	<1.0	NA	NA
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.73	NA
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.30	NA
	11/23/2005	<1.0	<1.0	<1.0	<2.0	NA	NA
	01/17/2006	3.5	<1.0	<1.0	<2.0	NA	NA
	07/14/2006	<1.0	<1.0	2.6	1.8	0.42	4.73
	10/04/2006	<1.0	<1.0	<1.0	<1.0	0.57	NA



TABLE 1 (Continued)
GROUNDWATER ANALYTICAL AND FIELD RESULTS

PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW28	02/27/2007	<1.0	<1.0	<1.0	<1.0	NA	NA
	06/18/2007	<1.0	<1.0	<1.0	<1.0	NA	NA
	10/01/2007	Damaged - Not Sampled					
	12/12/2007	Damaged - Not Sampled					
	03/25/2008	<1.0	<1.0	<1.0	<1.0	NA	5.03
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.83	5.78
	09/25/2008	<1.0	<1.0	<1.0	<1.0	1.99	5.18
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.35	4.86
	03/12/2009	<1.0	<1.0	<1.0	<1.0	1.49	5.34
MW29	08/04/2003	ND	ND	ND	ND	NM	2.54
	10/29/2003	ND	1.3	ND	ND	2.32	2.22
	02/27/2007	<1.0	<1.0	<1.0	<1.0	NA	NA
MW30	08/04/2003	55.9	2.0	4.9	36.2	NM	2.59
	10/29/2003	ND	ND	ND	ND	2.36	2.48
	02/27/2007	<1.0	<1.0	<1.0	<1.0	2.64	3.73
MW31	08/04/2003	ND	ND	ND	ND	NM	5.21
	10/29/2003	ND	ND	ND	ND	1.34	4.01
	01/22/2004	<1.0	<1.0	<1.0	<3.0	4.81	4.20
	03/30/2004	<1.0	<1.0	<1.0	<3.0	2.45	6.31
	05/26/2004	<1.0	<1.0	<1.0	<3.0	2.68	6.10
	07/28/2004	<1.0	<1.0	<1.0	<3.0	2.05	5.43
	09/27/2004	<1.0	<1.0	<1.0	<3.0	2.91	5.22
	01/26/2005	<1.0	<1.0	<1.0	<3.0	0.80	4.00
	05/16/2005	<1.0	<1.0	<1.0	<2.0	1.11	4.43
	07/25/2005	<1.0	<1.0	<1.0	<2.0	2.49	6.30
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.14	16.38
	11/23/2005	<1.0	<1.0	<1.0	<2.0	1.32	5.45
	01/17/2006	<1.0	<1.0	<1.0	<2.0	1.18	5.60
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.47	6.67
	07/14/2006	<1.0	<1.0	2.2	1.5	0.65	4.84
	10/04/2006	<1.0	<1.0	<1.0	<1.0	2.42	6.00
MW32	08/04/2003	ND	ND	ND	ND	NM	NA
	10/29/2003	ND	ND	ND	ND	1.48	4.21
	01/22/2004	<1.0	<1.0	<1.0	<3.0	7.04	5.29
	03/30/2004	<1.0	<1.0	<1.0	<3.0	5.4	6.16
	05/26/2004	<1.0	<1.0	<1.0	<3.0	1.65	5.96
	07/28/2004	<1.0	<1.0	<1.0	<3.0	2.37	5.32
	09/27/2004	<1.0	<1.0	<1.0	<3.0	0.91	5.09
	01/26/2005	<1.0	<1.0	<1.0	<3.0	0.83	4.20
	05/16/2005	<1.0	<1.0	<1.0	<2.0	2.94	4.35
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.26	6.17
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.80	16.13



TABLE 1 (Continued)
GROUNDWATER ANALYTICAL AND FIELD RESULTS

PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)	Depth to Water (ft TOC)
MW32	11/23/2005	<1.0	<1.0	<1.0	<2.0	1.12	5.30
	01/17/2006	<1.0	<1.0	<1.0	<2.0	1.08	5.45
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.50	6.53
	07/14/2006	<1.0	<1.0	2.0	<1.0	0.52	4.73
	10/04/2006	<1.0	<1.0	<1.0	<1.0	3.10	5.87
	06/18/2007	<1.0	<1.0	<1.0	<1.0	1.10	3.85
	10/01/2007	<1.0	<1.0	<1.0	<1.0	1.44	5.40
	12/12/2007	<1.0	<1.0	<1.0	<1.0	1.26	5.35
	03/07/2008	<1.0	<1.0	<1.0	<1.0	0.55	5.27
	06/20/2008	<1.0	<1.0	<1.0	<1.0	1.55	5.36
	09/25/2008	<1.0	<1.0	<1.0	<1.0	3.21	5.31
	12/10/2008	<1.0	<1.0	<1.0	<1.0	1.40	5.05
	03/12/2009	<1.0	<1.0	<1.0	<1.0	1.40	5.49
	06/29/2009	<1.0	<1.0	<1.0	<1.0	NA	2.71
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA	5.82
	12/29/2009	<1.00	<1.00	<1.00	<1.00	2.27	5.16
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA	4.86
Colo GW Quality Standards		5	1000	680	10000		

Notes: < - less than

ug/L - micrograms per Liter

NA - Not Analyzed/Not Available

Bold numbers indicate result equaled or exceeded standard.

ND - Not Detected

NM - Not Measured

Samples collected following the installation and operation of an air sparging/soil vapor extraction system (March 7, 2005) are shown in red.



TABLE 2
SURFACE WATER ANALYTICAL AND FIELD RESULTS
PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)
PWS01	01/28/2003	1.7	ND	ND	ND	NA
	03/07/2003	3.2	ND	ND	ND	NA
	03/17/2003	ND	ND	ND	ND	NA
	03/26/2003	ND	ND	ND	ND	NA
	04/11/2003	ND	ND	ND	ND	NA
	07/28/2003	8.9	ND	ND	ND	NA
	08/12/2003	ND	ND	ND	ND	NA
	05/16/2005	<1.0	<1.0	<1.0	<2.0	4.32
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.30
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.16
	11/23/2005	<1.0	<1.0	<1.0	<2.0	NA
	01/17/2006	<1.0	<1.0	<1.0	<2.0	NA
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.32
	07/14/2006	<1.0	<1.0	1.8	<1.0	NA
	10/04/2006	<1.0	<1.0	<1.0	<1.0	NA
	02/27/2007	<1.0	<1.0	<1.0	<1.0	NA
	06/18/2007	<1.0	<1.0	<1.0	<1.0	NA
	10/01/2007	<1.0	<1.0	<1.0	<1.0	NA
	12/12/2007	<1.0	<1.0	<1.0	<1.0	NA
	03/07/2008	<1.0	<1.0	<1.0	<1.0	NA
	06/20/2008	<1.0	<1.0	<1.0	<1.0	NA
	09/25/2008	<1.0	<1.0	<1.0	<1.0	NA
	12/10/2008	<1.0	<1.0	<1.0	<1.0	NA
	03/12/2009	<1.0	<1.0	<1.0	<1.0	2.85
	06/29/2009	<1.0	<1.0	<1.0	<1.0	NA
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA
	12/29/2009	<1.00	<1.00	<1.00	<1.00	NA
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA
PWS01A	04/11/2003	ND	2.2	ND	ND	NA
	08/12/2003	ND	ND	ND	ND	NA
	11/30/2004	<1.0	<1.0	<1.0	<1.0	NA
	03/31/2005	ND	ND	ND	ND	NA
PWS02	01/28/2003	ND	ND	ND	ND	NA
	01/29/2003	ND	ND	ND	ND	NA
	03/07/2003	43.7	7.4	1.7	27.6	NA
	03/17/2003	66	3	ND	5.5	NA
	03/26/2003	20.7	10.3	ND	7	NA
	04/11/2003	2.7	ND	ND	ND	NA
	04/24/2003	ND	ND	ND	ND	NA
	07/28/2003	1.2	ND	ND	ND	NA
	08/12/2003	ND	ND	ND	ND	NA
	01/22/2004	3.7	<1.0	<1.0	<3.0	NA
	03/30/2004	1.1	<1.0	<1.0	<3.0	NA
	05/26/2004	<1.0	<1.0	<1.0	<3.0	NA
	07/28/2004	3.9	<1.0	<1.0	<3.0	NA



TABLE 2 (Continued)
SURFACE WATER ANALYTICAL AND FIELD RESULTS
PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)
PWS02	09/27/2004	1.9	<1.0	<1.0	<3.0	NA
	11/30/2004	<1.0	<1.0	<1.0	<1.0	NA
	01/26/2005	5.9	<1.0	<1.0	<3.0	1.14
	04/07/2005	<1	<2	<2	ND	NA
	05/16/2005	<1.0	<1.0	<1.0	<2.0	4.60
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.32
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.30
	11/23/2005	<1.0	<1.0	<1.0	<2.0	NA
	01/17/2006	<1.0	<1.0	<1.0	<2.0	NA
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.40
	07/14/2006	<1.0	<1.0	1.8	1.3	NA
	10/04/2006	<1.0	<1.0	<1.0	<1.0	NA
	02/27/2007	<1.0	<1.0	<1.0	<1.0	NA
	06/18/2007	<1.0	<1.0	<1.0	<1.0	NA
	10/01/2007	<1.0	<1.0	<1.0	<1.0	NA
	12/12/2007	<1.0	<1.0	<1.0	<1.0	NA
	03/07/2008	<1.0	<1.0	<1.0	<1.0	NA
	06/20/2008	<1.0	<1.0	<1.0	<1.0	NA
	09/25/2008	<1.0	<1.0	<1.0	<1.0	NA
	12/10/2008	<1.0	<1.0	<1.0	<1.0	NA
	03/12/2009	<1.0	<1.0	<1.0	<1.0	2.67
	06/29/2009	<1.0	<1.0	<1.0	<1.0	NA
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA
	12/29/2009	<1.00	<1.00	<1.00	<1.00	NA
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA
PWS02A	04/11/2003	16	ND	ND	ND	NA
	04/24/2003	ND	ND	ND	ND	NA
	11/30/2004	<1.0	<1.0	<1.0	<1.0	NA
PWS02B	04/24/2003	ND	ND	ND	ND	NA
PWS03	01/28/2003	ND	ND	ND	ND	NA
	03/07/2003	ND	ND	ND	ND	NA
	03/17/2003	2.4	ND	ND	ND	NA
	03/26/2003	1.5	ND	ND	ND	NA
	04/11/2003	ND	ND	ND	ND	NA
	07/28/2003	ND	ND	ND	ND	NA
	08/12/2003	6.2	1.7	ND	ND	NA
	01/22/2004	2.6	1.1	<1.0	<3.0	NA
	03/30/2004	36.8	6.0	<1.0	7.0	NA
	05/26/2004	4.3	<1.0	<1.0	<3.0	NA
	07/28/2004	53.1	12.2	2.1	28.1	NA
	09/27/2004	9.8	<1.0	<1.0	<3.0	NA
	11/30/2004	1	<1.0	<1.0	<1.0	NA
	01/26/2005	17	<1.0	<1.0	2.3	1.87
	04/07/2005	1.8	<2	<2	ND	NA
	05/16/2005	<1.0	<1.0	<1.0	<2.0	4.40



TABLE 2 (Continued)
SURFACE WATER ANALYTICAL AND FIELD RESULTS

PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)
PWS03	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.12
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.27
	11/23/2005	<1.0	<1.0	<1.0	<2.0	NA
	01/17/2006	<1.0	<1.0	<1.0	<2.0	NA
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.32
	07/14/2006	1.0	<1.0	<1.0	14	NA
	10/04/2006	<1.0	<1.0	<1.0	<1.0	NA
	02/27/2007	<1.0	<1.0	<1.0	<1.0	NA
	06/18/2007	<1.0	<1.0	<1.0	<1.0	NA
	10/01/2007	<1.0	<1.0	<1.0	<1.0	NA
	12/12/2007	<1.0	<1.0	<1.0	<1.0	NA
	03/07/2008	<1.0	<1.0	<1.0	<1.0	NA
	06/20/2008	<1.0	<1.0	<1.0	<1.0	NA
	09/25/2008	<1.0	<1.0	<1.0	<1.0	NA
	12/10/2008	<1.0	<1.0	<1.0	<1.0	NA
	03/12/2009	<1.0	<1.0	<1.0	<1.0	2.91
	06/29/2009	<1.0	<1.0	<1.0	<1.0	NA
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA
PWS04	01/28/2003	ND	ND	ND	ND	NA
	11/30/2004	<1.0	<1.0	<1.0	<1.0	NA
	03/31/2005	ND	ND	ND	ND	NA
	05/16/2005	<1.0	<1.0	<1.0	<2.0	4.75
	07/25/2005	<1.0	<1.0	<1.0	<2.0	1.30
	09/06/2005	<1.0	<1.0	<1.0	<2.0	1.20
	11/23/2005	<1.0	<1.0	<1.0	<2.0	NA
	01/17/2006	<1.0	<1.0	<1.0	<2.0	NA
	04/20/2006	<1.0	<1.0	<1.0	<1.0	2.40
	07/14/2006	<1.0	<1.0	1.6	<1.0	NA
	10/04/2006	<1.0	<1.0	<1.0	<1.0	NA
	02/27/2007	<1.0	<1.0	<1.0	<1.0	NA
	03/07/2007	<1.0	<1.0	<1.0	<1.0	NA
	06/18/2007	<1.0	<1.0	<1.0	<1.0	NA
	10/01/2007	<1.0	<1.0	<1.0	<1.0	NA
	12/12/2007	<1.0	<1.0	<1.0	<1.0	NA
	03/07/2008	<1.0	<1.0	<1.0	<1.0	NA
	06/20/2008	<1.0	<1.0	<1.0	<1.0	NA
	09/25/2008	<1.0	<1.0	<1.0	<1.0	NA
	12/10/2008	<1.0	<1.0	<1.0	<1.0	NA
	03/12/2009	<1.0	<1.0	<1.0	<1.0	3.01
	06/29/2009	<1.0	<1.0	<1.0	<1.0	NA
	09/03/2009	<1.0	<1.0	<1.0	<1.0	NA
	12/29/2009	<1.00	<1.00	<1.00	<1.00	NA
	03/16/2010	<1.0	<1.0	<1.0	<1.0	NA
PWS04A	03/07/2003	ND	ND	ND	ND	NA
	03/17/2003	1.3	ND	ND	ND	NA



TABLE 2 (Continued)
SURFACE WATER ANALYTICAL AND FIELD RESULTS
PEPPLER 3-36
SWNW SECTION 36 T5N 66W
WELD COUNTY, COLORADO
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Dissolved Oxygen (mg/L)
PWS04A	03/26/2003	ND	ND	ND	ND	NA
	04/11/2003	ND	ND	ND	ND	NA
	07/28/2003	1.2	ND	ND	ND	NA
	08/12/2003	2	ND	ND	ND	NA
CDPHE, FIS (applies thru Nov 1, 2004)		71	NSD	29,000	NSD	
CDPHE, WS (applies after Nov 1, 2004)		2.3	1,000	700	1,400	

Notes: < - less than ND - Not Detected CDPHE - Colorado Dept. of Public Health and Environment
NA - Not Analyzed NSD - No Standard CDPHE, FIS - CDPHE Fish Ingestion Standard
ug/L - micrograms per Liter mg/L - milligrams per Liter CDPHE, WS - CDPHE Water Supply Standard
Bold numbers indicate result equaled or exceeded applicable standard.

