Table 4-3. Strontium-90 Concentrations in Monitoring Wells and Aquifer Tubes

Well/Tube Name	1994 (pCi/L)	2005 (pCi/L)	2008 (pCi/L)	2009 (pCi/L)	2010 (pCi/L)	2011 (pCi/L)	2012 (pCi/L)	2013 (pCi/L)	2014 (pCi/L)	Percent Change, 1994 to 2014	Percent Change 2005 to 2014
199-N-2	121	80.7	1,100	160	NS	NS	3,300	1,040	777	542	863
199-N-3	927	1,330	1,200	1,060	870	1,200	1,300	960	938	1	-29
199-N-14	1,210	1,070	1,300	1,360	1,400	1,730	960	1,200	1,120	-7	5
199-N-16	0.34	-0.08 (U)	0.06 (U)	-0.04 (U)	-2.70 (U)	-0.12 (U)	0.11 (U)	Decommissioned 12/18/2012	Decommissioned 12/18/2012	NC	NC
199-N-18	392	NS	290	-12 (U)	260	203	In use for TPH-diesel remediation	In use for TPH-diesel remediation	In use for TPH-diesel remediation	NC	NC
199-N-19	43.6	28.2	NS	NS	23	26.4	23	22	23[h]	-48	-20
199-N-21	1.50	NS	NS	-2.60 (U)	-7.6 (U)	1.22	1.2	1.8	0.31 (U)	NC	NC
199-N-27	171	167	160	130	125	194	200	130	129	-25	-23
199-N-28	120	25.1	21	25	20	34.9	35	24	33	-72	33
199-N-32	1.27	0.358 (U)	-1.40 (U)	-1.60 (U)	-4.8 (U)	0.15 (U)	0.36 (U)	0.77 (U)	0.37 (U)	NC	NC
199-N-34	69.3	53.5	67	44	37	57.4	45	42	42	-40	-22
199-N-41	0.004 (U)	-0.10 (U)	-0.41 (U)	-1.20 (U)	-1.80 (U)	0.50 (U)	1	NS	0.48 (U)	NC	NC
199-N-46	5,850	2,690	630	580	530	1,220	1,035	1,400	1,570	-73	-42
199-N-50	-0.02 (U)	NS	NS	NS	-0.20 (U)	-0.13 (U)	0.23 (U)	0.8 (U)	0.17 (U)	NC	NC
199-N-51	0.254 (U)	0.11 (U)	NS	N	-5.30 (U)	0.52 (U)	0.26 (U)	0.78 (U)	0.16 (U)	NC	NC
199-N-56	164[a]	317	170	140	-7.5 (U)	490	560	380	338	NC	7
199-N-57	26	9.71	8.51	2.90	5.80	15.2	15.5	12	10	-60	6
199-N-64	0.185 (U)	0.785 (U)	0.256 (U)	-5.30 (U)	-4.60 (U)	0.48 (U)	3	0.49 (U)	1.2 (U)	NC	NC

Table 4-3. Strontium-90 Concentrations in Monitoring Wells and Aquifer Tubes

Well/Tube Name	1994 (pCi/L)	2005 (pCi/L)	2008 (pCi/L)	2009 (pCi/L)	2010 (pCi/L)	2011 (pCi/L)	2012 (pCi/L)	2013 (pCi/L)	2014 (pCi/L)	Percent Change, 1994 to 2014	Percent Change 2005 to 2014
199-N-67	3,680	9,710	10,000	9,000	9,800	13,500	11,550	14,000	15,500	321	60
199-N-69[b]	-0.09 (U)	0.21 (U)	NS	NS	-3.20 (U)	2.96	12	4.8	3	NC	NC
199-N-70[b]	0.321 (U)	0.156 (U)	-2.60 (U)	-2.40 (U)	-3.80 (U)	0.79	1.2	1.2	0.54 (U)	NC	NC
199-N-71	0.55	NS	0.38 (U)	-0.05 (U)	-2.80 (U)	-3.90 (U)	0.29 (U); 1.1	0.65 (U)	0.60 (U)	NC	NC
199-N-72	2.59[c]	NS	-1.00 (U)	NS	-1.70 (U)	-2.60 (U)	NS	NS	NS	NC	NC
199-N-73	0.53	NS	NS	NS	NS	NS	NS	NS	NS	NC	NC
199-N-74	0.415	-0.08 (U)	2.3[c]	405[c]	-2.0 (U)	-3.60 (U)	NS	NS	NS	NC	NC
199-N-75[d]	2,110	307	2,500	3,000	2,400	NS	3,200	2,500	2,540	20	727
199-N-76	84.9	216	180	180	120	387	1,120	690	440	418	104
199-N-77	0.45	NS	NS	NS	NS	NS	NS	NS	NS	NC	NC
199-N-80[b]	0.734 (Q)	-0.154 (U)	0.82 (U)	-0.07 (U)	-5.9 (U)	0.22 (U)	0.77 (U)	1.5	2	NC	NC
199-N-81	746	734	970	400	320	395	450	490	475	-36	-35
199-N-92A	0.59 (U)	0.92	1.22	3.50	-9 (U)	0.60	0.47 (U)	0.69 (U)	1	NC	41
199-N-96A	4.90[e]	5.74	1.65	-1.30 (U)	3.94	9.90	2.04	5.9	2	NC	-74
199-N-99A	2,860[e]	1,270	1,200	1,400	1,500	1,020	666.5	1,230	1,600	NC	26
199-N-103A[d,g]	4.08[e]	422	1,200	1,200	1,400	1,360	1,600	1,300	1,420	NC	236
199-N-104A	5.68[e]	NS	NS	NS	NS	NS	380	260	NS	NC	NC
199-N-105A[d,g]	112[e]	1,360	1,900	1,500	1,600	6,580	6,100	1,900	2,210	NC	63
199-N-106A[d,g]	2,890[e]	3,260	2,200	1,800	NS	2,370	3,035	2,200	2,240	NC	-31

Table 4-3. Strontium-90 Concentrations in Monitoring Wells and Aquifer Tubes

Well/Tube Name	1994 (pCi/L)	2005 (pCi/L)	2008 (pCi/L)	2009 (pCi/L)	2010 (pCi/L)	2011 (pCi/L)	2012 (pCi/L)	2013 (pCi/L)	2014 (pCi/L)	Percent Change, 1994 to 2014	Percent Change 2005 to 2014
199-N-119	—	280	250	210	220	274	56	41	29	NC	-90
199-N-120[b]	—	10.1	6.55	NS	1.40 (U)	6.93	58	5.7	4	NC	-58
199-N-121[b]	—	0.272 (U)	0.0169 (U)	NS	-2.00 (U)	-0.02 (U)	0.23 (U)	-0.21 (U)	0.33 (U)	NC	NC
199-N-122	—	730	1,160	260	800	740	656	560	907	NC	24
199-N-123	—	871	255	-1.60 (U)	280	1,770	204	140	120	NC	-86
199-N-146	—	318[f]	412	260	300	328	215	270	256	NC	NC
199-N-147	—	522[f]	791	250	250	478	250	120	231	NC	NC
199-N-165	—	—	—	-1.90 (U)	-6.60 (U)	0.14 (U)	0.57 (U)	1.6	-0.39 (U)	NC	NC
199-N-173	—	—	—	16	23	19	14.5	22	25	NC	NC
199-N-182	—	—	—	—	—	—	110	140	144	NC	NC
199-N-183	--	--	--	—	—	—	120	100	82	NC	NC
199-N-184	—	—	—	—	—	—	5,000	1,100	1,150	NC	NC
199-N-185	—	—	—	—	—	—	3.9	7.6	8	NC	NC
199-N-186	—	—	—	—	—	—	810	390	420	NC	NC
199-N-187	—	—	—	—	—	—	8,600	11,400	12,800	NC	NC
199-N-188	—	—	—	—	—	—	1,500	2,500	2,280	NC	NC
199-N-189	—	—	—	—	—	—	0.02 (U)	0.39 (U)	0.85 (U)	NC	NC
C7934	—	—	—	—	300	—	93	310	321	NC	NC
C7935	—	—	—	—	300	—	190	280	356	NC	NC
C7936	--	—	—	—	69	—	55	96	83	NC	NC

Table 4-3. Strontium-90 Concentrations in Monitoring Wells and Aquifer Tubes

Well/Tube Name	1994 (pCi/L)	2005 (pCi/L)	2008 (pCi/L)	2009 (pCi/L)	2010 (pCi/L)	2011 (pCi/L)	2012 (pCi/L)	2013 (pCi/L)	2014 (pCi/L)	Percent Change, 1994 to 2014	Percent Change 2005 to 2014
APT-1	--	3,400[f]	—	—	500	530	840	270	211	NC	NC
APT-5	—	2,100[f]	—	—	450	420	270	120	184	NC	NC
N116mArray-3A	—	379	1,750[c]	500	110	248	240	170	190	NC	-50
N116mArray-4A	—	1,260	7,000[c]	340	270	226	250	280	342	NC	-73
NVP2-116.0	—	3,200	2,550[c]	1,100	1,200	1,100	733	700	845	NC	-74
N116mArray-6A	—	477	370[c]	95[c]	110	170	190	130	251	NC	-47

Notes: Data are reported from the fall of the year, unless otherwise noted.

Yellow-shaded cells indicate wells with concentrations above the drinking water standard (8 pCi/L).

a. Not sampled in 1994; value from 1993 used for table.

b. Screened at depth in Ringold Formation.

c. Value calculated from gross-beta data (no strontium-90 data available); value listed is one-half of the gross-beta value measured.

d. Former P&T extraction well.

e. Not sampled in 1994; value from 1995 used for table.

f. Not sampled in 2005; value from 2006 used for table.

g. A P&T system was operated from 1995 through 2006.

h. Sampled on 1/20/2015.

NC = not calculated

NS = not sampled

P&T = pump-and-treat

Q = associated with out-of-limits quality control samples

TPH = total petroleum hydrocarbon-diesel

U = nondetect