

<b>Row Name</b>	<b>Sources Included</b>
TXR Vault Row	244-TXR Vault TX-302A Catch Tank
TX-101 Row	241-TX-302XB Catch Tank
TX-105 Row	None
TX-109 Row	None
TX-113 Row	None
TX-116 Row	None
TY-101 Row	241-TY-302B Catch Tank
TY-103 Row	None
TY-105 Row	241-TY-302A Catch Tank

CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	2.40E-16	2281	0	0
14C	Carbon-14	8.12E-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	3.78E+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	2.27E-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	1.34E-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	2.67E-07	8201		0
16887-00-6	Chloride	1.14E-05	8201		0
18540-29-9	Chromium	7.44E-05	8201	0	0
7440-48-4	Cobalt	1.16E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	1.75E-05	8201		0
OHDEMAND	Hydroxide OH	3.30E-03	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	6.85E-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	2.67E-07	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.30E-03	8201	0	0
14797-65-0	Nitrite	1.09E-04	8201	0	0
338-70-5	Oxalate	2.20E-04	8201		0
14265-44-2	Phosphate	5.36E-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	1.75E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.68E-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, 11:23:18 AM**  
**Report Generated by H0098416 ( David J. Watson )**  
**Decision Management Tool Version 4.0.0.37**  
244-TXR-Vault TanksTX-TYFarm\_MUST.txt case02.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-TX-TY: 40  
Compliance Monitoring Start Year :2001

- 12.33
- 5730
- 74999
- 100.1
- 5.2713
- 805000
- 28.149
- 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



<b>CAS Number</b>	<b>Analyte Name</b>	<b>Concentration</b> pCi/L (Rad) or mg/L (Non-rad)	<b>Peak Year</b>	<b>Kd</b>	<b>Kd Bin</b>
3H	Tritium	5.57E-17	2281	0	0
14C	Carbon-14	1.89E-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	8.79E-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	5.28E-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
7440-36-0	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	3.11E-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	6.22E-08	8201		0
16887-00-6	Chloride	2.66E-06	8201		0
18540-29-9	Chromium	1.73E-05	8201	0	0
7440-48-4	Cobalt	2.70E-10	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	4.07E-06	8201		0
OHDEMAND	Hydroxide OH	7.68E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.59E-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	6.22E-08	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.03E-04	8201	0	0
14797-65-0	Nitrite	2.53E-05	8201	0	0
338-70-5	Oxalate	5.13E-05	8201		0
14265-44-2	Phosphate	1.25E-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	4.08E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.90E-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, 11:23:36 AM

Report Generated by H0098416 ( David J. Watson )

12.33 Decision Management Tool Version 4.0.0.37

5730 241-TX-302A TanksTX-TYFarm\_MUST.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-TX-TY: 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	5.57E-17	2281	0	0
14C	Carbon-14	1.89E-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	8.79E-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	5.28E-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
7440-36-0	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	3.11E-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	6.22E-08	8201		0
16887-00-6	Chloride	2.66E-06	8201		0
18540-29-9	Chromium	1.73E-05	8201	0	0
7440-48-4	Cobalt	2.70E-10	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	4.07E-06	8201		0
OHDEMAND	Hydroxide OH	7.68E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.59E-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	6.22E-08	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.03E-04	8201	0	0
14797-65-0	Nitrite	2.53E-05	8201	0	0
338-70-5	Oxalate	5.13E-05	8201		0
14265-44-2	Phosphate	1.25E-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	4.08E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.90E-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, 11:23:48 AM

Report Generated by H0098416 ( David J. Watson )

12.33 Decision Management Tool Version 4.0.0.37

5730 241-TX-302XB TanksTX-TYFarm\_MUST.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-TX-TY: 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	0		0	0
14C	Carbon-14	8.59E-04	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	2.82E-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	6.77E-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	6.82E-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	8.44E-09	8201		0
16887-00-6	Chloride	6.83E-07	8201		0
18540-29-9	Chromium	2.89E-06	8201	0	0
7440-48-4	Cobalt	4.71E-11	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	1.79E-06	8201		0
OHDEMAND	Hydroxide OH	4.28E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.06E-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	9.61E-09	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.70E-04	8201	0	0
14797-65-0	Nitrite	7.75E-06	8201	0	0
338-70-5	Oxalate	2.68E-06	8201		0
14265-44-2	Phosphate	3.35E-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	2.05E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.27E-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
7440-65-5	Yttrium	1.14E-09	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, 11:24:05 AM**  
**Report Generated by H0098416 ( David J. Watson )**  
**Decision Management Tool Version 4.0.0.37**  
241-TY-302A TanksTX-TYFarm\_MUST.txt case02.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-TX-TY: 40  
Compliance Monitoring Start Year :2001

12.33  
5730  
74999  
100.1  
5.2713  
805000  
28.149  
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	0		0	0
14C	Carbon-14	6.87E-04	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	2.26E-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	5.41E-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	5.46E-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	6.75E-09	8201		0
16887-00-6	Chloride	5.46E-07	8201		0
18540-29-9	Chromium	2.31E-06	8201	0	0
7440-48-4	Cobalt	3.77E-11	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	1.43E-06	8201		0
OHDEMAND	Hydroxide OH	3.42E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.65E-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	7.69E-09	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.36E-04	8201	0	0
14797-65-0	Nitrite	6.20E-06	8201	0	0
338-70-5	Oxalate	2.14E-06	8201		0
14265-44-2	Phosphate	2.68E-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	1.64E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.02E-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
7440-65-5	Yttrium	9.15E-10	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, 11:24:14 AM

Report Generated by H0098416 ( David J. Watson )

Decision Management Tool Version 4.0.0.37

12.33  
5730 241-TY-302B TanksTX-TYFarm\_MUST.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-TX-TY: 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	5.49E-02	2058	0	0
14C	Carbon-14	1.22E-01	2094	0	0
59Ni	Nickel-59	0		48	5
63Ni	Nickel-63	0		48	5
60Co	Cobalt-60	2.80E-12	2069	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
99Tc	Technetium-99	2.17E+00	2094	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	5.40E-06	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	2.78E-04	2094		0
18540-29-9	Chromium	2.36E-04	2094	0	0

7439-89-6	Iron	0		25	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	1.14E-02	2094	0	0
14797-65-0	Nitrite	2.90E-03	2094	0	0
7440-21-3	Silicon	0		30	5
7440-23-5	Sodium	1.05E-02	2094		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.52E-04	2094		0
7440-61-1	Uranium	0		0.6	0.6

**Half-Life**

Years

**Report Generated on: 5/25/2005, 11:25:28 AM**  
**Report Generated by H0098416 ( David J. Watson )**  
**Decision Management Tool Version 4.0.0.37**  
Pipe System Pipe System\_TX.txt case04.stp  
**Major Assumptions Used:**  
Dilution factor for WMA-TX-TY: 40  
Compliance Monitoring Start Year :2001

12.33  
5730  
74999  
100.1  
5.2713  
805000  
28.149  
16.13

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  
Infinity





CAS Number	Analyte Name	Concentration pCi/L (Rad) or mg/L (Non-rad)	Peak Year	Kd	Kd Bin
3H	Tritium	2.95E-16	2281	0	0
14C	Carbon-14	1.00E-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	4.66E+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	2.80E-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	1.65E-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	3.30E-07	8201		0
16887-00-6	Chloride	1.41E-05	8201		0
18540-29-9	Chromium	9.17E-05	8201	0	0
7440-48-4	Cobalt	1.43E-09	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	2.16E-05	8201		0
OHDEMAND	Hydroxide OH	4.07E-03	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	8.44E-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	3.30E-07	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.61E-03	8201	0	0
14797-65-0	Nitrite	1.34E-04	8201	0	0
338-70-5	Oxalate	2.72E-04	8201		0
14265-44-2	Phosphate	6.61E-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	2.16E-03	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	2.07E-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, 11:26:21 AM**  
**Report Generated by H0098416 ( David J. Watson )**  
**Decision Management Tool Version 4.0.0.37**

12.33  
5730 241-TX-302A TanksTX-TYFarm\_MUST.txt case02.stp  
74999  
100.1 244-TXR-Vault TanksTX-TYFarm\_MUST.txt case02.stp

5.2713  
805000  
28.149 **Major Assumptions Used:**  
16.13 Dilution factor for WMA-TX-TY: 40  
1530000 Compliance Monitoring Start Year :2001

211097  
1.01736  
14.1  
246000 Verified by John Middleton 6/15/05

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	5.57E-17	2281	0	0
14C	Carbon-14	1.89E-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	8.79E-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	5.28E-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
7440-36-0	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	3.11E-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	6.22E-08	8201		0
16887-00-6	Chloride	2.66E-06	8201		0
18540-29-9	Chromium	1.73E-05	8201	0	0
7440-48-4	Cobalt	2.70E-10	12032	0.1	0.1
7440-50-8	Copper	0		35	5
16984-48-8	Fluoride	4.07E-06	8201		0
OHDEMAND	Hydroxide OH	7.68E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.59E-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	6.22E-08	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	3.03E-04	8201	0	0
14797-65-0	Nitrite	2.53E-05	8201	0	0
338-70-5	Oxalate	5.13E-05	8201		0
14265-44-2	Phosphate	1.25E-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	4.08E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	3.90E-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, 11:26:49 AM

Report Generated by H0098416 ( David J. Watson )

12.33 Decision Management Tool Version 4.0.0.37

5730 241-TX-302XB TanksTX-TYFarm\_MUST.txt case02.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-TX-TY: 40

28.149 Compliance Monitoring Start Year :2001

16.13

1530000

211097

1.01736 Verified by John Middleton 6/15/05

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	0		0	0
14C	Carbon-14	6.87E-04	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	2.26E-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	5.41E-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	5.46E-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	6.75E-09	8201		0
16887-00-6	Chloride	5.46E-07	8201		0
18540-29-9	Chromium	2.31E-06	8201	0	0
7440-48-4	Cobalt	3.77E-11	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	1.43E-06	8201		0
OHDEMAND	Hydroxide OH	3.42E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	1.65E-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	7.69E-09	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.36E-04	8201	0	0
14797-65-0	Nitrite	6.20E-06	8201	0	0
338-70-5	Oxalate	2.14E-06	8201		0
14265-44-2	Phosphate	2.68E-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	1.64E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.02E-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
7440-65-5	Yttrium	9.15E-10	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, 11:27:16 AM**  
**Report Generated by H0098416 ( David J. Watson )**  
**Decision Management Tool Version 4.0.0.37**  
241-TY-302B TanksTX-TYFarm\_MUST.txt case02.stp

**Major Assumptions Used:**  
Dilution factor for WMA-TX-TY: 40  
Compliance Monitoring Start Year :2001

12.33  
5730  
74999  
100.1  
5.2713  
805000  
28.149  
16.13

1530000

211097

1.01736 Verified by John Middleton 6/15/05

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	0		0	0
14C	Carbon-14	8.59E-04	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	2.82E-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	6.77E-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	6.82E-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	8.44E-09	8201		0
16887-00-6	Chloride	6.83E-07	8201		0
18540-29-9	Chromium	2.89E-06	8201	0	0
7440-48-4	Cobalt	4.71E-11	12032	0.1	0.1
7440-50-8	Copper	0		35	5
57-12-5	Cyanide	0		9.9	5
16984-48-8	Fluoride	1.79E-06	8201		0
OHDEMAND	Hydroxide OH	4.28E-04	8201		0
7439-89-6	Iron	0		25	5
7439-91-0	Lanthanum	2.06E-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	9.61E-09	8201		0
7440-02-0	Nickel	0		48	5
14797-55-8	Nitrate	1.70E-04	8201	0	0
14797-65-0	Nitrite	7.75E-06	8201	0	0
338-70-5	Oxalate	2.68E-06	8201		0
14265-44-2	Phosphate	3.35E-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	2.05E-04	8201		0
7440-24-6	Strontium	0		16.1	5
14808-79-8	Sulfate	1.27E-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
7440-65-5	Yttrium	1.14E-09	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, 11:27:36 AM**  
**Report Generated by H0098416 ( David J. Watson )**  
**Decision Management Tool Version 4.0.0.37**  
241-TY-302A TanksTX-TYFarm\_MUST.txt case02.stp

**Major Assumptions Used:**  
Dilution factor for WMA-TX-TY: 40  
Compliance Monitoring Start Year :2001

12.33  
5730  
74999  
100.1  
5.2713  
805000  
28.149  
16.13

1530000

211097

1.01736 Verified by John Middleton 6/15/05

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



