

<u>Row Name</u>	<u>Sources Included</u>
UR-Vault Row	None
U-101 Row	241-U-101 241-U-102 241-U-103
U-104 Row	241-U-104 241-U-105 241-U-106
U-107 Row	241-U-107 241-U-108 241-U-109 241-U-201 241-U-202
U-110 Row	241-U-110 241-U-111 241-U-112 241-U-203 241-U-204
U-110 Row + MUSTs	241-U-110 241-U-111 241-U-112 241-U-203 241-U-204 244-U-DCR

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	2.10E-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	3.50E-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	4.35E-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	7.37E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	5.80E-05	8201		0
18540-29-9	Chromium	8.36E-04	8201	0	0
16984-48-8	Fluoride	5.23E-06	8201		0
OHDEMAND	Hydroxide OH	4.23E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.48E-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	2.90E-03	8201	0	0
14797-65-0	Nitrite	8.19E-04	8201	0	0
338-70-5	Oxalate	6.97E-04	8201		0
14265-44-2	Phosphate	7.34E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.95E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.11E-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

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Decision Management Tool Version 4.0.0.37

12.33 241-U-101 TanksUFarm_Jan01_HTWOS.txt case02.stp

5730

74999

100.1

5.2713

Major Assumptions Used:

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	2.19E-15	2281	0	0
14C	Carbon-14	9.55E-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	4.48E+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	2.28E-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	4.85E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.55E-04	8201		0
18540-29-9	Chromium	1.46E-03	8201	0	0
16984-48-8	Fluoride	1.07E-05	8201		0
OHDEMAND	Hydroxide OH	3.13E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	5.21E-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	1.00E-02	8201	0	0
14797-65-0	Nitrite	1.91E-03	8201	0	0
338-70-5	Oxalate	2.94E-03	8201		0
14265-44-2	Phosphate	1.56E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	1.52E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.21E-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

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Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-102 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.51E-15	2281	0	0
14C	Carbon-14	4.06E-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	1.61E+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	2.17E-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	3.55E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.26E-04	8201		0
18540-29-9	Chromium	5.13E-03	8201	0	0
16984-48-8	Fluoride	2.90E-04	8201		0
OHDEMAND	Hydroxide OH	1.99E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.69E-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	7.41E-03	8201	0	0
14797-65-0	Nitrite	1.70E-03	8201	0	0
338-70-5	Oxalate	6.36E-03	8201		0
14265-44-2	Phosphate	5.12E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	8.13E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.22E-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

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Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-103 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.11E-15	2281	0	0
14C	Carbon-14	7.64E-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	2.49E-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	3.09E-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	2.10E-05	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	3.57E-05	8201		0
18540-29-9	Chromium	6.26E-04	8201	0	0
16984-48-8	Fluoride	1.33E-06	8201		0
OHDEMAND	Hydroxide OH	3.92E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.20E-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	1.60E-03	8201	0	0
14797-65-0	Nitrite	4.27E-04	8201	0	0
338-70-5	Oxalate	1.98E-04	8201		0
14265-44-2	Phosphate	2.94E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	5.69E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.93E-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, 2:52:41 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-104 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	2.89E-15	2281	0
14C	Carbon-14	4.98E-02	7831	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	0		0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	1.19E+01	8191	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	1.92E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	1.77E-06	8201	0.00093
7440-36-0	Antimony	0		1

7440-38-2	Arsenic	0		39
7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	1.98E-05	8201	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	5.70E-05	8201	
16887-00-6	Chloride	1.40E-04	8201	
18540-29-9	Chromium	1.67E-03	8201	0
7440-48-4	Cobalt	2.20E-07	12032	0.1
7440-50-8	Copper	0		35
57-12-5	Cyanide	0		9.9
16984-48-8	Fluoride	5.87E-05	8201	
OHDEMAND	Hydroxide OH	2.65E-02	8201	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.40E-06	8201	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	6.07E-05	8201	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.00E-02	8201	0
14797-65-0	Nitrite	1.63E-03	8201	0
338-70-5	Oxalate	4.63E-03	8201	
14265-44-2	Phosphate	1.26E-03	8201	
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	8.36E-03	8201	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	1.11E-03	8201	
7440-29-1	Thorium	0		1
7440-32-6	Titanium	0		1000
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-66-6	Zinc	0		62
7440-67-7	Zirconium	0		500

Kd Bin Half-Life

Years	
0	12.33
0	5730
5	74999
5	100.1
0.1	5.2713
2	805000
5	28.149
5	16.13
5	1530000
0	211097
1	1.01736
1	14.1
1	246000
1	2.7299
0.2	15700000
5	2.0619
5	29.999
1	89.997
1	13.33
1	8.5919
1	4.68
1	1600
1	5.7498
5	21.769
2	7340
2	14050000000
5	32759
0.6	69.799
0.6	159198
0.6	245694
0.6	703700000
0.6	23420000
0.6	4468000000
2	2140000
2	87.697
2	24110
2	6563
2	14.35
2	373507
2	432.7
2	7370
2	0.44611
2	28.499
2	18.1
1	Infinity
0	Infinity
1	Infinity

Report Generated on: 5/25/2005, 2:52:49 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-U-105 TanksUFarm_Jan01_HTWOS.txt
Major Assumptions Used:
Dilution factor for WMA-U: 40
Compliance Monitoring Start Year :2001

5 Infinity
5 Infinity
5 Infinity
0 Infinity
2 Infinity
1 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0.1 Infinity
5 Infinity
5 Infinity
0 Infinity
0 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity
5 Infinity
1 Infinity
5 Infinity
5 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
5 Infinity
5 Infinity
2 Infinity
0 Infinity
5 Infinity
0 Infinity
1 Infinity
5 Infinity
0.6 Infinity
5 Infinity
5 Infinity
5 Infinity

case02.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.34E-15	2281	0	0
14C	Carbon-14	3.71E-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	3.59E+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	2.64E-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	1.54E-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	1.14E-04	8201		0
16887-00-6	Chloride	9.86E-05	8201		0
18540-29-9	Chromium	3.85E-03	8201	0	0
7440-48-4	Cobalt	2.56E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.85E-05	8201		0
OHDEMAND	Hydroxide OH	1.19E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.06E-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	1.72E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	7.08E-03	8201	0	0
14797-65-0	Nitrite	1.83E-03	8201	0	0
338-70-5	Oxalate	8.92E-03	8201		0
14265-44-2	Phosphate	1.77E-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	1.07E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	7.05E-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, 2:52:56 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-106 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	2.54E-15	2281	0	0
14C	Carbon-14	1.55E-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	8.10E+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	2.98E-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	5.60E-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	5.39E-05	8201		0
16887-00-6	Chloride	1.09E-04	8201		0
18540-29-9	Chromium	3.06E-03	8201	0	0
7440-48-4	Cobalt	2.33E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.59E-05	8201		0
OHDEMAND	Hydroxide OH	3.22E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.20E-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	5.39E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.18E-02	8201	0	0
14797-65-0	Nitrite	1.35E-03	8201	0	0
338-70-5	Oxalate	2.13E-03	8201		0
14265-44-2	Phosphate	2.72E-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	1.75E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	6.62E-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

Half-Life

Years

Report Generated on: 5/25/2005, 2:53:02 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33 241-U-107 TanksUFarm_Jan01_HTWOS.txt case02.stp

5730

74999

100.1

5.2713

Major Assumptions Used:

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	3.19E-15	2281	0	0
14C	Carbon-14	9.38E-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	3.76E+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	2.44E-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	1.07E-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	4.56E-05	8201		0
16887-00-6	Chloride	1.15E-04	8201		0
18540-29-9	Chromium	2.15E-03	8201	0	0
7440-48-4	Cobalt	2.20E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.84E-05	8201		0
OHDEMAND	Hydroxide OH	2.64E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.50E-10	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	4.56E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	9.24E-03	8201	0	0
14797-65-0	Nitrite	1.78E-03	8201	0	0
338-70-5	Oxalate	1.57E-03	8201		0
14265-44-2	Phosphate	8.22E-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	3.45E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.65E-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, 2:53:09 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-108 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	2.49E-15	2281	0	0
14C	Carbon-14	1.50E-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	8.24E+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	2.54E-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
7440-38-2	Arsenic	0		39	5
7440-39-3	Barium	0		60	5

7440-41-7	Beryllium	0		70	5
7440-69-9	Bismuth	2.98E-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	6.51E-05	8201		0
16887-00-6	Chloride	9.85E-05	8201		0
18540-29-9	Chromium	3.62E-03	8201	0	0
7440-48-4	Cobalt	2.81E-07	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	6.35E-05	8201		0
OHDEMAND	Hydroxide OH	2.96E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	9.79E-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
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	6.51E-05	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	9.09E-03	8201	0	0
14797-65-0	Nitrite	1.67E-03	8201	0	0
338-70-5	Oxalate	3.99E-03	8201		0
14265-44-2	Phosphate	7.62E-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	6.07E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.03E-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

Half-Life

Years

Report Generated on: 5/25/2005, 2:53:20 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33 241-U-109 TanksUFarm_Jan01_HTWOS.txt case02.stp

5730

74999

100.1

5.2713

Major Assumptions Used:

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	3.33E-17	2281	0
14C	Carbon-14	1.19E-03	7831	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	0		0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	5.54E-01	8191	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	6.83E-10	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	6.15E-04	8201	0.00093
7440-38-2	Arsenic	0		39

7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	1.86E-03	8201	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	9.83E-05	8201	
16887-00-6	Chloride	9.23E-06	8201	
18540-29-9	Chromium	2.24E-05	8201	0
7440-48-4	Cobalt	3.22E-07	12032	0.1
7440-50-8	Copper	0		35
16984-48-8	Fluoride	3.82E-05	8201	
OHDEMAND	Hydroxide OH	3.23E-02	8201	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	9.44E-06	8201	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	1.46E-04	8201	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	2.96E-04	8201	0
14797-65-0	Nitrite	8.53E-05	8201	0
338-70-5	Oxalate	2.57E-04	8201	
14265-44-2	Phosphate	7.71E-04	8201	
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	3.42E-03	8201	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	1.37E-05	8201	
7440-28-0	Thallium	0		71
7440-32-6	Titanium	0		1000
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-66-6	Zinc	0		62
7440-67-7	Zirconium	0		500

Kd Bin Half-Life

Years
0 12.33
0 5730
5 74999
5 100.1
0.1 5.2713
2 805000
5 28.149
5 16.13
5 1530000
0 211097
1 1.01736
1 14.1
1 246000
1 2.7299
0.2 15700000
5 2.0619
5 29.999
1 89.997
1 13.33
1 8.5919
1 4.68
1 1600
1 5.7498
5 21.769
2 7340
2 1405000000
5 32759
0.6 69.799
0.6 159198
0.6 245694
0.6 703700000
0.6 23420000
0.6 4468000000
2 2140000
2 87.697
2 24110
2 6563
2 14.35
2 373507
2 432.7
2 7370
2 0.44611
2 28.499
2 18.1
1 Infinity
0 Infinity
5 Infinity

Report Generated on: 5/25/2005, 2:53:28 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-U-110 TanksUFarm_Jan01_HTWOS.txt
Major Assumptions Used:
Dilution factor for WMA-U: 40
Compliance Monitoring Start Year :2001

5 Infinity
5 Infinity
0 Infinity
2 Infinity
1 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0.1 Infinity
5 Infinity
0 Infinity
0 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity
5 Infinity
1 Infinity
5 Infinity
5 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
5 Infinity
5 Infinity
2 Infinity
0 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity
0.6 Infinity
5 Infinity
5 Infinity
5 Infinity

case02.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.76E-15	2281	0	0
14C	Carbon-14	1.40E-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	7.62E+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	2.61E-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	1.41E-03	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	1.40E-04	8201		0
18540-29-9	Chromium	5.04E-03	8201	0	0
16984-48-8	Fluoride	4.09E-05	8201		0
OHDEMAND	Hydroxide OH	2.70E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	3.12E-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	8.96E-03	8201	0	0
14797-65-0	Nitrite	1.83E-03	8201	0	0
338-70-5	Oxalate	3.91E-03	8201		0
14265-44-2	Phosphate	2.98E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	1.81E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	8.32E-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, 2:53:37 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-111 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.03E-15	2281	0	0
14C	Carbon-14	1.70E-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	9.09E-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	5.29E-10	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	1.10E-03	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	4.93E-06	8201		0
18540-29-9	Chromium	8.03E-05	8201	0	0
16984-48-8	Fluoride	6.26E-05	8201		0
OHDEMAND	Hydroxide OH	3.72E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	4.97E-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	4.89E-04	8201	0	0
14797-65-0	Nitrite	2.56E-05	8201	0	0
338-70-5	Oxalate	7.16E-05	8201		0
14265-44-2	Phosphate	9.78E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	6.65E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.91E-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, 2:53:45 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33 241-U-112 TanksUFarm_Jan01_HTWOS.txt case02.stp

5730

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	5.13E-15	2281	0	0
14C	Carbon-14	2.55E-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	4.60E-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	2.64E-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	1.43E-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	3.00E-07	8201		0
16887-00-6	Chloride	9.67E-06	8201		0
18540-29-9	Chromium	4.43E-06	8201	0	0
7440-48-4	Cobalt	1.46E-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	1.10E-04	8201		0
OHDEMAND	Hydroxide OH	6.62E-03	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.50E-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
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	3.00E-07	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.97E-04	8201	0	0
14797-65-0	Nitrite	4.47E-05	8201	0	0
338-70-5	Oxalate	2.08E-06	8201		0
14265-44-2	Phosphate	9.02E-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	1.10E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	5.56E-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
7440-65-5	Yttrium	3.00E-08	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, 2:54:00 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33

5730

241-U-201

TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713

Major Assumptions Used:

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	4.70E-15	2281	0	0
14C	Carbon-14	1.85E-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	4.17E-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	2.42E-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	1.11E-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	2.62E-07	8201		0
16887-00-6	Chloride	6.54E-06	8201		0
18540-29-9	Chromium	3.62E-06	8201	0	0
7440-48-4	Cobalt	1.28E-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	1.20E-04	8201		0
OHDEMAND	Hydroxide OH	6.22E-03	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.31E-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
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	2.62E-07	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.51E-04	8201	0	0
14797-65-0	Nitrite	4.13E-05	8201	0	0
338-70-5	Oxalate	1.54E-06	8201		0
14265-44-2	Phosphate	7.81E-04	8201		0
7440-21-3	Silicon	0		30	5
7440-22-4	Silver	0		2.7	2
7440-23-5	Sodium	9.95E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.78E-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
7440-65-5	Yttrium	2.62E-08	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, 2:54:07 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33
5730 241-U-202 TanksUFarm_Jan01_HTWOS.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	4.11E-15	2281	0	0
14C	Carbon-14	1.62E-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	4.09E-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	2.11E-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	7.79E-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	1.17E-06	8201		0
16887-00-6	Chloride	5.86E-06	8201		0
18540-29-9	Chromium	3.93E-06	8201	0	0
7440-48-4	Cobalt	5.69E-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	2.28E-04	8201		0
OHDEMAND	Hydroxide OH	3.25E-03	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.46E-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
7439-98-7	Molybdenum	0		4	5
7440-00-8	Neodymium	1.17E-06	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	2.73E-04	8201	0	0
14797-65-0	Nitrite	4.12E-05	8201	0	0
338-70-5	Oxalate	1.29E-06	8201		0
14265-44-2	Phosphate	2.05E-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	1.98E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.77E-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
7440-62-2	Vanadium	0		50	5
7440-65-5	Yttrium	1.17E-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, 2:54:18 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33 241-U-203 TanksUFarm_Jan01_HTWOS.txt case02.stp

5730

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	4.68E-15	2281	0	0
14C	Carbon-14	1.84E-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	2.44E-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	2.41E-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	1.53E-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	2.61E-07	8201	0
16887-00-6	Chloride	3.78E-06	8201	0
18540-29-9	Chromium	2.19E-06	8201	0
7440-48-4	Cobalt	1.45E-09	12032	0.1
7440-50-8	Copper	0	35	5
57-12-5	Cyanide	0	9.9	5
16984-48-8	Fluoride	7.97E-07	8201	0
OHDEMAND	Hydroxide OH	6.68E-03	8201	0
7439-89-6	Iron	0	25	5
7439-91-0	Lanthanum	1.31E-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
7439-98-7	Molybdenum	0	4	5
7440-00-8	Neodymium	2.61E-07	8201	0
7440-02-0	Nickel	0	48	5
14797-55-8	Nitrate	2.03E-04	8201	0
14797-65-0	Nitrite	2.92E-05	8201	0
338-70-5	Oxalate	2.96E-06	8201	0
14265-44-2	Phosphate	2.84E-05	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	2.03E-04	8201	0
7440-24-6	Strontium	0	16.1	5
14808-79-8	Sulfate	3.52E-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
7440-65-5	Yttrium	2.61E-08	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, 2:54:28 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33 241-U-204 TanksUFarm_Jan01_HTWOS.txt case02.stp

5730

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	5.27E-15	2281	0	0
14C	Carbon-14	1.57E-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	6.13E+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	4.89E-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	1.58E-04	8201		0
7440-70-2	Calcium	0		4	5

16887-00-6	Chloride	3.39E-04	8201		0
18540-29-9	Chromium	7.42E-03	8201	0	0
16984-48-8	Fluoride	3.06E-04	8201		0
OHDEMAND	Hydroxide OH	9.34E-02	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.17E-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	2.03E-02	8201	0	0
14797-65-0	Nitrite	4.43E-03	8201	0	0
338-70-5	Oxalate	1.00E-02	8201		0
14265-44-2	Phosphate	7.41E-03	8201		0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	2.63E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	4.46E-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, 2:59:12 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33			
5730	241-U-101	TanksUFarm_Jan01_HTWOS.txt	case02.stp
74999			
100.1	241-U-102	TanksUFarm_Jan01_HTWOS.txt	case02.stp
5.2713			
805000	241-U-103	TanksUFarm_Jan01_HTWOS.txt	case02.stp
28.149			
16.13			

Major Assumptions Used:

211097 Dilution factor for WMA-U: 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

1405000000

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

Infinity

Infinity

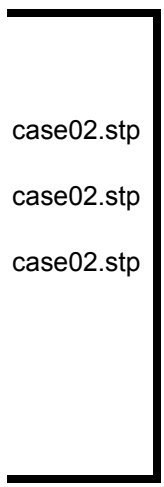
CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	5.34E-15	2281	0
14C	Carbon-14	9.45E-02	7831	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	0		0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	1.58E+01	8191	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.21E-07	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	1.77E-06	8201	0.00093
7440-36-0	Antimony	0		1

7440-38-2	Arsenic	0		39
7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	5.61E-05	8201	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	1.71E-04	8201	
16887-00-6	Chloride	2.75E-04	8201	
18540-29-9	Chromium	6.15E-03	8201	0
7440-48-4	Cobalt	4.76E-07	12032	0.1
7440-50-8	Copper	0		35
57-12-5	Cyanide	0		9.9
16984-48-8	Fluoride	7.86E-05	8201	
OHDEMAND	Hydroxide OH	7.77E-02	8201	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	6.62E-05	8201	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	2.33E-04	8201	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.87E-02	8201	0
14797-65-0	Nitrite	3.89E-03	8201	0
338-70-5	Oxalate	1.38E-02	8201	
14265-44-2	Phosphate	3.32E-03	8201	
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.47E-02	8201	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	1.83E-03	8201	
7440-29-1	Thorium	0		1
7440-32-6	Titanium	0		1000
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-66-6	Zinc	0		62
7440-67-7	Zirconium	0		500

Kd Bin Half-Life

Kd Bin	Half-Life	Years	Report Generated on: 5/25/2005, 2:59:24 PM
			Report Generated by H0098416 (David J. Watson)
			Decision Management Tool Version 4.0.0.37
0	12.33		
0	5730	241-U-104	TanksUFarm_Jan01_HTWOS.txt
5	74999		
5	100.1	241-U-105	TanksUFarm_Jan01_HTWOS.txt
0.1	5.2713		
2	805000	241-U-106	TanksUFarm_Jan01_HTWOS.txt
5	28.149		
5	16.13		
5	1530000		Major Assumptions Used:
0	211097		Dilution factor for WMA-U: 40
1	1.01736		Compliance Monitoring Start Year :2001
1	14.1		
1	246000		
1	2.7299		
0.2	15700000		Verified by John Middleton 6/15/05
5	2.0619		
5	29.999		
1	89.997		
1	13.33		
1	8.5919		
1	4.68		
1	1600		
1	5.7498		
5	21.769		
2	7340		
2	1405000000		
5	32759		
0.6	69.799		
0.6	159198		
0.6	245694		
0.6	703700000		
0.6	23420000		
0.6	4468000000		
2	2140000		
2	87.697		
2	24110		
2	6563		
2	14.35		
2	373507		
2	432.7		
2	7370		
2	0.44611		
2	28.499		
2	18.1		
1	Infinity		
0	Infinity		
1	Infinity		

5 Infinity
5 Infinity
5 Infinity
0 Infinity
2 Infinity
1 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0.1 Infinity
5 Infinity
5 Infinity
0 Infinity
0 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity
5 Infinity
1 Infinity
5 Infinity
5 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
5 Infinity
5 Infinity
2 Infinity
0 Infinity
5 Infinity
0 Infinity
1 Infinity
5 Infinity
0.6 Infinity
5 Infinity
5 Infinity
5 Infinity



case02.stp

case02.stp

case02.stp

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	1.81E-14	2281	0	0
14C	Carbon-14	4.03E-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	2.01E+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	7.96E-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	1.22E-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	1.65E-04	8201		0
16887-00-6	Chloride	3.38E-04	8201		0
18540-29-9	Chromium	8.84E-03	8201	0	0
7440-48-4	Cobalt	7.37E-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	3.37E-04	8201		0
OHDEMAND	Hydroxide OH	1.01E-01	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.46E-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	1.65E-04	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.07E-02	8201	0	0
14797-65-0	Nitrite	4.88E-03	8201	0	0
338-70-5	Oxalate	7.70E-03	8201		0
14265-44-2	Phosphate	1.28E-02	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	6.01E-02	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.57E-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
7440-65-5	Yttrium	5.62E-08	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, 2:59:42 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33			
5730	241-U-107	TanksUFarm_Jan01_HTWOS.txt	case02.stp
74999			
100.1	241-U-108	TanksUFarm_Jan01_HTWOS.txt	case02.stp
5.2713			
805000	241-U-109	TanksUFarm_Jan01_HTWOS.txt	case02.stp
28.149			
16.13	241-U-201	TanksUFarm_Jan01_HTWOS.txt	case02.stp
1530000			
211097	241-U-202	TanksUFarm_Jan01_HTWOS.txt	case02.stp
1.01736			
14.1			

246000 **Major Assumptions Used:**

2.7299 Dilution factor for WMA-U: 40

15700000 Compliance Monitoring Start Year :2001

2.0619

29.999

89.997

13.33 Verified by John Middleton 6/15/05

8.5919

4.68

1600

5.7498

21.769

7340

1405000000

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

Infinity

Infinity

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.16E-14	2281	0
14C	Carbon-14	1.46E-01	7831	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	0		0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	7.69E+01	8191	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.73E-08	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	6.15E-04	8201	0.00093
7440-36-0	Antimony	0		1

7440-38-2	Arsenic	0		39
7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	4.39E-03	8201	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	9.97E-05	8201	
16887-00-6	Chloride	1.64E-04	8201	
18540-29-9	Chromium	5.15E-03	8201	0
7440-48-4	Cobalt	3.29E-07	12032	0.1
7440-50-8	Copper	0		35
57-12-5	Cyanide	0		9.9
16984-48-8	Fluoride	3.70E-04	8201	
OHDEMAND	Hydroxide OH	1.06E-01	8201	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.79E-05	8201	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	1.48E-04	8201	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.02E-02	8201	0
14797-65-0	Nitrite	2.01E-03	8201	0
338-70-5	Oxalate	4.25E-03	8201	
14265-44-2	Phosphate	6.81E-03	8201	
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.44E-02	8201	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	8.83E-04	8201	
7440-28-0	Thallium	0		71
7440-29-1	Thorium	0		1
7440-32-6	Titanium	0		1000
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-65-5	Yttrium	1.43E-07	8201	
7440-66-6	Zinc	0		62
7440-67-7	Zirconium	0		500

Kd Bin Half-Life

Years	Half-Life	Kd Bin	Notes
			Report Generated on: 5/25/2005, 2:59:56 PM
			Report Generated by H0098416 (David J. Watson)
			Decision Management Tool Version 4.0.0.37
0	12.33		
0	5730	241-U-110	TanksUFarm_Jan01_HTWOS.txt
5	74999		
5	100.1	241-U-111	TanksUFarm_Jan01_HTWOS.txt
0.1	5.2713		
2	805000	241-U-112	TanksUFarm_Jan01_HTWOS.txt
5	28.149		
5	16.13	241-U-203	TanksUFarm_Jan01_HTWOS.txt
5	1530000		
0	211097	241-U-204	TanksUFarm_Jan01_HTWOS.txt
1	1.01736		
1	14.1		
1	246000		Major Assumptions Used:
1	2.7299		Dilution factor for WMA-U: 40
0.2	15700000		Compliance Monitoring Start Year :2001
5	2.0619		
5	29.999		
1	89.997		
1	13.33		Verified by John Middleton 6/15/05
1	8.5919		
1	4.68		
1	1600		
1	5.7498		
5	21.769		
2	7340		
2	1405000000		
5	32759		
0.6	69.799		
0.6	159198		
0.6	245694		
0.6	703700000		
0.6	23420000		
0.6	4468000000		
2	2140000		
2	87.697		
2	24110		
2	6563		
2	14.35		
2	373507		
2	432.7		
2	7370		
2	0.44611		
2	28.499		
2	18.1		
1	Infinity		
0	Infinity		
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CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd
3H	Tritium	1.17E-14	2281	0
14C	Carbon-14	1.48E-01	7831	0
59Ni	Nickel-59	0		48
63Ni	Nickel-63	0		48
60Co	Cobalt-60	0		0.1
79Se	Selenium-79	0		3.1
90Sr	Strontium-90 + D	0		16.1
93mNb	Niobium-93m	0		100
93Zr	Zirconium-93	0		600
99Tc	Technetium-99	7.79E+01	8191	0
106Ru	Ruthenium-106	0		1
113mCd	Cadmium-113m	0		1
126Sn	Tin-126	0		1
125Sb	Antimony-125	0		1
129I	Iodine-129	2.83E-08	12032	0.2
134Cs	Cesium-134	0		25
137Cs	Cesium-137 + Daughters	0		25
151Sm	Samarium-151	0		1
152Eu	Europium-152	0		1
154Eu	Europium-154	0		1
155Eu	Europium-155	0		1
226Ra	Radium-226 + D	0		1
228Ra	Radium-228 + D	0		1
227Ac	Actinium-227 + D	0		67
229Th	Thorium-229 + D	0		3
232Th	Thorium-232	0		3
231Pa	Protactinium-231	0		550
232U	Uranium-232	0		0.6
233U	Uranium-233	0		0.6
234U	Uranium-234	0		0.6
235U	Uranium-235 + D	0		0.6
236U	Uranium-236	0		0.6
238U	Uranium-238 + D	0		0.6
237Np	Neptunium-237 + D	0		2
238Pu	Plutonium-238	0		3
239Pu	Plutonium-239	0		3
240Pu	Plutonium-240	0		3
241Pu	Plutonium-241 + D	0		3
242Pu	Plutonium-242	0		3
241Am	Americium-241	0		3
243Am	Americium-243 + D	0		3
242Cm	Curium-242	0		3
243Cm	Curium-243	0		3
244Cm	Curium-244	0		3
7429-90-5	Aluminum	0		1
7664-41-7	Ammonia -- (a)	6.17E-04	8201	0.00093
7440-36-0	Antimony	0		1

7440-38-2	Arsenic	0		39
7440-39-3	Barium	0		60
7440-41-7	Beryllium	0		70
7440-69-9	Bismuth	4.40E-03	8201	
7440-42-8	Boron	0		3
7440-43-9	Cadmium	0		1.26
7440-70-2	Calcium	0		4
7440-45-1	Cerium	1.01E-04	8201	
16887-00-6	Chloride	1.67E-04	8201	
18540-29-9	Chromium	5.22E-03	8201	0
7440-48-4	Cobalt	3.33E-07	12032	0.1
7440-50-8	Copper	0		35
57-12-5	Cyanide	0		9.9
16984-48-8	Fluoride	3.73E-04	8201	
OHDEMAND	Hydroxide OH	1.07E-01	8201	
7439-89-6	Iron	0		25
7439-91-0	Lanthanum	1.82E-05	8201	
7439-92-1	Lead	0		5.2
7439-93-2	Lithium	0		300
7439-95-4	Magnesium	0		4.5
7439-96-5	Manganese	0		1
7439-97-6	Mercury	0		5.2
7439-98-7	Molybdenum	0		4
7440-00-8	Neodymium	1.49E-04	8201	
7440-02-0	Nickel	0		48
14797-55-8	Nitrate	1.04E-02	8201	0
14797-65-0	Nitrite	2.05E-03	8201	0
338-70-5	Oxalate	4.34E-03	8201	
14265-44-2	Phosphate	6.89E-03	8201	
7782-49-2	Selenium	0		5
7440-21-3	Silicon	0		30
7440-22-4	Silver	0		2.7
7440-23-5	Sodium	2.47E-02	8201	
7440-24-6	Strontium	0		16.1
14808-79-8	Sulfate	9.05E-04	8201	
7440-28-0	Thallium	0		71
7440-29-1	Thorium	0		1
7440-32-6	Titanium	0		1000
7440-61-1	Uranium	0		0.6
7440-62-2	Vanadium	0		50
7440-65-5	Yttrium	1.44E-07	8201	
7440-66-6	Zinc	0		62
7440-67-7	Zirconium	0		500

Kd Bin Half-Life

Years	Kd Bin	Half-Life	Notes
			Report Generated on: 5/31/2005, 3:53:47 PM
			Report Generated by H0098416 (David J. Watson)
			Decision Management Tool Version 4.0.0.37
0	12.33		
0	5730	241-U-110	TanksUFarm_Jan01_HTWOS.txt
5	74999		
5	100.1	241-U-111	TanksUFarm_Jan01_HTWOS.txt
0.1	5.2713		
2	805000	241-U-112	TanksUFarm_Jan01_HTWOS.txt
5	28.149		
5	16.13	241-U-203	TanksUFarm_Jan01_HTWOS.txt
5	1530000		
0	211097	241-U-204	TanksUFarm_Jan01_HTWOS.txt
1	1.01736		
1	14.1	244-U-DCR	TanksUFarm_MUST.txt
1	246000		
1	2.7299		
0.2	15700000		Major Assumptions Used:
5	2.0619		Dilution factor for WMA-U: 40
5	29.999		Compliance Monitoring Start Year :2001
1	89.997		
1	13.33		
1	8.5919		
1	4.68		Verified by John Middleton 6/15/05
1	1600		
1	5.7498		
5	21.769		
2	7340		
2	14050000000		
5	32759		
0.6	69.799		
0.6	159198		
0.6	245694		
0.6	703700000		
0.6	23420000		
0.6	4468000000		
2	2140000		
2	87.697		
2	24110		
2	6563		
2	14.35		
2	373507		
2	432.7		
2	7370		
2	0.44611		
2	28.499		
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