Row Name	Sources Included
S-101Row	241-S-101 241-S-102 241-S-103
S-104 Row	241-S-104 241-S-105 241-S-106
S-107 Row	241-S-107 241-S-108 241-S-109
S-110 Row	241-S-110 241-S-111 241-S-112
SX-101 Row	241-SX-101 241-SX-102 241-SX-103
SX-101 Row +MUSTs	241-SX-101 241-SX-102 241-SX-103 241-SX-302
SX-104 Row	241-SX-104 241-SX-105 241-SX-106
SX-107 Row	241-SX-107 241-SX-108 241-SX-109
SX-110 Row	241-SX-110 241-SX-111 241-SX-112
SX-113 Row	241-SX-113 241-SX-114 241-SX-115

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.04E-15	2281	0	0
14C	Carbon-14	1.18E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	8.28E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	7.98E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	9.29E-06	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	7.64E-06	8201		0
16887-00-6	Chloride	3.66E-05	8201		0
18540-29-9	Chromium	7.74E-04	8201	0	0
7440-48-4	Cobalt	3.71E-08	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.44E-06	8201		0
OHDEMAND	Hydroxide OH	3.48E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.82E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	8.19E-06	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.49E-03	8201	0	0
14797-65-0	Nitrite	5.17E-04	8201	0	0
338-70-5	Oxalate	7.10E-04	8201		0
14265-44-2	Phosphate	1.53E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	7.20E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.74E-04	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:55:39 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-101 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	9.07E-16	2281	0	0
14C	Carbon-14	2.61E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	7.19E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.75E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	6.44E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.75E-04	8201		0
16887-00-6	Chloride	8.77E-05	8201		0
18540-29-9	Chromium	7.37E-03	8201	0	0
7440-48-4	Cobalt	7.48E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.18E-05	8201		0
OHDEMAND	Hydroxide OH	1.56E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.92E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.83E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	5.92E-03	8201	0	0
14797-65-0	Nitrite	1.19E-03	8201	0	0
338-70-5	Oxalate	1.54E-02	8201		0
14265-44-2	Phosphate	1.92E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	3.49E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	7.98E-05	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:55:51 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-102 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
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5.7498	
21.769	
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14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
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14.35	
373507	
432.7	
7370	
0.44611	
28.499	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	7.51E-16	2281	0	0
14C	Carbon-14	2.33E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	8.69E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.35E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	4.93E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	7.85E-05	8201		0
18540-29-9	Chromium	8.84E-03	8201	0	0
16984-48-8	Fluoride	8.31E-06	8201		0
OHDEMAND	Hydroxide OH	2.64E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.71E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.95E-03	8201	0	0
14797-65-0	Nitrite	9.02E-04	8201	0	0
338-70-5	Oxalate	7.09E-03	8201		0
14265-44-2	Phosphate	1.47E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	3.40E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.57E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:55:58 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-103 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	2.29E-16	2281	0	0
14C	Carbon-14	6.15E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	3.43E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.69E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	5.77E-07	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	2.80E-06	8201		0
16887-00-6	Chloride	2.46E-05	8201		0
18540-29-9	Chromium	9.42E-05	8201	0	0
7440-48-4	Cobalt	7.92E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	1.90E-06	8201		0
OHDEMAND	Hydroxide OH	3.60E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.78E-07	8201		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.73E-03	8201	0	0
14797-65-0	Nitrite	1.85E-04	8201	0	0
338-70-5	Oxalate	2.71E-04	8201		0
14265-44-2	Phosphate	7.98E-06	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	5.60E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	8.91E-06	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:56:05 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-104 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
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14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.15E-15	2281	0	0
14C	Carbon-14	3.12E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.63E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.62E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	5.51E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	2.38E-05	8201		0
18540-29-9	Chromium	4.07E-03	8201	0	0
16984-48-8	Fluoride	7.06E-06	8201		0
OHDEMAND	Hydroxide OH	2.92E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.12E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.85E-03	8201	0	0
14797-65-0	Nitrite	1.87E-04	8201	0	0
338-70-5	Oxalate	3.52E-03	8201		0
14265-44-2	Phosphate	4.23E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	8.21E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.06E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:56:16 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-105 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.53E-15	2281	0	0
14C	Carbon-14	4.16E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	8.89E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.09E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.95E-04	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.16E-04	8201		0
16887-00-6	Chloride	8.55E-05	8201		0
18540-29-9	Chromium	9.06E-03	8201	0	0
7440-48-4	Cobalt	5.62E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	3.99E-04	8201		0
OHDEMAND	Hydroxide OH	2.68E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.22E-09	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.16E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.14E-02	8201	0	0
14797-65-0	Nitrite	8.35E-04	8201	0	0
338-70-5	Oxalate	6.11E-03	8201		0
14265-44-2	Phosphate	3.40E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	8.15E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.27E-03	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

12.33
5730
74999
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805000
28.149
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Report Generated on: 5/25/2005, 12:56:22 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-S-106 TanksSFarm_Jan01_HTWOS.txt case02.stp

Major Assumptions Used:
Dilution factor for WMA-S: 40
Compliance Monitoring Start Year :2001

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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.91E-15	2281	0	0
14C	Carbon-14	5.36E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.20E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	8.52E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	4.67E-06	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	4.00E-06	8201		0
16887-00-6	Chloride	1.32E-05	8201		0
18540-29-9	Chromium	2.83E-04	8201	0	0
7440-48-4	Cobalt	1.86E-08	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.12E-04	8201		0
OHDEMAND	Hydroxide OH	3.64E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.89E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	7.27E-06	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.65E-04	8201	0	0
14797-65-0	Nitrite	1.92E-04	8201	0	0
338-70-5	Oxalate	3.10E-04	8201		0
14265-44-2	Phosphate	2.06E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.20E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	9.43E-06	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:56:29 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-107 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
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703700000	
23420000	
4468000000	
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432.7	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.58E-15	2281	0	0
14C	Carbon-14	4.25E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	8.57E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.02E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	2.90E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.03E-04	8201		0
18540-29-9	Chromium	8.32E-03	8201	0	0
16984-48-8	Fluoride	1.34E-04	8201		0
OHDEMAND	Hydroxide OH	2.68E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.62E-07	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	9.88E-03	8201	0	0
14797-65-0	Nitrite	1.31E-03	8201	0	0
338-70-5	Oxalate	7.52E-03	8201		0
14265-44-2	Phosphate	1.62E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	8.23E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.70E-03	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:56:37 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-108 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
Infinity	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.47E-15	2281	0	0
14C	Carbon-14	3.77E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.49E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.90E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	8.47E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	2.51E-04	8201		0
16887-00-6	Chloride	1.56E-05	8201		0
18540-29-9	Chromium	5.15E-03	8201	0	0
7440-48-4	Cobalt	1.21E-06	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	5.83E-06	8201		0
OHDEMAND	Hydroxide OH	1.78E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.91E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	2.51E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.04E-02	8201	0	0
14797-65-0	Nitrite	2.51E-04	8201	0	0
338-70-5	Oxalate	6.76E-03	8201		0
14265-44-2	Phosphate	5.49E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.93E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.30E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:56:44 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-109 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
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5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
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CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.57E-15	2281	0	0
14C	Carbon-14	2.90E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.58E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.51E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	4.17E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.54E-05	8201		0
16887-00-6	Chloride	4.01E-05	8201		0
18540-29-9	Chromium	1.21E-03	8201	0	0
7440-48-4	Cobalt	7.44E-08	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	3.16E-05	8201		0
OHDEMAND	Hydroxide OH	3.79E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.70E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.69E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.15E-03	8201	0	0
14797-65-0	Nitrite	4.78E-04	8201	0	0
338-70-5	Oxalate	1.72E-03	8201		0
14265-44-2	Phosphate	1.89E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	4.20E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.53E-04	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:56:51 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-110 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
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28.499	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.84E-15	2281	0	0
14C	Carbon-14	6.66E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	4.02E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.10E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.02E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	2.17E-05	8201		0
16887-00-6	Chloride	9.11E-05	8201		0
18540-29-9	Chromium	2.00E-03	8201	0	0
7440-48-4	Cobalt	1.06E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	4.02E-05	8201		0
OHDEMAND	Hydroxide OH	3.59E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.09E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	2.17E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	7.46E-03	8201	0	0
14797-65-0	Nitrite	1.05E-03	8201	0	0
338-70-5	Oxalate	1.79E-03	8201		0
14265-44-2	Phosphate	1.59E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.29E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	8.21E-04	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:00 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-111 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
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703700000	
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4468000000	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	7.90E-17	2281	0	0
14C	Carbon-14	4.26E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	5.92E-02	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	9.99E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	3.31E-04	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	2.93E-06	8201		0
18540-29-9	Chromium	2.27E-04	8201	0	0
16984-48-8	Fluoride	3.16E-05	8201		0
OHDEMAND	Hydroxide OH	2.09E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.74E-04	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.67E-04	8201	0	0
14797-65-0	Nitrite	4.43E-05	8201	0	0
338-70-5	Oxalate	8.05E-03	8201		0
14265-44-2	Phosphate	1.90E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	8.26E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.52E-02	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:09 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-112 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-S: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	3.16E-15	2281	0	0
14C	Carbon-14	2.92E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.37E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.76E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	5.40E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.56E-04	8201		0
16887-00-6	Chloride	2.21E-04	8201		0
18540-29-9	Chromium	1.47E-02	8201	0	0
7440-48-4	Cobalt	6.58E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	3.26E-05	8201		0
OHDEMAND	Hydroxide OH	2.79E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.16E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.74E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.16E-02	8201	0	0
14797-65-0	Nitrite	9.58E-04	8201	0	0
338-70-5	Oxalate	4.60E-03	8201		0
14265-44-2	Phosphate	1.28E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	8.29E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.35E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:26 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-101 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
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28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.50E-15	2281	0	0
14C	Carbon-14	3.65E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.20E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.11E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	3.08E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	9.85E-05	8201		0
16887-00-6	Chloride	1.62E-04	8201		0
18540-29-9	Chromium	7.94E-03	8201	0	0
7440-48-4	Cobalt	4.67E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	5.04E-05	8201		0
OHDEMAND	Hydroxide OH	2.82E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.92E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	9.80E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.04E-03	8201	0	0
14797-65-0	Nitrite	2.55E-03	8201	0	0
338-70-5	Oxalate	8.97E-03	8201		0
14265-44-2	Phosphate	7.14E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	7.64E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.13E-03	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:36 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-102 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.68E-15	2281	0	0
14C	Carbon-14	3.45E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.56E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.79E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	9.86E-06	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	3.23E-05	8201		0
16887-00-6	Chloride	1.01E-04	8201		0
18540-29-9	Chromium	2.24E-03	8201	0	0
7440-48-4	Cobalt	1.46E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.89E-05	8201		0
OHDEMAND	Hydroxide OH	3.74E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.00E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	3.47E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.66E-03	8201	0	0
14797-65-0	Nitrite	1.55E-03	8201	0	0
338-70-5	Oxalate	3.11E-03	8201		0
14265-44-2	Phosphate	2.98E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	5.71E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	7.99E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:44 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-103 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
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0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.25E-15	2281	0	0
14C	Carbon-14	1.69E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.66E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	8.77E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	1.68E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	5.77E-05	8201		0
18540-29-9	Chromium	8.36E-04	8201	0	0
16984-48-8	Fluoride	1.78E-05	8201		0
OHDEMAND	Hydroxide OH	3.84E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.99E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	4.12E-03	8201	0	0
14797-65-0	Nitrite	6.40E-04	8201	0	0
338-70-5	Oxalate	8.24E-04	8201		0
14265-44-2	Phosphate	1.22E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	3.06E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.38E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:51 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-104 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.60E-15	2281	0	0
14C	Carbon-14	3.65E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	5.23E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.04E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	5.53E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	6.81E-05	8201		0
16887-00-6	Chloride	1.38E-04	8201		0
18540-29-9	Chromium	3.45E-03	8201	0	0
7440-48-4	Cobalt	3.36E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	4.17E-05	8201		0
OHDEMAND	Hydroxide OH	3.38E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.84E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	7.04E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	7.43E-03	8201	0	0
14797-65-0	Nitrite	2.37E-03	8201	0	0
338-70-5	Oxalate	5.11E-03	8201		0
14265-44-2	Phosphate	1.27E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	7.25E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	8.20E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:57:58 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-105 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.84E-15	2281	0	0
14C	Carbon-14	1.95E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	8.98E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.75E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	3.73E-05	8201		0

7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	2.21E-04	8201		0
18540-29-9	Chromium	6.99E-03	8201	0	0
16984-48-8	Fluoride	1.80E-05	8201		0
OHDEMAND	Hydroxide OH	2.18E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.04E-09	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.73E-03	8201	0	0
14797-65-0	Nitrite	2.78E-03	8201	0	0
338-70-5	Oxalate	6.96E-03	8201		0
14265-44-2	Phosphate	3.91E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.32E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.51E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:58:04 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-106 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	4.56E-16	2281	0	0
14C	Carbon-14	4.22E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.86E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.56E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	1.63E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.68E-05	8201		0
18540-29-9	Chromium	1.04E-04	8201	0	0
16984-48-8	Fluoride	9.72E-07	8201		0
OHDEMAND	Hydroxide OH	3.67E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.62E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	8.69E-04	8201	0	0
14797-65-0	Nitrite	1.77E-04	8201	0	0
338-70-5	Oxalate	1.75E-04	8201		0
14265-44-2	Phosphate	9.40E-05	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	3.27E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.41E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:58:11 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-107 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
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21.769	
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14050000000	
32759	
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245694	
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23420000	
4468000000	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	3.10E-15	2281	0	0
14C	Carbon-14	2.51E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	8.76E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	4.82E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	2.36E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	7.17E-05	8201		0
16887-00-6	Chloride	8.76E-05	8201		0
18540-29-9	Chromium	1.10E-03	8201	0	0
7440-48-4	Cobalt	1.64E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.75E-05	8201		0
OHDEMAND	Hydroxide OH	3.64E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.39E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.28E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.51E-02	8201	0	0
14797-65-0	Nitrite	6.34E-04	8201	0	0
338-70-5	Oxalate	3.61E-04	8201		0
14265-44-2	Phosphate	1.37E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.13E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	9.01E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:58:18 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-108 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
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23420000	
4468000000	
2140000	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.50E-15	2281	0	0
14C	Carbon-14	1.17E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	7.36E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	6.53E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	7.97E-06	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	6.08E-05	8201		0
18540-29-9	Chromium	2.23E-04	8201	0	0
16984-48-8	Fluoride	5.00E-07	8201		0
OHDEMAND	Hydroxide OH	3.53E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.47E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.53E-03	8201	0	0
14797-65-0	Nitrite	2.12E-04	8201	0	0
338-70-5	Oxalate	3.05E-04	8201		0
14265-44-2	Phosphate	4.72E-05	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	9.45E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.67E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:58:30 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-109 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
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0.44611	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.34E-15	2281	0	0
14C	Carbon-14	9.23E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	5.75E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	4.71E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	1.51E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	5.35E-05	8201		0
18540-29-9	Chromium	1.97E-04	8201	0	0
16984-48-8	Fluoride	1.19E-06	8201		0
OHDEMAND	Hydroxide OH	3.84E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.22E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.03E-03	8201	0	0
14797-65-0	Nitrite	2.84E-04	8201	0	0
338-70-5	Oxalate	2.75E-04	8201		0
14265-44-2	Phosphate	9.98E-05	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.00E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.48E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:58:38 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-110 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	7.57E-16	2281	0	0
14C	Carbon-14	8.36E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	3.16E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.56E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	1.69E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	2.78E-05	8201		0
18540-29-9	Chromium	1.39E-04	8201	0	0
16984-48-8	Fluoride	1.02E-06	8201		0
OHDEMAND	Hydroxide OH	3.79E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.38E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.47E-03	8201	0	0
14797-65-0	Nitrite	2.28E-04	8201	0	0
338-70-5	Oxalate	2.18E-04	8201		0
14265-44-2	Phosphate	1.06E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	1.16E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.05E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:58:50 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-111 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
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373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	6.19E-16	2281	0	0
14C	Carbon-14	7.25E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.57E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	2.03E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	1.74E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	2.27E-05	8201		0
18540-29-9	Chromium	1.26E-04	8201	0	0
16984-48-8	Fluoride	1.05E-06	8201		0
OHDEMAND	Hydroxide OH	3.78E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.16E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.19E-03	8201	0	0
14797-65-0	Nitrite	2.10E-04	8201	0	0
338-70-5	Oxalate	2.04E-04	8201		0
14265-44-2	Phosphate	1.09E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	9.90E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	9.22E-06	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:59:00 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-112 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	2.63E-17	2281	0	0
14C	Carbon-14	1.35E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	9.21E-03	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	7.31E-11	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	3.99E-07	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	4.28E-07	8201		0
16887-00-6	Chloride	9.75E-07	8201		0
18540-29-9	Chromium	5.47E-06	8201	0	0
7440-48-4	Cobalt	2.24E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	8.80E-08	8201		0
OHDEMAND	Hydroxide OH	4.02E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.86E-07	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-00-8	Neodymium	4.66E-07	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	4.88E-05	8201	0	0
14797-65-0	Nitrite	1.38E-05	8201	0	0
338-70-5	Oxalate	1.40E-05	8201		0
14265-44-2	Phosphate	1.03E-05	8201		0
7440-16-6	Rhodium	5.58E-08	8201		0
7440-18-8	Ruthenium	0		1	1
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	5.41E-05	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	5.22E-07	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	8.54E-07	8201		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:59:08 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-113 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
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69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
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432.7	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	1.61E-15	2281	0	0
14C	Carbon-14	1.17E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	7.18E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	5.62E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	9.73E-06	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	5.89E-05	8201		0
18540-29-9	Chromium	2.05E-04	8201	0	0
16984-48-8	Fluoride	6.07E-07	8201		0
OHDEMAND	Hydroxide OH	3.59E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.09E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.20E-03	8201	0	0
14797-65-0	Nitrite	3.11E-04	8201	0	0
338-70-5	Oxalate	2.78E-04	8201		0
14265-44-2	Phosphate	5.72E-05	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	8.43E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.96E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:59:17 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-114 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	2.83E-15	2281	0	0
14C	Carbon-14	4.36E-03	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	5.20E-01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	3.99E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-70-2	Calcium	0		4	5
16887-00-6	Chloride	1.42E-05	8201		0

18540-29-9	Chromium	3.65E-03	8201	0	0
OHDEMAND	Hydroxide OH	3.23E-02	8201		0
7439-89-6	Iron	0		25	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.39E-13	8201	0	0
14797-65-0	Nitrite	2.13E-05	8201	0	0
338-70-5	Oxalate	3.16E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.90E-04	8201		0
14808-79-8	Sulfate	1.25E-05	8201		0
7440-61-1	Uranium	0		0.6	0.6

Half-Life

Years	
	Report Generated on: 5/25/2005, 12:59:34 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-115 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	
5.2713	**Major Assumptions Used:**
805000	Dilution factor for WMA-SX: 40
28.149	Compliance Monitoring Start Year :2001
16.13	
1530000	
211097	
1.01736	
14.1	
246000	
2.7299	
15700000	
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
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28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	2.70E-15	2281	0	0
14C	Carbon-14	2.96E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.67E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.11E-07	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.23E-04	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.83E-04	8201		0
16887-00-6	Chloride	2.03E-04	8201		0
18540-29-9	Chromium	1.70E-02	8201	0	0
7440-48-4	Cobalt	7.85E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.26E-05	8201		0
OHDEMAND	Hydroxide OH	7.68E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.04E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.91E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.14E-02	8201	0	0
14797-65-0	Nitrite	2.61E-03	8201	0	0
338-70-5	Oxalate	2.32E-02	8201		0
14265-44-2	Phosphate	3.54E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	1.41E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	5.11E-04	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:06:32 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-101 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-S-102 TanksSFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-S-103 TanksSFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-S: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
0.44611	
28.499	
18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	2.91E-15	2281	0	0
14C	Carbon-14	7.89E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	3.55E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	6.40E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	2.51E-04	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	1.18E-04	8201		0
16887-00-6	Chloride	1.34E-04	8201		0
18540-29-9	Chromium	1.32E-02	8201	0	0
7440-48-4	Cobalt	5.70E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	4.08E-04	8201		0
OHDEMAND	Hydroxide OH	9.21E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.40E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.16E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.19E-02	8201	0	0
14797-65-0	Nitrite	1.21E-03	8201	0	0
338-70-5	Oxalate	9.90E-03	8201		0
14265-44-2	Phosphate	3.83E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.20E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.38E-03	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:06:42 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-S-104 TanksSFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-S-105 TanksSFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-S-106 TanksSFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-S: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
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432.7	
7370	
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18.1	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	4.95E-15	2281	0	0
14C	Carbon-14	4.25E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	2.35E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	4.76E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.18E-04	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	2.55E-04	8201		0
16887-00-6	Chloride	1.31E-04	8201		0
18540-29-9	Chromium	1.38E-02	8201	0	0
7440-48-4	Cobalt	1.23E-06	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.52E-04	8201		0
OHDEMAND	Hydroxide OH	8.09E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.46E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	2.58E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.06E-02	8201	0	0
14797-65-0	Nitrite	1.76E-03	8201	0	0
338-70-5	Oxalate	1.46E-02	8201		0
14265-44-2	Phosphate	7.32E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.87E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.14E-03	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

12.33
5730
74999
100.1
5.2713
805000
28.149
16.13
1530000
211097
1.01736
14.1
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703700000
23420000
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Report Generated on: 5/25/2005, 1:06:51 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37

241-S-107	TanksSFarm_Jan01_HTWOS.txt	case02.stp
241-S-108	TanksSFarm_Jan01_HTWOS.txt	case02.stp
241-S-109	TanksSFarm_Jan01_HTWOS.txt	case02.stp

Major Assumptions Used:
Dilution factor for WMA-S: 40
Compliance Monitoring Start Year :2001

Verified by John Middleton 6/15/05

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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	3.49E-15	2281	0	0
14C	Carbon-14	5.22E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	6.66E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.36E-07	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	3.83E-04	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	3.72E-05	8201		0
16887-00-6	Chloride	1.34E-04	8201		0
18540-29-9	Chromium	3.44E-03	8201	0	0
7440-48-4	Cobalt	1.80E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.03E-04	8201		0
OHDEMAND	Hydroxide OH	9.47E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.83E-04	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	3.86E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.58E-02	8201	0	0
14797-65-0	Nitrite	1.57E-03	8201	0	0
338-70-5	Oxalate	1.16E-02	8201		0
14265-44-2	Phosphate	3.67E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.54E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.64E-02	8201		0
7440-28-0	Thallium	0		71	5
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

12.33
5730
74999
100.1
5.2713
805000
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1530000
211097
1.01736
14.1
246000
2.7299
15700000
2.0619
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Report Generated on: 5/25/2005, 1:07:02 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37

241-S-110	TanksSFarm_Jan01_HTWOS.txt	case02.stp
241-S-111	TanksSFarm_Jan01_HTWOS.txt	case02.stp
241-S-112	TanksSFarm_Jan01_HTWOS.txt	case02.stp

Major Assumptions Used:
Dilution factor for WMA-S: 40
Compliance Monitoring Start Year :2001

Verified by John Middleton 6/15/05

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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	6.34E-15	2281	0	0
14C	Carbon-14	1.00E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.69E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	5.66E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	9.46E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	2.87E-04	8201		0
16887-00-6	Chloride	4.84E-04	8201		0
18540-29-9	Chromium	2.49E-02	8201	0	0
7440-48-4	Cobalt	1.27E-06	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.02E-04	8201		0
OHDEMAND	Hydroxide OH	9.35E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.15E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	3.07E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.83E-02	8201	0	0
14797-65-0	Nitrite	5.06E-03	8201	0	0
338-70-5	Oxalate	1.67E-02	8201		0
14265-44-2	Phosphate	2.29E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.16E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.17E-03	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:04:14 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-101 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-SX-102 TanksSXFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-SX-103 TanksSXFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-SX: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
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14050000000	
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703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	6.38E-15	2281	0	0
14C	Carbon-14	1.01E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.70E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	5.71E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	9.51E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	2.88E-04	8201		0
16887-00-6	Chloride	4.86E-04	8201		0
18540-29-9	Chromium	2.49E-02	8201	0	0
7440-48-4	Cobalt	1.27E-06	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.02E-04	8201		0
OHDEMAND	Hydroxide OH	9.44E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.17E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	3.08E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.85E-02	8201	0	0
14797-65-0	Nitrite	5.09E-03	8201	0	0
338-70-5	Oxalate	1.67E-02	8201		0
14265-44-2	Phosphate	2.30E-03	8201		0
7440-16-6	Rhodium	9.97E-11	8201		0
7440-18-8	Ruthenium	0		1	1
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.18E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.17E-03	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	1.53E-09	8201		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years

12.33
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Report Generated on: 5/31/2005, 3:29:26 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37

241-SX-101	TanksSXFarm_Jan01_HTWOS.txt	case02.stp
241-SX-102	TanksSXFarm_Jan01_HTWOS.txt	case02.stp
241-SX-103	TanksSXFarm_Jan01_HTWOS.txt	case02.stp
241-SX-302	TanksSXFarm_MUST.txt	case02.stp

Major Assumptions Used:

Dilution factor for WMA-SX: 40
Compliance Monitoring Start Year :2001

Verified by John Middleton 6/15/05

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CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	4.69E-15	2281	0	0
14C	Carbon-14	2.48E-01	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.59E+01	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	5.67E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.09E-04	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	6.81E-05	8201		0
16887-00-6	Chloride	4.18E-04	8201		0
18540-29-9	Chromium	1.13E-02	8201	0	0
7440-48-4	Cobalt	3.36E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	7.74E-05	8201		0
OHDEMAND	Hydroxide OH	9.40E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.08E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	7.04E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.03E-02	8201	0	0
14797-65-0	Nitrite	5.78E-03	8201	0	0
338-70-5	Oxalate	1.29E-02	8201		0
14265-44-2	Phosphate	5.31E-03	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	3.35E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.41E-03	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:04:24 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-104 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-SX-105 TanksSXFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-SX-106 TanksSXFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-SX: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
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89.997	
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21.769	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	5.05E-15	2281	0	0
14C	Carbon-14	4.10E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.80E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	1.29E-07	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	4.79E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	7.17E-05	8201		0
16887-00-6	Chloride	1.65E-04	8201		0
18540-29-9	Chromium	1.42E-03	8201	0	0
7440-48-4	Cobalt	1.64E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.90E-05	8201		0
OHDEMAND	Hydroxide OH	1.08E-01	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.30E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.28E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.95E-02	8201	0	0
14797-65-0	Nitrite	1.02E-03	8201	0	0
338-70-5	Oxalate	8.40E-04	8201		0
14265-44-2	Phosphate	2.78E-04	8201		0
7782-49-2	Selenium	0		5	5
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	2.40E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.31E-04	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:04:33 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-107 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-SX-108 TanksSXFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-SX-109 TanksSXFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-SX: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
14.35	
373507	
432.7	
7370	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	2.71E-15	2281	0	0
14C	Carbon-14	2.48E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.15E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	9.30E-09	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-69-9	Bismuth	4.93E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.04E-04	8201		0
18540-29-9	Chromium	4.62E-04	8201	0	0
16984-48-8	Fluoride	3.26E-06	8201		0
OHDEMAND	Hydroxide OH	1.14E-01	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.38E-05	8201		0
7439-92-1	Lead	0		5.2	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	5.69E-03	8201	0	0
14797-65-0	Nitrite	7.22E-04	8201	0	0
338-70-5	Oxalate	6.97E-04	8201		0
14265-44-2	Phosphate	3.15E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	4.15E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.45E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-61-1	Uranium	0		0.6	0.6
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:04:43 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-110 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-SX-111 TanksSXFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-SX-112 TanksSXFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-SX: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
1600	
5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
6563	
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373507	
432.7	
7370	
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28.499	
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CAS Number	Analyte Name	Concentration	Peak Year	Kd	Kd Bin
		pCi/L (Rad) or mg/L (Non-rad)			
3H	Tritium	4.47E-15	2281	0	0
14C	Carbon-14	1.74E-02	7831	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	0		0.1	0.1
79Se	Selenium-79	0		3.1	2
90Sr	Strontium-90 + D	0		16.1	5
93mNb	Niobium-93m	0		100	5
93Zr	Zirconium-93	0		600	5
99Tc	Technetium-99	1.25E+00	8191	0	0
106Ru	Ruthenium-106	0		1	1
113mCd	Cadmium-113m	0		1	1
126Sn	Tin-126	0		1	1
125Sb	Antimony-125	0		1	1
129I	Iodine-129	6.03E-08	12032	0.2	0.2
134Cs	Cesium-134	0		25	5
137Cs	Cesium-137 + Daughters	0		25	5
151Sm	Samarium-151	0		1	1
152Eu	Europium-152	0		1	1
154Eu	Europium-154	0		1	1
155Eu	Europium-155	0		1	1
226Ra	Radium-226 + D	0		1	1
228Ra	Radium-228 + D	0		1	1
227Ac	Actinium-227 + D	0		67	5
229Th	Thorium-229 + D	0		3	2
232Th	Thorium-232	0		3	2
231Pa	Protactinium-231	0		550	5
232U	Uranium-232	0		0.6	0.6
233U	Uranium-233	0		0.6	0.6
234U	Uranium-234	0		0.6	0.6
235U	Uranium-235 + D	0		0.6	0.6
236U	Uranium-236	0		0.6	0.6
238U	Uranium-238 + D	0		0.6	0.6
237Np	Neptunium-237 + D	0		2	2
238Pu	Plutonium-238	0		3	2
239Pu	Plutonium-239	0		3	2
240Pu	Plutonium-240	0		3	2
241Pu	Plutonium-241 + D	0		3	2
242Pu	Plutonium-242	0		3	2
241Am	Americium-241	0		3	2
243Am	Americium-243 + D	0		3	2
242Cm	Curium-242	0		3	2
243Cm	Curium-243	0		3	2
244Cm	Curium-244	0		3	2
7429-90-5	Aluminum	0		1	1
7440-36-0	Antimony	0		1	1
7440-38-2	Arsenic	0		39	5

7440-39-3	Barium	0		60	5
7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	1.01E-05	8201		0
7440-42-8	Boron	0		3	2
7440-43-9	Cadmium	0		1.26	1
7440-70-2	Calcium	0		4	5
7440-45-1	Cerium	4.28E-07	8201		0
16887-00-6	Chloride	7.41E-05	8201		0
18540-29-9	Chromium	3.86E-03	8201	0	0
7440-48-4	Cobalt	2.24E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	6.95E-07	8201		0
OHDEMAND	Hydroxide OH	1.08E-01	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.37E-06	8201		0
7439-92-1	Lead	0		5.2	5
7439-93-2	Lithium	0		300	5
7439-95-4	Magnesium	0		4.5	5
7439-96-5	Manganese	0		1	1
7439-97-6	Mercury	0		5.2	5
7440-00-8	Neodymium	4.66E-07	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.25E-03	8201	0	0
14797-65-0	Nitrite	3.47E-04	8201	0	0
338-70-5	Oxalate	6.08E-04	8201		0
14265-44-2	Phosphate	6.76E-05	8201		0
7440-16-6	Rhodium	5.58E-08	8201		0
7440-18-8	Ruthenium	0		1	1
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	8.78E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.26E-05	8201		0
7440-29-1	Thorium	0		1	1
7440-32-6	Titanium	0		1000	5
7440-61-1	Uranium	0		0.6	0.6
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	8.54E-07	8201		0
7440-66-6	Zinc	0		62	5
7440-67-7	Zirconium	0		500	5

Half-Life

Years	
	Report Generated on: 5/25/2005, 1:04:55 PM
	Report Generated by H0098416 (David J. Watson)
12.33	**Decision Management Tool Version 4.0.0.37**
5730	241-SX-113 TanksSXFarm_Jan01_HTWOS.txt case02.stp
74999	
100.1	241-SX-114 TanksSXFarm_Jan01_HTWOS.txt case02.stp
5.2713	
805000	241-SX-115 TanksSXFarm_Jan01_HTWOS.txt case02.stp
28.149	
16.13	
1530000	**Major Assumptions Used:**
211097	Dilution factor for WMA-SX: 40
1.01736	Compliance Monitoring Start Year :2001
14.1	
246000	
2.7299	
15700000	Verified by John Middleton 6/15/05
2.0619	
29.999	
89.997	
13.33	
8.5919	
4.68	
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5.7498	
21.769	
7340	
14050000000	
32759	
69.799	
159198	
245694	
703700000	
23420000	
4468000000	
2140000	
87.697	
24110	
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