Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
HX	199-H1-1	E	12/3/2012	42	11/19/2013	37.8	10/2/2014	39	10	-3
HX	199-H1-2	E	11/26/2012	44.2	11/19/2013	49.8	12/11/2014	46.1	-13	7
HX	199-H1-25	E	10/1/2012	34	10/8/2013	28	10/2/2014	22	18	21
HX	199-H1-27	E	10/28/2012	32.9	10/8/2013	35	10/2/2014	41	-6	-17
HX	199-H1-3	E	9/4/2011	31	8/13/2013	2 (U)	8/5/2014	46	94	-2200
HX	199-H1-32	E	11/26/2012	23.8	9/3/2013	17	12/11/2014	20.8	29	-22
HX	199-H1-33	E	11/26/2012	16.4	9/3/2013	16	12/11/2014	17.1	2	-7
HX	199-H1-34	E	10/28/2012	13.2	10/8/2013	19	10/2/2014	18	-44	5
HX	199-H1-35	E	10/28/2012	18.6	11/4/2013	22	11/10/2014	19.4	-18	12
HX	199-H1-36	E	12/3/2012	48	11/19/2013	48.5	11/4/2014	49	-1	-1
HX	199-H1-37	E	10/16/2012	12.1	11/19/2013	10.2	11/10/2014	9.3	16	9
HX	199-H1-38	E	12/3/2012	12	11/19/2013	10.4	11/10/2014	11.1	13	-7
HX	199-H1-39	E	10/28/2012	7.7	8/13/2013	3.8 (B)	10/2/2014	12	51	-216
HX	199-H1-4	E	10/28/2012	45.7	11/4/2013	37	10/2/2014	35	19	5
HX	199-H1-40	E	10/1/2012	6	10/8/2013	4 (B)	11/10/2014	8.1	33	-103
HX	199-H1-42	E	11/26/2012	26.6	11/19/2013	36.2	11/4/2014	43	-36	-19
HX	199-H1-43	E	12/3/2012	26	11/19/2013	38.3	11/4/2014	35	-47	9
HX	199-H1-45	E	11/26/2012	7.9	11/4/2013	4	12/2/2014	8	49	-100

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
HX	199-H1-6	E	12/3/2012	24	11/19/2013	28.9	12/16/2014	31.3	-20	-8
	199-H1-7	M	10/19/2012	4.2 (B)	10/25/2013	2 (U)	10/31/2014	17.2	52	-760
	199-H3-2A	M	11/15/2012	2 (U)	12/13/2013	2 (U)	12/12/2014	1.5 (U)	NC	NC
	199-H3-2B	M	—	—	—	—	—	—	—	—
	199-H3-3	M	10/19/2012	14	10/25/2013	17.2	10/31/2014	10.4	-23	40
HX	199-H3-4	E	10/16/2012	16.3	11/19/2013	8.3	11/10/2014	6.3	49	24
	199-H3-5	M	10/19/2012	11.7	10/25/2013	2.1 (B)	10/31/2014	2.8	82	-33
	199-H3-6	M	10/19/2012	4.7 (B)	9/13/2013	3.8 (B)	10/31/2014	12.1	19	-218
	199-H3-7	M	10/19/2012	2 (U)	9/13/2013	2.1 (B)	10/31/2014	1.7	-5	19
HR-3	199-H4-3		9/7/2012	65.6	Decommissioned in 2013	—	—	—	—	—
HR-3/HX	199-H4-4	EC/E	11/1/2012	14.8	11/19/2013	14.1	12/16/2014	11.4	5	19
HR-3	199-H4-5	C	11/15/2012	12.5	12/13/2013	8	12/12/2014	2.8	36	65
	199-H4-6	M	10/12/2012	2 (U)	10/17/2013	2 (U)	10/24/2014	1.5 (U)	NC	NC
	199-H4-7		12/20/2012	37.3	Decommissioned in 2013	—	—	—	—	—
	199-H4-8	M	11/1/2012	13.4	—	—	11/5/2014	4.7	—	—

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	199-H4-9		10/12/2012	12.2	Decommissioned in 2013	—	—	—	—	—
	199-H4-10	M	11/15/2012	7.4	12/13/2013	2.1 (B)	12/12/2014	4.4	72	-110
	199-H4-11	M	10/19/2012	7	12/13/2013	7.5	10/31/2014	7.4	-7	1
HR-3	199-H4-12A	M	11/1/2012	32.4	10/25/2013	22.3	11/5/2014	14.7	31	34
	199-H4-12B	M	—	—	—	—	—	—	—	—
	199-H4-13	M	11/15/2012	5.2	12/13/2013	4 (B)	12/12/2014	3.1	23	23
	199-H4-14		—	—	5/9/2013	10.6	Decommissioned in 2013	—	—	100
HR-3/HX	199-H4-15A	E/E	12/3/2012	17	11/4/2013	22	12/2/2014	18	-29	18
	199-H4-15B	M	—	—	—	—	—	—	—	—
	199-H4-15CP (deep well)	M	10/12/2012	5.3	10/17/2013	4.5 (B)	11/23/2014	1.5 (U)	15	67
	199-H4-15CR (deep well)	M	10/12/2012	2 (U)	10/17/2013	7	11/23/2014	9.7	-250	-39
	199-H4-15CQ	M	10/17/2012	2 (U)	10/17/2013	2 (U)	11/23/2014	4.8	NC	-140
	199-H4-16	M	10/19/2012	2 (U)	10/25/2013	2 (U)	10/31/2014	2.2	NC	-10
	199-H4-45	M	11/26/2012	2.9 (B)	12/13/2013	4 (B)	12/12/2014	1.5 (U)	-38	63

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	199-H4-46	M	10/19/2012	2 (B)	10/25/2013	2 (U)	10/31/2014	5	0	-150
	199-H4-48		11/15/2012	14.8	Decommissioned in 2013	—	—	—	—	—
	199-H4-49	M	10/22/2012	11.2	10/25/2013	10.4	10/31/2014	6.7	7	36
HR-3/HX	199-H4-63	EC/E	9/4/2012	17	11/4/2013	13	9/4/2014	13	24	0
HR-3/HX	199-H4-64	EC/E	11/26/2012	13.7	10/8/2013	12	12/2/2014	9	12	25
	199-H4-65	M	10/19/2012	2.1 (B)	11/15/2013	16.4	10/31/2014	20.5	-681	-25
HX	199-H4-69	E	11/26/2012	6.2	11/4/2013	8	12/16/2014	10.1	-29	-26
HX	199-H4-70	E	10/28/2012 and 11/26/2012	2 (U)	11/19/2013	2 (U)	9/4/2014	2	NC	0
HX	199-H4-75	E	10/28/2012	58.3	11/19/2013	53.9	12/2/2014	57	8	-6
HX	199-H4-76	E	9/4/2012	65	11/19/2013	66.5	11/4/2014	60	-2	10
HX	199-H4-77	E	9/4/2012	73	11/19/2013	69.3	10/29/2014	51.2	5	26
	199-H4-84	M	12/10/2012	24.4	12/2/2013	9.68 (U)	9/9/2014	16	60	-65
	199-H4-85	M	—	—	10/25/2013	26.4	10/31/2014	27.1	—	-3
	199-H4-86	M	—	—	11/15/2013	90.8	11/7/2014	85.5	—	6
	199-H4-90	M	—	—	9/12/2013	10.4	9/12/2014	17	—	-63
	199-H4-91	M	—	—	9/9/2013	62.2	9/26/2014	40	—	36
	199-H5-1A	M	10/19/2012	20.3	10/25/2013	7.7	11/7/2014	6.7	62	13

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	199-H6-1	M	10/19/2012	10.3	10/25/2013	4.3 (B)	11/5/2014	3.2	58	26
	199-H6-3	M	10/19/2012	18.6	10/25/2013	17.2	11/5/2014	16.1	8	6
	199-H6-4	M	10/19/2012	24	10/25/2013	14.5	11/7/2014	11.4	40	21
	699-88-41	M	10/17/2012	10.5	11/1/2013	12.8	10/24/2014	9.5	-22	26
	699-90-45	M	10/12/2012	4.7 (B)	10/25/2013	6.7	10/24/2014	4.2	-43	37
	699-91-46A	M	10/12/2012	6.5	10/2/2013	8.8	10/24/2014	7.2	-35	18
	699-94-41	M	11/13/2012	12.7	11/18/2013	14.3	11/3/2014	13.1	-13	8
	699-94-43	M	11/14/2012	43.2	11/25/2013	48	11/3/2014	41.1	-11	14
	699-95-45	M	11/14/2012	36.9	11/18/2013	10.7	11/3/2014	5.4	71	50
	699-96-43	M	10/12/2012	65.2	11/13/2013	58.2	11/21/2014	53.6	11	8
	699-97-41	M	11/28/2012	15.6	11/25/2013	21.9	12/19/2014	55.6	-40	-154
	699-97-43B	M	10/12/2012	67.5	11/1/2013	59.1	10/24/2014	53.7	12	9
	699-97-45	M	10/17/2012	40.1	11/1/2013	44.5	10/24/2014	47	-11	-6
	699-98-43	M	10/12/2012	54.9	11/1/2013	56.7	10/24/2014	52.6	-3	7
	699-98-46	M	11/13/2012	37.8	11/26/2013	32.4	11/4/2014	31.8	14	2
	699-99-41	M	11/28/2012	5.6	11/25/2013	4.7 (B)	11/7/2014	14.4	16	-206
	699-99-44	M	11/13/2012	26.5	11/26/2013	39.7	11/14/2014	35.1	-50	12

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	699-100-43 B	M	10/12/2012	7.3	11/1/2013	3.3 (B)	10/24/2014	5.4	55	-64
	699-101-45	M	10/17/2012	19.7	11/1/2013	23	10/24/2014	26.1	-17	-13
Aquifer Tubes										
	44-M	AT	11/1/2012	2.4 (B)	11/25/2013	2 (U)	11/3/2014	1.5 (U)	17	NC
	45-S	AT	11/7/2012	2 (U)	1/13/2014[b]	2 (UN)	11/4/2014	1.6	NC	20
	45-M	AT	11/6/2012	2 (U)	1/13/2014[b]	2 (UN)	11/4/2014	1.5 (U)	NC	NC
	45-D	AT	11/6/2012	2 (U)	1/13/2014[b]	3.6 (B)	11/4/2014	7.1	-80	-97
	47-M	AT	11/13/2012	2.6 (B)	12/3/2013	8	11/12/2014	6.2	-208	23
	47-D	AT	11/13/2012	2 (U)	12/3/2013	9	11/12/2014	4	-350	56
	48-S	AT	11/8/2012	10.2	12/4/2013	4.5 (B)	11/13/2014	4.7	56	-4
	48-M	AT	11/8/2012	10.3	12/3/2013	8	11/13/2014	4.4	22	45
	49-D	AT	11/14/2012	6.4	11/25/2013	10.3	11/13/2014	8.2	-61	20
	50-S	AT	11/26/2012	7.4	—	—	1/13/2015[c]	12	—	—
	50-M	AT	11/14/2012	7.1	—	—	1/13/2015[c]	8.5	—	—
	52-S	AT	11/14/2012	2 (U)	—	—	12/18/2015	1.5 (U)	—	—
	52-M	AT	11/14/2012	2 (U)	—	—	12/18/2015	1.5 (U)	—	—
	52-D	AT	11/14/2012	2 (U)	—	—	12/18/2015	1.5 (U)	—	—
	54-S	AT	11/14/2012	2 (U)	—	—	12/18/2015	2	—	—

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	54-M	AT	11/14/2012	2 (U)	—	—	12/18/2015	4.7	—	—
	54-D	AT	11/14/2012	2 (U)	—	—	12/18/2015	3.4	—	—
	AT-H-1-D	AT	11/7/2012	4.5 (B)	—	—	—	—	—	—
	AT-H-1-M	AT	11/7/2012	2 (U)	12/3/2013	8	11/5/2014	19.2	-300	-140
	AT-H-1-S	AT	11/7/2012	4.6 (B)	12/3/2013	8	11/5/2014	14.7	-74	-84
	AT-H-2-D	AT	11/7/2012	4.5 (B)	1/9/2014[b]	2 (U)	11/6/2014	7.8	56	-290
	AT-H-3-D	AT	11/7/2012	4.2 (B)	12/3/2013	11	11/5/2014	48.6	-162	-342
	AT-H-3-S	AT	11/7/2012	2.9 (B)	12/3/2013	13	11/5/2014	22.3	-348	-72
	C5632	AT	10/31/2012	2.1 (B)	—	—	10/30/2014	1.5 (U)	—	—
	C5633	AT	10/31/2012	7	—	—	10/30/2014	8.2	—	—
	C5634	AT	10/31/2012	4.7 (B)	—	—	10/30/2014	1.5	—	—
	C5635	AT	10/31/2012	2 (U)	—	—	10/30/2014	2.6	—	—
	C5636	AT	10/31/2012	11.2	—	—	10/30/2014	10.2	—	—
	C5637	AT	10/31/2012	7	—	—	10/30/2014	5.7	—	—
	C5638	AT	10/31/2012	8.6	12/2/2013	17 (B)	10/30/2014	5.7		
	C5641	AT	10/31/2012	24.7	12/2/2013	29.7 (B)	10/30/2014	33.5		
	C5644	AT	11/1/2012	4.9 (B)	—	—	11/3/2014	3.8	—	—
	C5673	AT	11/1/2012	5.7	—	—	11/4/2014	6.8	—	—

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	C5674	AT	11/1/2012	4.8 (B)	—	—	11/4/2014	5.5	—	—
	C5676	AT	11/1/2012	4.3 (B)	—	—	11/4/2014	9.1	—	—
	C5677	AT	11/1/2012	5.2	—	—	11/4/2014	6.3	—	—
	C5678	AT	11/1/2012	6.6	12/2/2013	9.68 (U)	11/4/2014	4.7	-47	51
	C5679	AT	11/1/2012	2.6 (B)	1/14/2014[b]	2 (BN)	11/4/2014	1.5 (U)	23	25
	C5680	AT	11/1/2012	5.5	1/14/2014[b]	5.2 (N)	11/4/2014	5.2	5	0
	C5681	AT	11/1/2012	4.4 (B)	—	—	12/22/2014	2.4	—	—
	C5682	AT	11/6/2012	2 (U)	12/3/2013	9	11/5/2014	9.5	-350	-6
	C5684	AT	10/31/2012	3.9 (B)	—	—	10/30/2014	3.3	—	—
	C5685	AT	10/31/2012	4.3 (B)	—	—	10/30/2014	4.3	—	—
	C6286	AT	10/31/2012	6.5	—	—	10/30/2014	6.6	—	—
	C6287	AT	10/31/2012	5.9	—	—	*10/30/2014*	11.4	—	—
	C6288	AT	10/31/2012	12.5	1/14/2014[b]	10.4	10/30/2014	13.1	17	-26
	C6290	AT	11/6/2012	2 (U)	1/13/2014[b]	2 (UN)	—	—	NC	—
	C6291	AT	11/6/2012	2.1 (B)	1/13/2014[b]	2 (UN)	11/6/2014	17.7	5	-785
	C6293	AT	11/6/2012	2 (U)	1/9/2014[b]	2 (U)	11/5/2014	12	NC	-500
	C6296	AT	11/13/2012	2 (U)	1/9/2014[b]	3.2 (B)	11/12/2014	1.5 (U)	-60	53

Table 2-10. Cr(VI) Concentrations for Wells and Aquifer Tubes Monitoring the 100-HR-3 (H), HR-3, and HX P&T Systems, 2011 to 2013

P&T System	Well or Aquifer Tube Name	Use	Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Fall[a] 2014 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Increase)	
			Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
	C6297	AT	11/13/2012	8.3	1/9/2014[b]	10.5	11/12/2014	8.3	-27	21
	C6299	AT	11/13/2012	2 (U)	1/9/2014[b]	2 (U)	11/13/2014	1.5 (U)	NC	NC
	C6300	AT	11/13/2012	4.4 (B)	1/9/2014[b]	2.3 (B)	11/13/2014	1.5 (U)	48	35
	C6301	AT	11/13/2012	9.2	1/9/2014[b]	2 (U)	11/13/2014	15.6	78	-680
	C7649	AT	11/13/2012	2.1 (B)	1/9/2014[b]	2.1 (B)	1/13/2015	28.2[c]	0	-1,243
	C7650	AT	11/13/2012	24.6	1/9/2014[b]	30.9	1/12/2015	4.5 (B)[c]	-26	85

Notes: The percent change in concentration is calculated using the following formula: $([Cr(VI)]_{year\ 1}-[Cr(VI)]_{year\ 2})/[Cr(VI)]_{year\ 1}$.

If more than one sample was collected on the same date, the maximum result was used.

a. Fall represents the period from October 1 to December 31 for the specified calendar year. The maximum concentration reported during this period is listed. If a higher result was reported in September, the September result is listed.
If no Cr(VI) results were reported during this period, the result reported for the next closest date prior to October 1 but no earlier than September 1 is listed.

b. Fall 2013 sample was collected in January 2014.

c. Fall 2014 sample was collected in January 2015

— = indicates that the sample was not collected, analysis was not performed, or the change in concentration was not calculated

AT = aquifer tube

C = compliance well

Cr(VI) = hexavalent chromium

E = extraction well

I = injection well

M = monitoring well

NC = not calculated (if both results included a nondetect "U" laboratory qualifier)

P = performance well

U = undetected (detection limit is listed with qualifier in parentheses)