

NUMBER 21 NAME=Residence 6 X= -4.7KM, Y= 1.9KM, Z= 22.0M, DIST= 5.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.63E+00	3.52E-01	3.06E-01	5.63E-01	4.03E-01	5.54E+01
CHILD	TOTALS	3.62E+00	3.87E-01	3.18E-01	4.32E-01	3.61E-01	5.54E+01
TEENAGE	TOTALS	3.63E+00	4.74E-01	3.26E-01	3.75E-01	3.44E-01	5.54E+01
ADULT	TOTALS	3.63E+00	4.70E-01	3.36E-01	3.77E-01	3.49E-01	5.54E+01

NUMBER 22 NAME=Residence 7 X= 2.4KM, Y= 3.6KM, Z= 76.0M, DIST= 4.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	5.17E+00	4.73E-01	4.22E-01	7.09E-01	5.30E-01	7.94E+01
CHILD	TOTALS	5.17E+00	5.12E-01	4.35E-01	5.62E-01	4.83E-01	7.94E+01
TEENAGE	TOTALS	5.17E+00	6.09E-01	4.44E-01	4.98E-01	4.64E-01	7.94E+01
ADULT	TOTALS	5.17E+00	6.05E-01	4.55E-01	5.00E-01	4.69E-01	7.94E+01

METSET:

DATA: MARST315.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 23 NAME=Residence 8 X= 4.7KM, Y= -4.4KM, Z= -50.0M, DIST= 6.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.94E+00	1.12E-01	9.81E-02	1.77E-01	1.28E-01	3.07E+01
CHILD	TOTALS	1.94E+00	1.23E-01	1.02E-01	1.37E-01	1.15E-01	3.07E+01
TEENAGE	TOTALS	1.94E+00	1.49E-01	1.04E-01	1.19E-01	1.10E-01	3.07E+01
ADULT	TOTALS	1.94E+00	1.48E-01	1.07E-01	1.20E-01	1.11E-01	3.07E+01

NUMBER 24 NAME=Unoccupied 1 X= -0.9KM, Y= 1.9KM, Z= 15.7M, DIST= 2.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.47E+01	6.43E-01	6.16E-01	7.69E-01	6.74E-01	2.36E+02
CHILD	TOTALS	1.47E+01	6.64E-01	6.23E-01	6.91E-01	6.49E-01	2.36E+02
TEENAGE	TOTALS	1.47E+01	7.16E-01	6.28E-01	6.57E-01	6.39E-01	2.36E+02
ADULT	TOTALS	1.47E+01	7.13E-01	6.34E-01	6.58E-01	6.42E-01	2.36E+02

NUMBER 25 NAME=Unoccupied 2 X= 2.0KM, Y= 2.8KM, Z= 69.0M, DIST= 3.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	6.97E+00	5.29E-01	4.87E-01	7.27E-01	5.77E-01	1.08E+02
CHILD	TOTALS	6.96E+00	5.63E-01	4.98E-01	6.04E-01	5.38E-01	1.08E+02
TEENAGE	TOTALS	6.97E+00	6.44E-01	5.05E-01	5.51E-01	5.22E-01	1.08E+02
ADULT	TOTALS	6.97E+00	6.40E-01	5.14E-01	5.53E-01	5.27E-01	1.08E+02

NUMBER 26 NAME=N Boundary #1 X= -1.3KM, Y= 5.1KM, Z= 35.0M, DIST= 5.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.47E+00	4.46E-01	3.86E-01	7.27E-01	5.14E-01	6.83E+01
CHILD	TOTALS	4.47E+00	4.93E-01	4.01E-01	5.52E-01	4.58E-01	6.83E+01
TEENAGE	TOTALS	4.47E+00	6.08E-01	4.12E-01	4.76E-01	4.36E-01	6.83E+01
ADULT	TOTALS	4.47E+00	6.03E-01	4.25E-01	4.79E-01	4.42E-01	6.83E+01

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 27 NAME=East Boundary X= 1.7KM, Y= 0.0KM, Z= -2.6M, DIST= 1.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.14E+01	3.11E-01	3.02E-01	3.55E-01	3.22E-01	1.85E+02
CHILD	TOTALS	1.14E+01	3.19E-01	3.04E-01	3.28E-01	3.13E-01	1.85E+02
TEENAGE	TOTALS	1.14E+01	3.37E-01	3.06E-01	3.16E-01	3.10E-01	1.85E+02
ADULT	TOTALS	1.14E+01	3.36E-01	3.08E-01	3.16E-01	3.11E-01	1.85E+02

NUMBER 28 NAME=South Boundary X= 0.0KM, Y= -0.6KM, Z= 0.5M, DIST= 0.6KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	7.13E+01	2.38E-01	2.37E-01	2.43E-01	2.39E-01	1.18E+03
CHILD	TOTALS	7.13E+01	2.39E-01	2.38E-01	2.40E-01	2.39E-01	1.18E+03
TEENAGE	TOTALS	7.13E+01	2.41E-01	2.38E-01	2.39E-01	2.38E-01	1.18E+03
ADULT	TOTALS	7.13E+01	2.41E-01	2.38E-01	2.39E-01	2.38E-01	1.18E+03

METSET:

DATA: MARST315.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 29 NAME=West Boundary X= -0.7KM, Y= 0.0KM, Z= 12.2M, DIST= 0.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	5.11E+01	4.47E-01	4.44E-01	4.62E-01	4.51E-01	8.46E+02
CHILD	TOTALS	5.11E+01	4.50E-01	4.44E-01	4.53E-01	4.48E-01	8.46E+02
TEENAGE	TOTALS	5.11E+01	4.56E-01	4.45E-01	4.49E-01	4.46E-01	8.46E+02
ADULT	TOTALS	5.11E+01	4.56E-01	4.46E-01	4.49E-01	4.47E-01	8.46E+02

NUMBER 30 NAME=Minatare X= -22.4KM, Y= -75.6KM, Z= -41.4M, DIST= 78.8KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.49E-01	6.82E-02	2.29E-02	2.82E-01	1.20E-01	1.94E+00
CHILD	TOTALS	1.45E-01	1.04E-01	3.42E-02	1.49E-01	7.74E-02	1.94E+00
TEENAGE	TOTALS	1.48E-01	1.92E-01	4.19E-02	9.12E-02	6.07E-02	1.94E+00
ADULT	TOTALS	1.50E-01	1.88E-01	5.22E-02	9.32E-02	6.51E-02	1.94E+00

NUMBER 31 NAME=N Boundary #2 X= -0.5KM, Y= 3.3KM, Z= 20.0M, DIST= 3.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.28E+00	6.05E-01	5.58E-01	8.24E-01	6.58E-01	1.29E+02
CHILD	TOTALS	8.27E+00	6.42E-01	5.70E-01	6.88E-01	6.14E-01	1.29E+02
TEENAGE	TOTALS	8.28E+00	7.32E-01	5.78E-01	6.29E-01	5.97E-01	1.29E+02
ADULT	TOTALS	8.28E+00	7.27E-01	5.88E-01	6.31E-01	6.02E-01	1.29E+02

Program execution time = 0.07 seconds

**MILDOS-AREA
RADIATION DOSES FROM
CAMECO RESOURCES
MARSLAND EXPANSION AREA
IN-SITU URANIUM RECOVERY OPERATION**

Appendix B3

September 24, 2013

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Appendix	Title	Radon Source	Weather Data	Waste Water Flow Rate
B3	MARISR	NORTH TREND CROW BUTTE RES THREE CROW	MEA	315

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METSET:

DATA: Mar3ISR.MIL

09/17/13

JOINT FREQUENCY IN PERCENT, DIRECTION INDICATES WHERE WIND IS FROM FREQWS=0.14427,0.29579,0.30967,0.17441,0.05798,0.01793

MPH N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW TOTALS

STABILITY CLASS 1

1.5	0.1410	0.0240	0.0710	0.0820	0.0940	0.1300	0.1060	0.2120	0.1770	0.3540	0.1410	0.0940	0.1180	0.0820	0.0590	0.0590	1.9440
5.5	0.2360	0.1530	0.1890	0.1770	0.1770	0.2590	0.2000	0.2120	0.2120	0.2590	0.2240	0.4010	0.1180	0.1180	0.2000	0.2120	3.3470
10.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	0.3770	0.1770	0.2600	0.2590	0.2710	0.3890	0.3060	0.4240	0.3890	0.6130	0.3650	0.4950	0.2360	0.2000	0.2590	0.2710	5.2910

STABILITY CLASS 2

1.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0120	0.0470	0.0470	0.0940	0.0120	0.0000	0.0120	0.0120	0.0000	0.0000	0.2710
5.5	0.2000	0.2240	0.2470	0.1770	0.1770	0.2470	0.3420	0.2470	0.2360	0.3180	0.3060	0.2590	0.1300	0.1650	0.2360	0.2120	3.7230
10.0	0.0240	0.0000	0.0120	0.0000	0.0120	0.0350	0.0350	0.0240	0.0710	0.0590	0.0000	0.0470	0.0240	0.0120	0.0710	0.0470	0.4730
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	0.2240	0.2240	0.2590	0.1770	0.1890	0.3170	0.3890	0.3180	0.3540	0.4710	0.3180	0.3060	0.1660	0.1890	0.3070	0.2590	4.4670

STABILITY CLASS 3

1.5	0.0120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0120	0.0350	0.0240	0.0120	0.0000	0.0000	0.0000	0.0000	0.0000	0.1300
5.5	0.0590	0.0590	0.0590	0.0820	0.1180	0.1770	0.1890	0.1530	0.1530	0.1410	0.1890	0.0820	0.0710	0.0470	0.0590	0.0940	1.7320
10.0	1.0300	0.4710	0.2950	0.3420	0.3300	0.5540	0.4120	0.4360	0.4950	0.4360	0.5660	0.6600	0.4360	0.4710	0.8130	0.7780	8.5250
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	1.1010	0.5300	0.3540	0.4240	0.4480	0.7310	0.6360	0.6010	0.6830	0.6010	0.7670	0.7420	0.5070	0.5180	0.8720	0.8720	10.3870

STABILITY CLASS 4

1.5	0.0240	0.0240	0.0000	0.0000	0.0120	0.0470	0.0240	0.0120	0.0120	0.0120	0.0240	0.0120	0.0000	0.0120	0.0120	0.0710	0.2980
5.5	0.7310	0.4710	0.1890	0.3060	0.5770	0.8840	1.0490	0.7540	0.5190	0.3890	0.4830	0.5070	0.4120	0.3770	0.6840	1.3550	9.6870
10.0	1.9100	1.0720	0.9190	0.7310	1.0370	0.9190	1.2140	1.6500	1.3080	0.8960	0.7900	1.4610	1.2730	1.4850	1.9090	2.3690	20.9430
15.5	1.7800	0.8600	0.3060	0.2000	0.3180	0.3060	0.3890	0.9550	1.3790	0.6720	0.3650	0.8720	1.2610	1.9560	3.0050	2.8170	17.4410
21.5	0.4120	0.2240	0.0120	0.0000	0.0120	0.0240	0.0350	0.3420	0.2830	0.1180	0.1410	0.2470	0.2950	0.7190	1.6970	1.2370	5.7980
28.0	0.1410	0.0120	0.0000	0.0120	0.0000	0.0120	0.0000	0.0120	0.0120	0.0000	0.0000	0.0240	0.2360	0.2950	0.5890	0.4480	1.7930
ALL	4.9980	2.6630	1.4260	1.2490	1.9560	2.1920	2.7110	3.7250	3.5130	2.0870	1.8030	3.1230	3.4770	4.8440	7.8960	8.2970	55.9600

STABILITY CLASS 5

1.5	0.1530	0.0710	0.0000	0.0000	0.0590	0.0350	0.0820	0.0710	0.0350	0.0000	0.0350	0.0350	0.0120	0.0710	0.0590	0.0940	0.8120
5.5	0.2360	0.1300	0.1650	0.2000	0.1530	0.3060	0.2000	0.2470	0.2710	0.2000	0.2950	0.2830	0.2000	0.1300	0.3540	0.9660	4.3360
10.0	0.0470	0.0350	0.0240	0.0470	0.0590	0.0240	0.0240	0.0470	0.0240	0.0240	0.0590	0.1060	0.0940	0.0820	0.1410	0.1890	1.0260
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	0.4360	0.2360	0.1890	0.2470	0.2710	0.3650	0.3060	0.3650	0.3300	0.2240	0.3890	0.4240	0.3060	0.2830	0.5540	1.2490	6.1740

STABILITY CLASS 6

1.5	0.9780	0.6950	0.6360	0.5420	0.4480	0.5190	0.6720	0.6130	0.7540	0.6600	0.5770	0.7310	0.5660	0.5770	0.6720	1.3320	10.9720
5.5	0.7070	0.2830	0.1180	0.2590	0.3540	0.3180	0.3420	0.4830	0.3420	0.4950	0.4360	0.4710	0.2950	0.5540	0.4600	0.8370	6.7540
10.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	1.6850	0.9780	0.7540	0.8010	0.8020	0.8370	1.0140	1.0960	1.0960	1.1550	1.0130	1.2020	0.8610	1.1310	1.1320	2.1690	17.7260

ALL	8.8210	4.8080	3.2420	3.1570	3.9370	4.8310	5.3620	6.5290	6.3650	5.1510	4.6550	6.2920	5.5530	7.1650	11.0200	13.1170	100.0050
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POPULATION DISTRIBUTION

KILOMETERS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
1.0- 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0-30.0	0	0	0	0	0	0	993	0	0	0	0	0	0	0	0	1107
30.0-40.0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0-50.0	0	5634	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0-60.0	0	0	0	652	0	0	0	9859	0	0	0	0	0	279	0	0
60.0-70.0	0	0	0	999	0	0	0	0	0	0	0	0	0	0	0	0
70.0-80.0	145	0	14	30	0	0	0	0	0	15542	1831	0	0	19	0	0
1.0-80.0	232	5634	14	1681	0	0	993	9859	0	15542	1831	0	0	298	0	1107

TOTAL 1-80 KM POPULATION IS 37191 PERSONS

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

SUMMARY PRINT OF POPULATION DOSES COMPUTED FOR TSTEP 1--DOSES SHOWN ARE ANNUAL POPULATION DOSE COMMITMENTS, PERSON-REM PER YEAR

DOSES RECEIVED BY PEOPLE WITHIN 80 KILOMETERS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	1.105E+00	8.942E+00	1.488E-01	6.706E+00	3.226E+00	5.541E+02
GROUND	7.423E-02	7.423E-02	7.423E-02	7.423E-02	7.423E-02	7.423E-02
CLOUD	3.928E+00	3.928E+00	3.928E+00	3.928E+00	3.928E+00	3.928E+00
VEG. ING	5.368E+00	6.203E+01	5.368E+00	1.844E+01	1.502E+01	5.368E+00
MEAT ING	3.734E-01	4.314E+00	3.734E-01	1.282E+00	1.044E+00	3.734E-01
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	1.085E+01	7.929E+01	9.893E+00	3.043E+01	2.329E+01	5.639E+02

DOSES RECEIVED BY PEOPLE BEYOND 80 KILOMETERS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GROUND	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CLOUD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
VEG. ING	9.070E+02	1.048E+04	9.070E+02	3.115E+03	2.537E+03	9.070E+02
MEAT ING	7.479E+00	8.643E+01	7.479E+00	2.569E+01	2.092E+01	7.479E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	2.092E+02	2.852E+03	4.754E+01	2.092E+02	2.092E+02	1.331E+03
TOTALS	1.124E+03	1.342E+04	9.620E+02	3.350E+03	2.767E+03	2.246E+03

TOTAL DOSES COMPUTED OVER ALL POPULATIONS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	1.105E+00	8.942E+00	1.488E-01	6.706E+00	3.226E+00	5.541E+02
GROUND	7.423E-02	7.423E-02	7.423E-02	7.423E-02	7.423E-02	7.423E-02
CLOUD	3.928E+00	3.928E+00	3.928E+00	3.928E+00	3.928E+00	3.928E+00
VEG. ING	9.123E+02	1.054E+04	9.123E+02	3.133E+03	2.552E+03	9.123E+02
MEAT ING	7.853E+00	9.074E+01	7.853E+00	2.697E+01	2.197E+01	7.853E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	2.092E+02	2.852E+03	4.754E+01	2.092E+02	2.092E+02	1.331E+03
TOTALS	1.134E+03	1.350E+04	9.719E+02	3.380E+03	2.791E+03	2.809E+03

METSET:

DATA: Mar3ISR.MIL

09/17/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 1 NAME=Alliance

X= 30.0KM, Y= -45.4KM, Z= -50.0M, DIST= 54.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	7.59E-01	3.10E-01	1.13E-01	1.24E+00	5.36E-01	1.01E+01
CHILD	TOTALS	7.41E-01	4.65E-01	1.62E-01	6.61E-01	3.50E-01	1.01E+01
TEENAGE	TOTALS	7.53E-01	8.46E-01	1.96E-01	4.10E-01	2.77E-01	1.01E+01
ADULT	TOTALS	7.60E-01	8.28E-01	2.40E-01	4.18E-01	2.96E-01	1.01E+01

NUMBER 2 NAME=Berea

X= 21.5KM, Y= -32.6KM, Z= -50.0M, DIST= 39.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	9.66E-01	3.42E-01	1.38E-01	1.30E+00	5.76E-01	1.31E+01
CHILD	TOTALS	9.47E-01	5.03E-01	1.89E-01	7.06E-01	3.83E-01	1.31E+01
TEENAGE	TOTALS	9.60E-01	8.97E-01	2.24E-01	4.46E-01	3.09E-01	1.31E+01
ADULT	TOTALS	9.67E-01	8.78E-01	2.70E-01	4.55E-01	3.29E-01	1.31E+01

NUMBER 3 NAME=Chardon X= 22.3KM, Y= 35.8KM, Z= -50.0M, DIST= 42.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	9.78E-01	2.78E-01	1.33E-01	9.55E-01	4.42E-01	1.36E+01
CHILD	TOTALS	9.65E-01	3.91E-01	1.69E-01	5.34E-01	3.07E-01	1.36E+01
TEENAGE	TOTALS	9.73E-01	6.69E-01	1.94E-01	3.51E-01	2.54E-01	1.36E+01
ADULT	TOTALS	9.79E-01	6.56E-01	2.27E-01	3.57E-01	2.68E-01	1.36E+01

NUMBER 4 NAME=Clinton X= 75.4KM, Y= 26.5KM, Z= -50.0M, DIST= 79.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.47E-01	1.66E-01	5.42E-02	6.96E-01	2.95E-01	4.48E+00
CHILD	TOTALS	3.37E-01	2.55E-01	8.19E-02	3.67E-01	1.89E-01	4.48E+00
TEENAGE	TOTALS	3.44E-01	4.73E-01	1.01E-01	2.23E-01	1.48E-01	4.48E+00
ADULT	TOTALS	3.48E-01	4.63E-01	1.26E-01	2.28E-01	1.59E-01	4.48E+00

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 5 NAME=Crawford X= -12.1KM, Y= 20.8KM, Z= -50.0M, DIST= 24.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	7.57E+00	6.59E-01	5.66E-01	1.09E+00	7.63E-01	1.17E+02
CHILD	TOTALS	7.56E+00	7.31E-01	5.90E-01	8.22E-01	6.77E-01	1.17E+02
TEENAGE	TOTALS	7.56E+00	9.07E-01	6.06E-01	7.05E-01	6.44E-01	1.17E+02
ADULT	TOTALS	7.57E+00	8.99E-01	6.27E-01	7.09E-01	6.53E-01	1.17E+02

NUMBER 6 NAME=Harrison X= -50.5KM, Y= 22.5KM, Z= -50.5M, DIST= 55.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	7.54E-01	2.17E-01	1.03E-01	7.45E-01	3.45E-01	1.05E+01
CHILD	TOTALS	7.44E-01	3.05E-01	1.32E-01	4.17E-01	2.39E-01	1.05E+01
TEENAGE	TOTALS	7.51E-01	5.22E-01	1.52E-01	2.74E-01	1.98E-01	1.05E+01
ADULT	TOTALS	7.55E-01	5.12E-01	1.77E-01	2.79E-01	2.09E-01	1.05E+01

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 7 NAME=Hay Springs X= 47.1KM, Y= 18.8KM, Z= -50.0M, DIST= 50.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	5.22E-01	1.91E-01	7.52E-02	7.36E-01	3.24E-01	7.03E+00
CHILD	TOTALS	5.11E-01	2.83E-01	1.04E-01	3.98E-01	2.15E-01	7.03E+00
TEENAGE	TOTALS	5.18E-01	5.06E-01	1.24E-01	2.50E-01	1.72E-01	7.03E+00
ADULT	TOTALS	5.22E-01	4.96E-01	1.50E-01	2.55E-01	1.83E-01	7.03E+00

NUMBER 8 NAME=Hemmingford X= 14.3KM, Y= -20.4KM, Z= 36.0M, DIST= 24.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.38E+00	4.33E-01	1.90E-01	1.57E+00	7.09E-01	1.91E+01
CHILD	TOTALS	1.36E+00	6.23E-01	2.51E-01	8.63E-01	4.81E-01	1.91E+01
TEENAGE	TOTALS	1.38E+00	1.09E+00	2.93E-01	5.55E-01	3.93E-01	1.91E+01
ADULT	TOTALS	1.39E+00	1.07E+00	3.47E-01	5.66E-01	4.17E-01	1.91E+01

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 9 NAME=Marsland X= -3.8KM, Y= -6.1KM, Z= -50.0M, DIST= 7.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.51E+00	5.51E-01	3.09E-01	1.68E+00	8.24E-01	3.59E+01
CHILD	TOTALS	2.49E+00	7.39E-01	3.70E-01	9.77E-01	5.99E-01	3.59E+01
TEENAGE	TOTALS	2.50E+00	1.20E+00	4.12E-01	6.72E-01	5.11E-01	3.59E+01
ADULT	TOTALS	2.51E+00	1.18E+00	4.66E-01	6.83E-01	5.34E-01	3.59E+01

NUMBER 10 NAME=Mitchell X= -48.5KM, Y= -60.0KM, Z= -50.0M, DIST= 77.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.32E-01	1.71E-01	5.28E-02	7.29E-01	3.07E-01	4.23E+00
CHILD	TOTALS	3.22E-01	2.64E-01	8.20E-02	3.82E-01	1.95E-01	4.23E+00
TEENAGE	TOTALS	3.29E-01	4.94E-01	1.02E-01	2.31E-01	1.51E-01	4.23E+00
ADULT	TOTALS	3.33E-01	4.83E-01	1.29E-01	2.36E-01	1.63E-01	4.23E+00

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 11 NAME=Oelrichs

X= 4.9KM, Y= 75.3KM, Z= -50.0M, DIST= 75.5KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	6.65E-01	2.74E-01	9.87E-02	1.10E+00	4.74E-01	8.80E+00
CHILD	TOTALS	6.49E-01	4.12E-01	1.43E-01	5.86E-01	3.09E-01	8.80E+00
TEENAGE	TOTALS	6.60E-01	7.50E-01	1.73E-01	3.63E-01	2.45E-01	8.80E+00
ADULT	TOTALS	6.66E-01	7.34E-01	2.12E-01	3.70E-01	2.62E-01	8.80E+00

NUMBER 12 NAME=Rushville

X= 66.0KM, Y= 22.0KM, Z= -50.0M, DIST= 69.6KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.86E-01	1.71E-01	5.87E-02	6.98E-01	2.99E-01	5.05E+00
CHILD	TOTALS	3.76E-01	2.59E-01	8.65E-02	3.71E-01	1.93E-01	5.05E+00
TEENAGE	TOTALS	3.82E-01	4.76E-01	1.06E-01	2.27E-01	1.52E-01	5.05E+00
ADULT	TOTALS	3.86E-01	4.66E-01	1.31E-01	2.32E-01	1.63E-01	5.05E+00

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 13 NAME=Scottsbluff X= -36.3KM, Y= -68.9KM, Z= -50.0M, DIST= 77.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.95E-01	2.03E-01	6.29E-02	8.66E-01	3.65E-01	5.03E+00
CHILD	TOTALS	3.82E-01	3.14E-01	9.75E-02	4.54E-01	2.31E-01	5.03E+00
TEENAGE	TOTALS	3.91E-01	5.87E-01	1.22E-01	2.74E-01	1.80E-01	5.03E+00
ADULT	TOTALS	3.96E-01	5.74E-01	1.53E-01	2.81E-01	1.93E-01	5.03E+00

NUMBER 14 NAME=Van Tassell X= -67.5KM, Y= 21.0KM, Z= 49.0M, DIST= 70.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	5.31E-01	1.98E-01	7.72E-02	7.64E-01	3.36E-01	7.13E+00
CHILD	TOTALS	5.20E-01	2.93E-01	1.08E-01	4.12E-01	2.22E-01	7.13E+00
TEENAGE	TOTALS	5.27E-01	5.25E-01	1.28E-01	2.59E-01	1.78E-01	7.13E+00
ADULT	TOTALS	5.31E-01	5.14E-01	1.55E-01	2.64E-01	1.90E-01	7.13E+00

NUMBER 15 NAME=Whitney X= 1.2KM, Y= 31.4KM, Z= -50.0M, DIST= 31.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.14E+00	3.94E-01	2.50E-01	1.06E+00	5.56E-01	3.12E+01
CHILD	TOTALS	2.13E+00	5.06E-01	2.87E-01	6.46E-01	4.22E-01	3.12E+01
TEENAGE	TOTALS	2.14E+00	7.80E-01	3.12E-01	4.66E-01	3.70E-01	3.12E+01
ADULT	TOTALS	2.14E+00	7.67E-01	3.44E-01	4.72E-01	3.84E-01	3.12E+01

NUMBER 16 NAME=Residence 1 X= -0.9KM, Y= -0.6KM, Z= 3.4M, DIST= 1.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.42E+00	7.04E-01	4.10E-01	2.07E+00	1.04E+00	4.93E+01
CHILD	TOTALS	3.39E+00	9.33E-01	4.84E-01	1.22E+00	7.62E-01	4.93E+01
TEENAGE	TOTALS	3.41E+00	1.49E+00	5.35E-01	8.51E-01	6.55E-01	4.93E+01
ADULT	TOTALS	3.42E+00	1.47E+00	6.01E-01	8.64E-01	6.84E-01	4.93E+01

METSET:

DATA: Mar3ISR.MIL

09/17/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 17 NAME=Residence 2 X= 1.0KM, Y= 0.3KM, Z= -4.0M, DIST= 1.0KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.25E+00	6.60E-01	3.87E-01	1.93E+00	9.69E-01	4.69E+01
CHILD	TOTALS	3.23E+00	8.73E-01	4.56E-01	1.14E+00	7.14E-01	4.69E+01
TEENAGE	TOTALS	3.24E+00	1.40E+00	5.03E-01	7.97E-01	6.15E-01	4.69E+01
ADULT	TOTALS	3.25E+00	1.37E+00	5.64E-01	8.09E-01	6.42E-01	4.69E+01

NUMBER 18 NAME=Residence 3 X= -0.8KM, Y= -1.9KM, Z= -16.0M, DIST= 2.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.22E+00	6.83E-01	3.91E-01	2.04E+00	1.01E+00	4.63E+01
CHILD	TOTALS	3.20E+00	9.11E-01	4.65E-01	1.20E+00	7.41E-01	4.63E+01
TEENAGE	TOTALS	3.21E+00	1.47E+00	5.15E-01	8.30E-01	6.35E-01	4.63E+01
ADULT	TOTALS	3.22E+00	1.44E+00	5.81E-01	8.42E-01	6.63E-01	4.63E+01

NUMBER 19 NAME=Residence 4 X= -0.4KM, Y= -3.4KM, Z= -31.0M, DIST= 3.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.91E+00	6.33E-01	3.57E-01	1.92E+00	9.46E-01	4.18E+01
CHILD	TOTALS	2.89E+00	8.49E-01	4.27E-01	1.12E+00	6.88E-01	4.18E+01
TEENAGE	TOTALS	2.91E+00	1.38E+00	4.74E-01	7.72E-01	5.88E-01	4.18E+01
ADULT	TOTALS	2.92E+00	1.35E+00	5.36E-01	7.84E-01	6.14E-01	4.18E+01

NUMBER 20 NAME=Residence 5 X= 1.9KM, Y= -4.3KM, Z= -36.0M, DIST= 4.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.52E+00	5.61E-01	3.11E-01	1.72E+00	8.43E-01	3.60E+01
CHILD	TOTALS	2.50E+00	7.55E-01	3.74E-01	1.00E+00	6.10E-01	3.60E+01
TEENAGE	TOTALS	2.51E+00	1.23E+00	4.17E-01	6.86E-01	5.20E-01	3.60E+01
ADULT	TOTALS	2.52E+00	1.21E+00	4.73E-01	6.97E-01	5.44E-01	3.60E+01

METSET:

DATA: Mar3ISR.MIL

09/17/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 21 NAME=Residence 6 X= -4.7KM, Y= 1.9KM, Z= 22.0M, DIST= 5.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.20E+00	7.80E-01	4.84E-01	2.16E+00	1.11E+00	6.12E+01
CHILD	TOTALS	4.17E+00	1.01E+00	5.59E-01	1.30E+00	8.39E-01	6.12E+01
TEENAGE	TOTALS	4.19E+00	1.58E+00	6.10E-01	9.29E-01	7.32E-01	6.12E+01
ADULT	TOTALS	4.20E+00	1.55E+00	6.76E-01	9.42E-01	7.60E-01	6.12E+01

NUMBER 22 NAME=Residence 7 X= 2.4KM, Y= 3.6KM, Z= 76.0M, DIST= 4.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.13E+00	5.91E-01	3.59E-01	1.67E+00	8.53E-01	4.56E+01
CHILD	TOTALS	3.11E+00	7.72E-01	4.18E-01	1.00E+00	6.37E-01	4.56E+01
TEENAGE	TOTALS	3.13E+00	1.21E+00	4.58E-01	7.07E-01	5.53E-01	4.56E+01
ADULT	TOTALS	3.14E+00	1.19E+00	5.10E-01	7.17E-01	5.76E-01	4.56E+01

NUMBER 23 NAME=Residence 8 X= 4.7KM, Y= -4.4KM, Z= -50.0M, DIST= 6.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.09E+00	4.58E-01	2.56E-01	1.40E+00	6.87E-01	3.00E+01
CHILD	TOTALS	2.07E+00	6.16E-01	3.07E-01	8.15E-01	4.99E-01	3.00E+01
TEENAGE	TOTALS	2.09E+00	1.00E+00	3.42E-01	5.60E-01	4.25E-01	3.00E+01
ADULT	TOTALS	2.09E+00	9.84E-01	3.87E-01	5.69E-01	4.45E-01	3.00E+01

NUMBER 24 NAME=Unoccupied 1 X= -0.9KM, Y= 1.9KM, Z= 15.7M, DIST= 2.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.83E+00	7.36E-01	4.46E-01	2.08E+00	1.06E+00	5.55E+01
CHILD	TOTALS	3.80E+00	9.62E-01	5.20E-01	1.25E+00	7.94E-01	5.55E+01
TEENAGE	TOTALS	3.82E+00	1.51E+00	5.70E-01	8.81E-01	6.89E-01	5.55E+01
ADULT	TOTALS	3.83E+00	1.49E+00	6.35E-01	8.94E-01	7.17E-01	5.55E+01

METSET:

DATA: Mar3ISR.MIL

09/17/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 25 NAME=Unoccupied 2 X= 2.0KM, Y= 2.8KM, Z= 69.0M, DIST= 3.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.22E+00	6.18E-01	3.73E-01	1.76E+00	8.95E-01	4.68E+01
CHILD	TOTALS	3.20E+00	8.09E-01	4.35E-01	1.05E+00	6.66E-01	4.68E+01
TEENAGE	TOTALS	3.21E+00	1.28E+00	4.77E-01	7.40E-01	5.78E-01	4.68E+01
ADULT	TOTALS	3.22E+00	1.25E+00	5.32E-01	7.51E-01	6.01E-01	4.68E+01

NUMBER 26 NAME=North Boundary #1 X= -1.3KM, Y= 5.1KM, Z= 35.0M, DIST= 5.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.45E+00	7.70E-01	4.95E-01	2.05E+00	1.08E+00	6.52E+01
CHILD	TOTALS	4.43E+00	9.85E-01	5.65E-01	1.25E+00	8.25E-01	6.52E+01
TEENAGE	TOTALS	4.44E+00	1.51E+00	6.13E-01	9.08E-01	7.25E-01	6.52E+01
ADULT	TOTALS	4.45E+00	1.49E+00	6.74E-01	9.20E-01	7.52E-01	6.52E+01

NUMBER 27 NAME=East Boundary X= 1.7KM, Y= 0.0KM, Z= -2.6M, DIST= 1.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.10E+00	6.37E-01	3.70E-01	1.88E+00	9.39E-01	4.47E+01
CHILD	TOTALS	3.08E+00	8.46E-01	4.38E-01	1.11E+00	6.90E-01	4.47E+01
TEENAGE	TOTALS	3.09E+00	1.36E+00	4.84E-01	7.71E-01	5.94E-01	4.47E+01
ADULT	TOTALS	3.10E+00	1.33E+00	5.44E-01	7.83E-01	6.19E-01	4.47E+01

NUMBER 28 NAME=South Boundary X= 0.0KM, Y= -0.6KM, Z= 0.5M, DIST= 0.6KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.32E+00	6.89E-01	3.99E-01	2.03E+00	1.02E+00	4.79E+01
CHILD	TOTALS	3.30E+00	9.14E-01	4.73E-01	1.20E+00	7.46E-01	4.79E+01
TEENAGE	TOTALS	3.32E+00	1.47E+00	5.23E-01	8.34E-01	6.41E-01	4.79E+01
ADULT	TOTALS	3.33E+00	1.44E+00	5.87E-01	8.47E-01	6.69E-01	4.79E+01

NUMBER 29 NAME=West Boundary X= -0.7KM, Y= 0.0KM, Z= 12.2M, DIST= 0.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.56E+00	7.21E-01	4.24E-01	2.10E+00	1.06E+00	5.14E+01
CHILD	TOTALS	3.53E+00	9.52E-01	4.99E-01	1.24E+00	7.80E-01	5.14E+01
TEENAGE	TOTALS	3.55E+00	1.52E+00	5.50E-01	8.69E-01	6.72E-01	5.14E+01
ADULT	TOTALS	3.56E+00	1.49E+00	6.17E-01	8.82E-01	7.01E-01	5.14E+01

NUMBER 30 NAME=Minatare X= -22.4KM, Y= -75.6KM, Z= -41.4M, DIST= 78.8KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.74E-01	2.50E-01	7.61E-02	1.07E+00	4.50E-01	5.99E+00
CHILD	TOTALS	4.57E-01	3.87E-01	1.19E-01	5.61E-01	2.85E-01	5.99E+00
TEENAGE	TOTALS	4.68E-01	7.26E-01	1.49E-01	3.38E-01	2.21E-01	5.99E+00
ADULT	TOTALS	4.74E-01	7.10E-01	1.88E-01	3.46E-01	2.38E-01	5.99E+00

REGION: Marsland All Well Field CODE: MILDOS-AREA (02/12)
METSET: DATA: Mar3ISR.MIL

PAGE 22
09/17/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 31 NAME=North Boundary #2 X= -0.5KM, Y= 3.3KM, Z= 20.0M, DIST= 3.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.93E+00	7.27E-01	4.50E-01	2.01E+00	1.04E+00	5.73E+01
CHILD	TOTALS	3.91E+00	9.42E-01	5.20E-01	1.21E+00	7.81E-01	5.73E+01
TEENAGE	TOTALS	3.92E+00	1.47E+00	5.68E-01	8.65E-01	6.81E-01	5.73E+01
ADULT	TOTALS	3.93E+00	1.44E+00	6.30E-01	8.77E-01	7.08E-01	5.73E+01

Program execution time = 0.35 seconds

**MILDOS-AREA
RADIATION DOSES FROM
CAMECO RESOURCES
MARSLAND EXPANSION AREA
IN-SITU URANIUM RECOVERY OPERATION**

Appendix B4

September 24, 2013

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Appendix	Title	Radon Source	Weather Data	Waste Water Flow Rate
B4	MARMU A-F	MU A-F	MEA	315

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JOINT FREQUENCY IN PERCENT, DIRECTION INDICATES WHERE WIND IS FROM FREQWS=0.11872,0.21958,0.27611,0.26217,0.08349,0.04013

MPH N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW TOTALS

STABILITY CLASS 1

Table with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows for Stability Class 1.

STABILITY CLASS 2

Table with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows for Stability Class 2.

STABILITY CLASS 3

Table with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows for Stability Class 3.

STABILITY CLASS 4

Table with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows for Stability Class 4.

STABILITY CLASS 5

Table with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows for Stability Class 5.

STABILITY CLASS 6

Table with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows for Stability Class 6.

Summary row for ALL with 17 columns (MPH, N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS).

POPULATION DISTRIBUTION

KILOMETERS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
1.0- 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0-30.0	0	0	0	0	0	0	993	0	0	0	0	0	0	0	0	1107
30.0-40.0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0-50.0	0	5634	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0-60.0	0	0	0	652	0	0	0	9859	0	0	0	0	0	279	0	0
60.0-70.0	0	0	0	999	0	0	0	0	0	0	0	0	0	0	0	0
70.0-80.0	145	0	14	30	0	0	0	0	0	15542	1831	0	0	19	0	0
1.0-80.0	232	5634	14	1681	0	0	993	9859	0	15542	1831	0	0	298	0	1107

TOTAL 1-80 KM POPULATION IS 37191 PERSONS

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

SUMMARY PRINT OF POPULATION DOSES COMPUTED FOR TSTEP 1--DOSES SHOWN ARE ANNUAL POPULATION DOSE COMMITMENTS, PERSON-REM PER YEAR

DOSES RECEIVED BY PEOPLE WITHIN 80 KILOMETERS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	2.754E-01	2.230E+00	3.595E-02	1.672E+00	8.041E-01	1.156E+02
GROUND	1.609E-02	1.609E-02	1.609E-02	1.609E-02	1.609E-02	1.609E-02
CLOUD	9.727E-01	9.727E-01	9.727E-01	9.727E-01	9.727E-01	9.727E-01
VEG. ING	1.302E+00	1.504E+01	1.302E+00	4.472E+00	3.642E+00	1.302E+00
MEAT ING	9.056E-02	1.046E+00	9.056E-02	3.110E-01	2.533E-01	9.056E-02
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	2.657E+00	1.931E+01	2.417E+00	7.444E+00	5.689E+00	1.180E+02

DOSES RECEIVED BY PEOPLE BEYOND 80 KILOMETERS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GROUND	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CLOUD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
VEG. ING	2.200E+02	2.542E+03	2.200E+02	7.555E+02	6.154E+02	2.200E+02
MEAT ING	1.814E+00	2.096E+01	1.814E+00	6.231E+00	5.075E+00	1.814E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	2.218E+02	2.563E+03	2.218E+02	7.617E+02	6.205E+02	2.218E+02

TOTAL DOSES COMPUTED OVER ALL POPULATIONS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	2.754E-01	2.230E+00	3.595E-02	1.672E+00	8.041E-01	1.156E+02
GROUND	1.609E-02	1.609E-02	1.609E-02	1.609E-02	1.609E-02	1.609E-02
CLOUD	9.727E-01	9.727E-01	9.727E-01	9.727E-01	9.727E-01	9.727E-01
VEG. ING	2.213E+02	2.557E+03	2.213E+02	7.600E+02	6.190E+02	2.213E+02
MEAT ING	1.905E+00	2.201E+01	1.905E+00	6.542E+00	5.328E+00	1.905E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	2.245E+02	2.582E+03	2.242E+02	7.692E+02	6.262E+02	3.398E+02

NUMBER 1 NAME=Alliance

X= 30.0KM, Y= -45.4KM, Z= -50.0M, DIST= 54.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.07E-01	9.02E-02	4.14E-02	3.18E-01	1.46E-01	4.26E+00
CHILD	TOTALS	3.02E-01	1.28E-01	5.37E-02	1.77E-01	1.00E-01	4.26E+00
TEENAGE	TOTALS	3.05E-01	2.22E-01	6.21E-02	1.15E-01	8.22E-02	4.26E+00
ADULT	TOTALS	3.07E-01	2.18E-01	7.30E-02	1.17E-01	8.69E-02	4.26E+00

NUMBER 2 NAME=Berea

X= 21.5KM, Y= -32.6KM, Z= -50.0M, DIST= 39.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.54E-01	1.08E-01	5.69E-02	3.44E-01	1.65E-01	6.45E+00
CHILD	TOTALS	4.49E-01	1.47E-01	6.97E-02	1.97E-01	1.18E-01	6.45E+00
TEENAGE	TOTALS	4.52E-01	2.44E-01	7.85E-02	1.33E-01	9.93E-02	6.45E+00
ADULT	TOTALS	4.54E-01	2.40E-01	8.98E-02	1.35E-01	1.04E-01	6.45E+00

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 3 NAME=Chardon

X= 22.3KM, Y= 35.8KM, Z= -50.0M, DIST= 42.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.39E-01	7.84E-02	3.34E-02	2.89E-01	1.30E-01	3.28E+00
CHILD	TOTALS	2.35E-01	1.14E-01	4.48E-02	1.58E-01	8.74E-02	3.28E+00
TEENAGE	TOTALS	2.38E-01	2.00E-01	5.25E-02	1.01E-01	7.10E-02	3.28E+00
ADULT	TOTALS	2.40E-01	1.96E-01	6.26E-02	1.03E-01	7.54E-02	3.28E+00

NUMBER 4 NAME=Clinton

X= 75.4KM, Y= 26.5KM, Z= -50.0M, DIST= 79.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.21E-01	5.26E-02	1.84E-02	2.14E-01	9.19E-02	1.59E+00
CHILD	TOTALS	1.18E-01	7.96E-02	2.69E-02	1.14E-01	5.95E-02	1.59E+00
TEENAGE	TOTALS	1.20E-01	1.46E-01	3.28E-02	7.00E-02	4.69E-02	1.59E+00
ADULT	TOTALS	1.22E-01	1.43E-01	4.05E-02	7.15E-02	5.03E-02	1.59E+00

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 5 NAME=Crawford

X= -12.1KM, Y= 20.8KM, Z= -50.0M, DIST= 24.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.32E-01	9.52E-02	5.34E-02	2.90E-01	1.43E-01	6.18E+00
CHILD	TOTALS	4.28E-01	1.28E-01	6.40E-02	1.69E-01	1.04E-01	6.18E+00
TEENAGE	TOTALS	4.30E-01	2.08E-01	7.12E-02	1.16E-01	8.84E-02	6.18E+00
ADULT	TOTALS	4.32E-01	2.04E-01	8.05E-02	1.18E-01	9.24E-02	6.18E+00

NUMBER 6 NAME=Harrison

X= -50.5KM, Y= 22.5KM, Z= -50.0M, DIST= 55.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.53E-01	5.50E-02	2.21E-02	2.09E-01	9.26E-02	2.07E+00
CHILD	TOTALS	1.50E-01	8.09E-02	3.03E-02	1.14E-01	6.16E-02	2.07E+00
TEENAGE	TOTALS	1.52E-01	1.44E-01	3.60E-02	7.17E-02	4.96E-02	2.07E+00
ADULT	TOTALS	1.53E-01	1.41E-01	4.34E-02	7.31E-02	5.28E-02	2.07E+00

NUMBER 7 NAME=Hay Springs X= 47.1KM, Y= 18.8KM, Z= -50.0M, DIST= 50.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.97E-01	6.37E-02	2.75E-02	2.33E-01	1.05E-01	2.70E+00
CHILD	TOTALS	1.94E-01	9.20E-02	3.66E-02	1.28E-01	7.09E-02	2.70E+00
TEENAGE	TOTALS	1.96E-01	1.61E-01	4.28E-02	8.19E-02	5.77E-02	2.70E+00
ADULT	TOTALS	1.97E-01	1.58E-01	5.09E-02	8.35E-02	6.12E-02	2.70E+00

NUMBER 8 NAME=Hemmingford X= 14.3KM, Y= -20.4KM, Z= 36.0M, DIST= 24.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.48E-01	1.55E-01	9.52E-02	4.35E-01	2.23E-01	1.24E+01
CHILD	TOTALS	8.43E-01	2.02E-01	1.10E-01	2.61E-01	1.67E-01	1.24E+01
TEENAGE	TOTALS	8.47E-01	3.17E-01	1.21E-01	1.85E-01	1.45E-01	1.24E+01
ADULT	TOTALS	8.49E-01	3.12E-01	1.34E-01	1.88E-01	1.51E-01	1.24E+01

NUMBER 9 NAME=Marsland X= -3.8KM, Y= -6.1KM, Z= -50.0M, DIST= 7.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.19E+00	1.37E-01	1.11E-01	2.57E-01	1.66E-01	1.80E+01
CHILD	TOTALS	1.19E+00	1.57E-01	1.17E-01	1.82E-01	1.42E-01	1.80E+01
TEENAGE	TOTALS	1.19E+00	2.06E-01	1.22E-01	1.50E-01	1.33E-01	1.80E+01
ADULT	TOTALS	1.19E+00	2.04E-01	1.28E-01	1.51E-01	1.35E-01	1.80E+01

NUMBER 10 NAME=Mitchell X= -48.5KM, Y= -60.0KM, Z= -50.0M, DIST= 77.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.83E-02	4.39E-02	1.38E-02	1.86E-01	7.85E-02	1.13E+00
CHILD	TOTALS	8.55E-02	6.76E-02	2.13E-02	9.76E-02	5.00E-02	1.13E+00
TEENAGE	TOTALS	8.73E-02	1.26E-01	2.64E-02	5.92E-02	3.89E-02	1.13E+00
ADULT	TOTALS	8.84E-02	1.23E-01	3.32E-02	6.05E-02	4.18E-02	1.13E+00

NUMBER 11 NAME=Oelrichs X= 4.9KM, Y= 75.3KM, Z= -50.0M, DIST= 75.5KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.35E-01	6.19E-02	2.07E-02	2.57E-01	1.09E-01	1.75E+00
CHILD	TOTALS	1.31E-01	9.45E-02	3.09E-02	1.36E-01	7.03E-02	1.75E+00
TEENAGE	TOTALS	1.33E-01	1.74E-01	3.80E-02	8.29E-02	5.51E-02	1.75E+00
ADULT	TOTALS	1.35E-01	1.71E-01	4.73E-02	8.47E-02	5.91E-02	1.75E+00

NUMBER 12 NAME=Rushville X= 66.0KM, Y= 22.0KM, Z= -50.0M, DIST= 69.6KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.42E-01	5.60E-02	2.09E-02	2.21E-01	9.62E-02	1.89E+00
CHILD	TOTALS	1.38E-01	8.37E-02	2.97E-02	1.19E-01	6.31E-02	1.89E+00
TEENAGE	TOTALS	1.41E-01	1.52E-01	3.57E-02	7.38E-02	5.02E-02	1.89E+00
ADULT	TOTALS	1.42E-01	1.48E-01	4.36E-02	7.53E-02	5.36E-02	1.89E+00

NUMBER 13 NAME=Scottsbluff X= -36.3KM, Y= -68.9KM, Z= -50.0M, DIST= 77.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.03E-01	4.96E-02	1.60E-02	2.08E-01	8.83E-02	1.33E+00
CHILD	TOTALS	9.99E-02	7.62E-02	2.43E-02	1.10E-01	5.64E-02	1.33E+00
TEENAGE	TOTALS	1.02E-01	1.41E-01	3.01E-02	6.67E-02	4.40E-02	1.33E+00
ADULT	TOTALS	1.03E-01	1.38E-01	3.77E-02	6.82E-02	4.73E-02	1.33E+00

NUMBER 14 NAME=Van Tassell X= -67.5KM, Y= 21.0KM, Z= 49.0M, DIST= 70.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.21E-01	5.16E-02	1.82E-02	2.09E-01	8.99E-02	1.59E+00
CHILD	TOTALS	1.18E-01	7.79E-02	2.65E-02	1.11E-01	5.83E-02	1.59E+00
TEENAGE	TOTALS	1.20E-01	1.43E-01	3.22E-02	6.85E-02	4.60E-02	1.59E+00
ADULT	TOTALS	1.21E-01	1.39E-01	3.98E-02	7.00E-02	4.93E-02	1.59E+00

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 15 NAME=Whitney

X= 1.2KM, Y= 31.4KM, Z= -50.0M, DIST= 31.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.40E-01	8.98E-02	4.42E-02	3.03E-01	1.42E-01	4.77E+00
CHILD	TOTALS	3.35E-01	1.25E-01	5.57E-02	1.70E-01	9.89E-02	4.77E+00
TEENAGE	TOTALS	3.38E-01	2.13E-01	6.36E-02	1.13E-01	8.23E-02	4.77E+00
ADULT	TOTALS	3.40E-01	2.09E-01	7.38E-02	1.15E-01	8.67E-02	4.77E+00

NUMBER 16 NAME=Residence 1

X= -0.8KM, Y= -0.6KM, Z= 3.4M, DIST= 1.0KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	5.47E+00	3.73E-01	3.38E-01	5.38E-01	4.13E-01	8.58E+01
CHILD	TOTALS	5.47E+00	4.01E-01	3.47E-01	4.36E-01	3.80E-01	8.58E+01
TEENAGE	TOTALS	5.47E+00	4.68E-01	3.53E-01	3.91E-01	3.68E-01	8.58E+01
ADULT	TOTALS	5.47E+00	4.65E-01	3.61E-01	3.93E-01	3.71E-01	8.58E+01

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 17 NAME=Residence 2 X= 1.0KM, Y= 0.3KM, Z= -4.0M, DIST= 1.0KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.22E+00	3.78E-01	3.49E-01	5.15E-01	4.11E-01	1.31E+02
CHILD	TOTALS	8.22E+00	4.01E-01	3.56E-01	4.30E-01	3.84E-01	1.31E+02
TEENAGE	TOTALS	8.22E+00	4.57E-01	3.61E-01	3.93E-01	3.73E-01	1.31E+02
ADULT	TOTALS	8.22E+00	4.54E-01	3.68E-01	3.94E-01	3.76E-01	1.31E+02

NUMBER 18 NAME=Residence 3 X= -0.8KM, Y= -1.9KM, Z= -16.0M, DIST= 2.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.73E+00	3.25E-01	2.97E-01	4.57E-01	3.57E-01	7.40E+01
CHILD	TOTALS	4.73E+00	3.47E-01	3.04E-01	3.75E-01	3.31E-01	7.40E+01
TEENAGE	TOTALS	4.73E+00	4.01E-01	3.09E-01	3.39E-01	3.20E-01	7.40E+01
ADULT	TOTALS	4.73E+00	3.99E-01	3.15E-01	3.41E-01	3.23E-01	7.40E+01

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 19 NAME=Residence 4 X= -0.4KM, Y= -3.4KM, Z= -31.0M, DIST= 3.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.48E+00	2.92E-01	2.69E-01	3.98E-01	3.18E-01	7.03E+01
CHILD	TOTALS	4.47E+00	3.10E-01	2.75E-01	3.32E-01	2.97E-01	7.03E+01
TEENAGE	TOTALS	4.48E+00	3.53E-01	2.79E-01	3.04E-01	2.88E-01	7.03E+01
ADULT	TOTALS	4.48E+00	3.51E-01	2.84E-01	3.05E-01	2.91E-01	7.03E+01

NUMBER 20 NAME=Residence 5 X= 1.9KM, Y= -4.3KM, Z= -36.0M, DIST= 4.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.33E+01	3.07E-01	2.91E-01	3.80E-01	3.25E-01	2.18E+02
CHILD	TOTALS	1.33E+01	3.19E-01	2.95E-01	3.35E-01	3.10E-01	2.18E+02
TEENAGE	TOTALS	1.33E+01	3.49E-01	2.98E-01	3.15E-01	3.04E-01	2.18E+02
ADULT	TOTALS	1.33E+01	3.48E-01	3.01E-01	3.16E-01	3.06E-01	2.18E+02

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 21 NAME=Residence 6 X= -4.7KM, Y= 1.9KM, Z= 22.0M, DIST= 5.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.09E+00	2.29E-01	1.87E-01	4.25E-01	2.77E-01	3.17E+01
CHILD	TOTALS	2.09E+00	2.62E-01	1.98E-01	3.03E-01	2.37E-01	3.17E+01
TEENAGE	TOTALS	2.09E+00	3.42E-01	2.05E-01	2.50E-01	2.22E-01	3.17E+01
ADULT	TOTALS	2.09E+00	3.39E-01	2.14E-01	2.52E-01	2.26E-01	3.17E+01

NUMBER 22 NAME=Residence 7 X= 2.4KM, Y= 3.6KM, Z= 76.0M, DIST= 4.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.39E+00	3.19E-01	2.71E-01	5.41E-01	3.73E-01	5.20E+01
CHILD	TOTALS	3.38E+00	3.56E-01	2.84E-01	4.03E-01	3.29E-01	5.20E+01
TEENAGE	TOTALS	3.38E+00	4.47E-01	2.92E-01	3.43E-01	3.11E-01	5.20E+01
ADULT	TOTALS	3.39E+00	4.43E-01	3.03E-01	3.45E-01	3.16E-01	5.20E+01

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 23 NAME=Residence 8 X= 4.7KM, Y= -4.4KM, Z= -50.0M, DIST= 6.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.27E+00	1.76E-01	1.63E-01	2.33E-01	1.89E-01	6.85E+01
CHILD	TOTALS	4.27E+00	1.85E-01	1.66E-01	1.97E-01	1.78E-01	6.85E+01
TEENAGE	TOTALS	4.27E+00	2.09E-01	1.68E-01	1.82E-01	1.74E-01	6.85E+01
ADULT	TOTALS	4.27E+00	2.08E-01	1.71E-01	1.82E-01	1.75E-01	6.85E+01

NUMBER 24 NAME=Unoccupied 1 X= -0.9KM, Y= 1.9KM, Z= 15.7M, DIST= 2.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.12E+01	3.64E-01	3.28E-01	5.30E-01	4.04E-01	1.81E+02
CHILD	TOTALS	1.12E+01	3.92E-01	3.37E-01	4.27E-01	3.71E-01	1.81E+02
TEENAGE	TOTALS	1.12E+01	4.60E-01	3.43E-01	3.82E-01	3.58E-01	1.81E+02
ADULT	TOTALS	1.12E+01	4.57E-01	3.51E-01	3.83E-01	3.62E-01	1.81E+02

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 25 NAME=Unoccupied 2 X= 2.0KM, Y= 2.8KM, Z= 69.0M, DIST= 3.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.89E+00	3.37E-01	2.93E-01	5.41E-01	3.87E-01	6.01E+01
CHILD	TOTALS	3.89E+00	3.71E-01	3.05E-01	4.14E-01	3.46E-01	6.01E+01
TEENAGE	TOTALS	3.89E+00	4.55E-01	3.12E-01	3.59E-01	3.30E-01	6.01E+01
ADULT	TOTALS	3.89E+00	4.51E-01	3.22E-01	3.61E-01	3.34E-01	6.01E+01

NUMBER 26 NAME=North Boundary #1 X= -1.3KM, Y= 5.1KM, Z= 34.7M, DIST= 5.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.92E+00	2.83E-01	2.41E-01	4.79E-01	3.31E-01	6.13E+01
CHILD	TOTALS	3.91E+00	3.16E-01	2.51E-01	3.57E-01	2.91E-01	6.13E+01
TEENAGE	TOTALS	3.91E+00	3.96E-01	2.59E-01	3.04E-01	2.76E-01	6.13E+01
ADULT	TOTALS	3.92E+00	3.93E-01	2.68E-01	3.06E-01	2.80E-01	6.13E+01

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 27 NAME=East Boundary X= 1.7KM, Y= 0.0KM, Z= -2.6M, DIST= 1.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.82E+00	3.92E-01	3.63E-01	5.26E-01	4.25E-01	1.41E+02
CHILD	TOTALS	8.82E+00	4.15E-01	3.71E-01	4.43E-01	3.98E-01	1.41E+02
TEENAGE	TOTALS	8.82E+00	4.70E-01	3.76E-01	4.07E-01	3.88E-01	1.41E+02
ADULT	TOTALS	8.82E+00	4.67E-01	3.82E-01	4.08E-01	3.90E-01	1.41E+02

NUMBER 28 NAME=South Boundary X= 0.0KM, Y= -0.6KM, Z= 0.5M, DIST= 0.6KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.26E+00	4.07E-01	3.75E-01	5.58E-01	4.44E-01	1.32E+02
CHILD	TOTALS	8.26E+00	4.33E-01	3.83E-01	4.65E-01	4.14E-01	1.32E+02
TEENAGE	TOTALS	8.26E+00	4.95E-01	3.89E-01	4.24E-01	4.02E-01	1.32E+02
ADULT	TOTALS	8.26E+00	4.92E-01	3.96E-01	4.25E-01	4.05E-01	1.32E+02

METSET:

DATA: MarMUA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 29 NAME=West Boundary X= -0.7KM, Y= 0.0KM, Z= 12.2M, DIST= 0.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	6.11E+00	4.03E-01	3.66E-01	5.75E-01	4.45E-01	9.59E+01
CHILD	TOTALS	6.11E+00	4.32E-01	3.76E-01	4.68E-01	4.11E-01	9.59E+01
TEENAGE	TOTALS	6.11E+00	5.03E-01	3.82E-01	4.22E-01	3.97E-01	9.59E+01
ADULT	TOTALS	6.11E+00	4.99E-01	3.90E-01	4.23E-01	4.01E-01	9.59E+01

NUMBER 30 NAME=Minatare X= -22.4KM, Y= -75.6KM, Z= -41.4M, DIST= 78.8KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.22E-01	5.76E-02	1.89E-02	2.41E-01	1.02E-01	1.58E+00
CHILD	TOTALS	1.19E-01	8.83E-02	2.85E-02	1.27E-01	6.55E-02	1.58E+00
TEENAGE	TOTALS	1.21E-01	1.63E-01	3.52E-02	7.74E-02	5.12E-02	1.58E+00
ADULT	TOTALS	1.23E-01	1.60E-01	4.39E-02	7.91E-02	5.50E-02	1.58E+00

NUMBER 31 NAME=North Boundary #2 X= -0.5KM, Y= 3.3KM, Z= 19.7M, DIST= 3.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.44E+01	2.72E-01	2.37E-01	4.35E-01	3.12E-01	2.35E+02
CHILD	TOTALS	1.44E+01	3.00E-01	2.46E-01	3.34E-01	2.79E-01	2.35E+02
TEENAGE	TOTALS	1.44E+01	3.66E-01	2.52E-01	2.90E-01	2.67E-01	2.35E+02
ADULT	TOTALS	1.44E+01	3.63E-01	2.60E-01	2.91E-01	2.70E-01	2.35E+02

Program execution time = 0.64 seconds

**MILDOS-AREA
RADIATION DOSES FROM
CAMECO RESOURCES
MARSLAND EXPANSION AREA
IN-SITU URANIUM RECOVERY OPERATION**

Appendices B5 – B8

**By
Noel Savignac, Ph.D.**

September 24, 2013

**8500 Menaul Blvd., NE, Suite B-335, Albuquerque, NM 87112
Bus: (505) 881-4150 Res: (505) 256-9603 Fax: (505) 296-32879
Email: noelsav@swcp.com**

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**MILDOS-AREA
RADIATION DOSES FROM
CAMECO RESOURCES
MARSLAND EXPANSION AREA
IN-SITU URANIUM RECOVERY OPERATION**

Appendix B5

September 24, 2013

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Appendix	Title	Radon Source	Weather Data	Waste Water Flow Rate
B5	MARST A-F	SATELLITE A-F	MEA	315

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JOINT FREQUENCY IN PERCENT, DIRECTION INDICATES WHERE WIND IS FROM FREQWS=0.11872,0.21958,0.27611,0.26217,0.08349,0.04013

MPH N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW TOTALS

STABILITY CLASS 1

1.5	0.1150	0.0260	0.0770	0.0770	0.0890	0.0770	0.1150	0.1660	0.1400	0.3060	0.1150	0.0770	0.1020	0.0890	0.0640	0.0510	1.6860
5.5	0.2670	0.1510	0.1860	0.1860	0.1860	0.3140	0.1980	0.2670	0.2560	0.3260	0.2560	0.4190	0.1400	0.1160	0.1980	0.2210	3.6870
10.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	0.3820	0.1770	0.2630	0.2630	0.2750	0.3910	0.3130	0.4330	0.3960	0.6320	0.3710	0.4960	0.2420	0.2050	0.2620	0.2720	5.3730

STABILITY CLASS 2

1.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0260	0.0130	0.0380	0.0380	0.0640	0.0000	0.0000	0.0000	0.0130	0.0000	0.0000	0.1920
5.5	0.0350	0.0230	0.0930	0.0350	0.0580	0.1160	0.1280	0.1280	0.0810	0.1980	0.0930	0.0930	0.0470	0.0470	0.0810	0.0230	1.2790
10.0	0.1860	0.1980	0.1630	0.1400	0.1280	0.1740	0.2440	0.1630	0.2440	0.2210	0.2330	0.2090	0.1160	0.1280	0.2210	0.2330	3.0010
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	0.2210	0.2210	0.2560	0.1750	0.1860	0.3160	0.3850	0.3290	0.3630	0.4830	0.3260	0.3020	0.1630	0.1880	0.3020	0.2560	4.4720

STABILITY CLASS 3

1.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0130	0.0130	0.0130	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0650
5.5	0.0120	0.0120	0.0470	0.0230	0.0700	0.0700	0.0700	0.0700	0.0930	0.0470	0.0700	0.0350	0.0470	0.0000	0.0230	0.0120	0.7010
10.0	0.6980	0.3490	0.2090	0.2560	0.2790	0.5230	0.4770	0.4190	0.3840	0.3950	0.4540	0.5120	0.3140	0.3020	0.4300	0.5120	6.5130
15.5	0.3720	0.1630	0.0930	0.1400	0.0930	0.1280	0.0700	0.1050	0.2210	0.1630	0.2330	0.1860	0.1400	0.2090	0.4070	0.3370	3.0600
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	1.0820	0.5240	0.3490	0.4190	0.4420	0.7210	0.6300	0.6070	0.7110	0.6310	0.7570	0.7330	0.5010	0.5110	0.8600	0.8610	10.3390

STABILITY CLASS 4

1.5	0.0260	0.0260	0.0000	0.0000	0.0000	0.0260	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0000	0.0130	0.0130	0.0260	0.2080
5.5	0.3020	0.1980	0.0810	0.1400	0.3020	0.4190	0.4650	0.3020	0.2210	0.1740	0.1160	0.1860	0.1400	0.0930	0.2790	0.7910	4.2090
10.0	1.2700	0.7440	0.4880	0.5000	0.8020	1.0470	1.3370	1.1860	0.9420	0.6860	0.7790	1.0470	0.7330	0.8260	1.2210	1.8140	15.4220
15.5	2.3400	1.2210	0.7680	0.5470	0.7680	0.5810	0.7680	1.5930	1.6750	0.9190	0.6630	1.3370	1.6860	2.3140	2.8720	3.1050	23.1570
21.5	0.6400	0.3370	0.0580	0.0350	0.0580	0.0810	0.0930	0.3950	0.5580	0.2330	0.1740	0.3950	0.5580	1.0120	2.2100	1.5120	8.3490
28.0	0.3840	0.1160	0.0120	0.0120	0.0000	0.0120	0.0000	0.1860	0.1050	0.0350	0.0350	0.1160	0.3140	0.5230	1.2090	0.9540	4.0130
ALL	4.9620	2.6420	1.4070	1.2340	1.9300	2.1660	2.6760	3.6750	3.5140	2.0600	1.7800	3.0940	3.4310	4.7810	7.8040	8.2020	55.3580

STABILITY CLASS 5

1.5	0.1280	0.0640	0.0000	0.0000	0.0260	0.0380	0.0640	0.0640	0.0260	0.0000	0.0380	0.0130	0.0130	0.0260	0.0380	0.0640	0.6020
5.5	0.1510	0.0930	0.0930	0.1160	0.1400	0.2330	0.1630	0.1740	0.1740	0.1050	0.1510	0.1740	0.1280	0.1400	0.2670	0.5810	2.8830
10.0	0.1630	0.0810	0.0930	0.1280	0.1050	0.0930	0.0810	0.1280	0.1280	0.1160	0.1980	0.2330	0.1630	0.1160	0.2560	0.5930	2.6750
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	0.4420	0.2380	0.1860	0.2440	0.2710	0.3640	0.3080	0.3660	0.3280	0.2210	0.3870	0.4200	0.3040	0.2820	0.5610	1.2380	6.1600

STABILITY CLASS 6

1.5	0.8160	0.6500	0.5610	0.4850	0.4210	0.4340	0.5610	0.4850	0.6380	0.5740	0.4460	0.5740	0.5230	0.5230	0.4460	0.9820	9.1190
5.5	0.9190	0.3720	0.2330	0.3490	0.4070	0.4300	0.5000	0.6400	0.5120	0.6160	0.5930	0.6630	0.3720	0.6400	0.7090	1.2440	9.1990
10.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21.5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ALL	1.7350	1.0220	0.7940	0.8340	0.8280	0.8640	1.0610	1.1250	1.1500	1.1900	1.0390	1.2370	0.8950	1.1630	1.1550	2.2260	18.3180

ALL	8.8240	4.8240	3.2550	3.1690	3.9320	4.8220	5.3730	6.5350	6.4620	5.2170	4.6600	6.2820	5.5360	7.1300	10.9440	13.0550	100.0200
-----	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	----------

-----INDIVIDUAL RECEPTOR LOCATION DATA, 31 LOCATIONS INPUT THIS RUN-----

I	LOCATION NAMES	X (KM)	Y (KM)	Z (M)	DIST (KM)	TYPE	I	LOCATION NAMES	X (KM)	Y (KM)	Z (M)	DIST (KM)	TYPE
1	Alliance	30.00	-45.40	-50.00	54.42	1	17	Residence 2	1.00	0.30	-4.00	1.04	1
2	Berea	21.50	-32.60	-50.00	39.05	1	18	Residence 3	-0.80	-1.90	-16.00	2.06	1
3	Chardon	22.30	35.80	-50.00	42.18	1	19	Residence 4	-0.40	-3.40	-31.00	3.42	1
4	Clinton	75.40	26.50	-50.00	79.92	1	20	Residence 5	1.90	-4.30	-36.00	4.70	1
5	Crawford	-12.10	20.80	-50.00	24.06	1	21	Residence 6	-4.70	1.86	22.00	5.05	1
6	Harrison	-50.50	22.50	-50.00	55.29	1	22	Residence 7	2.40	3.60	76.00	4.33	1
7	Hay Springs	47.10	18.80	-50.00	50.71	1	23	Residence 8	4.70	-4.40	-50.00	6.44	1
8	Hemmingford	14.30	-20.40	36.00	24.91	1	24	Unoccupied 1	-0.90	1.90	15.70	2.10	1
9	Marsland	-3.80	-6.10	-50.00	7.19	1	25	Unoccupied 2	2.00	2.80	69.00	3.44	1
10	Mitchell	-48.50	-60.00	-50.00	77.15	1	26	North Boundary #1	-1.30	5.10	34.70	5.26	1
11	Oelrichs	4.90	75.30	-50.00	75.46	1	27	East Boundary	1.70	0.00	-2.60	1.70	1
12	Rushville	66.00	22.00	-50.00	69.57	1	28	South Boundary	0.00	-0.60	0.50	0.60	1
13	Scottsbluff	-36.30	-68.90	-50.00	77.88	1	29	West Boundary	-0.70	0.00	12.20	0.70	1
14	Van Tassell	-67.50	21.00	49.00	70.69	1	30	Minatare	-22.40	-75.60	-41.40	78.85	1
15	Whitney	1.20	31.40	-50.00	31.42	1	31	North Boundary #2	-0.60	3.30	19.70	3.35	1
16	Residence 1	-0.90	-0.60	3.40	1.08	1							

MISCELLANEOUS INPUTABLE PARAMETER VALUES

DMM	DMA	TSTART	FFORI	FHAYI	FFORP	FHAYP	FPR(1)	FPR(2)	FPR(3)	ACTRAT
100.0	100.0	1.00	0.90	0.10	0.90	0.10	8700.00	4000.00	0.00	2.50

IPACT EQUALS 0,

JC EQUALS 1, 0, 0, 0, 0, 0, 1, 0, 0, 0

TIME STEP DATA... STEP NAMES LENGTH, YRS IFTODO
 1 5.00 1

XRHO EQUALS 1.5, 2.5, 3.5, 4.5, 7.5, 15.0, 25.0, 35.0, 45.0, 55.0, 65.0, 75.0,

HDP EQUALS 50.0

POPULATION DISTRIBUTION

KILOMETERS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
1.0- 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0- 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0- 4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.0- 5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0-10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0-30.0	0	0	0	0	0	0	993	0	0	0	0	0	0	0	0	1107
30.0-40.0	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40.0-50.0	0	5634	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50.0-60.0	0	0	0	652	0	0	0	9859	0	0	0	0	0	279	0	0
60.0-70.0	0	0	0	999	0	0	0	0	0	0	0	0	0	0	0	0
70.0-80.0	145	0	14	30	0	0	0	0	0	15542	1831	0	0	19	0	0
1.0-80.0	232	5634	14	1681	0	0	993	9859	0	15542	1831	0	0	298	0	1107

TOTAL 1-80 KM POPULATION IS 37191 PERSONS

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

SUMMARY PRINT OF POPULATION DOSES COMPUTED FOR TSTEP 1--DOSES SHOWN ARE ANNUAL POPULATION DOSE COMMITMENTS, PERSON-REM PER YEAR

DOSES RECEIVED BY PEOPLE WITHIN 80 KILOMETERS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	2.847E-01	2.306E+00	3.725E-02	1.729E+00	8.315E-01	1.188E+02
GROUND	1.654E-02	1.654E-02	1.654E-02	1.654E-02	1.654E-02	1.654E-02
CLOUD	1.003E+00	1.003E+00	1.003E+00	1.003E+00	1.003E+00	1.003E+00
VEG. ING	1.328E+00	1.535E+01	1.328E+00	4.563E+00	3.716E+00	1.328E+00
MEAT ING	9.240E-02	1.068E+00	9.240E-02	3.173E-01	2.585E-01	9.240E-02
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	2.725E+00	1.974E+01	2.477E+00	7.628E+00	5.826E+00	1.212E+02

DOSES RECEIVED BY PEOPLE BEYOND 80 KILOMETERS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GROUND	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CLOUD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
VEG. ING	2.125E+01	2.455E+02	2.125E+01	7.298E+01	5.945E+01	2.125E+01
MEAT ING	1.851E+00	2.139E+01	1.851E+00	6.357E+00	5.178E+00	1.851E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	2.310E+01	2.669E+02	2.310E+01	7.934E+01	6.462E+01	2.310E+01

TOTAL DOSES COMPUTED OVER ALL POPULATIONS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	2.847E-01	2.306E+00	3.725E-02	1.729E+00	8.315E-01	1.188E+02
GROUND	1.654E-02	1.654E-02	1.654E-02	1.654E-02	1.654E-02	1.654E-02
CLOUD	1.003E+00	1.003E+00	1.003E+00	1.003E+00	1.003E+00	1.003E+00
VEG. ING	2.258E+01	2.609E+02	2.258E+01	7.754E+01	6.316E+01	2.258E+01
MEAT ING	1.943E+00	2.246E+01	1.943E+00	6.675E+00	5.437E+00	1.943E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS	2.583E+01	2.867E+02	2.558E+01	8.697E+01	7.045E+01	1.443E+02

NUMBER 1 NAME=Alliance

X= 30.0KM, Y= -45.4KM, Z= -50.0M, DIST= 54.4KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.66E-01	7.39E-02	3.56E-02	2.53E-01	1.18E-01	3.71E+00
CHILD	TOTALS	2.62E-01	1.04E-01	4.52E-02	1.42E-01	8.16E-02	3.71E+00
TEENAGE	TOTALS	2.64E-01	1.78E-01	5.18E-02	9.32E-02	6.76E-02	3.71E+00
ADULT	TOTALS	2.66E-01	1.74E-01	6.04E-02	9.49E-02	7.13E-02	3.71E+00

NUMBER 2 NAME=Berea

X= 21.5KM, Y= -32.6KM, Z= -50.0M, DIST= 39.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	3.70E-01	8.29E-02	4.59E-02	2.55E-01	1.25E-01	5.28E+00
CHILD	TOTALS	3.66E-01	1.12E-01	5.53E-02	1.48E-01	9.03E-02	5.28E+00
TEENAGE	TOTALS	3.69E-01	1.83E-01	6.17E-02	1.02E-01	7.69E-02	5.28E+00
ADULT	TOTALS	3.70E-01	1.79E-01	6.99E-02	1.03E-01	8.04E-02	5.28E+00

NUMBER 3 NAME=Chardon

X= 22.3KM, Y= 35.8KM, Z= -50.0M, DIST= 42.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	2.14E-01	6.45E-02	2.94E-02	2.28E-01	1.04E-01	2.96E+00
CHILD	TOTALS	2.11E-01	9.19E-02	3.82E-02	1.27E-01	7.15E-02	2.96E+00
TEENAGE	TOTALS	2.13E-01	1.59E-01	4.43E-02	8.21E-02	5.87E-02	2.96E+00
ADULT	TOTALS	2.15E-01	1.56E-01	5.21E-02	8.37E-02	6.21E-02	2.96E+00

NUMBER 4 NAME=Clinton

X= 75.4KM, Y= 26.5KM, Z= -50.0M, DIST= 79.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.10E-01	4.48E-02	1.64E-02	1.79E-01	7.75E-02	1.46E+00
CHILD	TOTALS	1.07E-01	6.73E-02	2.35E-02	9.56E-02	5.06E-02	1.46E+00
TEENAGE	TOTALS	1.09E-01	1.22E-01	2.84E-02	5.93E-02	4.01E-02	1.46E+00
ADULT	TOTALS	1.10E-01	1.20E-01	3.48E-02	6.05E-02	4.29E-02	1.46E+00

NUMBER 5 NAME=Crawford

X= -12.1KM, Y= 20.8KM, Z= -50.0M, DIST= 24.1KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	4.05E-01	7.77E-02	4.77E-02	2.17E-01	1.12E-01	5.87E+00
CHILD	TOTALS	4.02E-01	1.01E-01	5.53E-02	1.31E-01	8.37E-02	5.87E+00
TEENAGE	TOTALS	4.04E-01	1.58E-01	6.05E-02	9.27E-02	7.28E-02	5.87E+00
ADULT	TOTALS	4.05E-01	1.56E-01	6.72E-02	9.41E-02	7.57E-02	5.87E+00

NUMBER 6 NAME=Harrison

X= -50.5KM, Y= 22.5KM, Z= -50.0M, DIST= 55.3KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.44E-01	4.75E-02	2.05E-02	1.74E-01	7.84E-02	1.97E+00
CHILD	TOTALS	1.42E-01	6.88E-02	2.73E-02	9.56E-02	5.30E-02	1.97E+00
TEENAGE	TOTALS	1.43E-01	1.21E-01	3.19E-02	6.12E-02	4.31E-02	1.97E+00
ADULT	TOTALS	1.44E-01	1.18E-01	3.80E-02	6.24E-02	4.57E-02	1.97E+00

NUMBER 7 NAME=Hay Springs X= 47.1KM, Y= 18.8KM, Z= -50.0M, DIST= 50.7KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	1.77E-01	5.34E-02	2.45E-02	1.89E-01	8.64E-02	2.45E+00
CHILD	TOTALS	1.75E-01	7.61E-02	3.17E-02	1.05E-01	5.92E-02	2.45E+00
TEENAGE	TOTALS	1.77E-01	1.32E-01	3.67E-02	6.80E-02	4.86E-02	2.45E+00
ADULT	TOTALS	1.78E-01	1.29E-01	4.32E-02	6.93E-02	5.15E-02	2.45E+00

NUMBER 8 NAME=Hemmingford X= 14.3KM, Y= -20.4KM, Z= 36.0M, DIST= 24.9KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	7.65E-01	1.50E-01	8.85E-02	4.34E-01	2.19E-01	1.11E+01
CHILD	TOTALS	7.59E-01	1.97E-01	1.04E-01	2.58E-01	1.62E-01	1.11E+01
TEENAGE	TOTALS	7.63E-01	3.14E-01	1.15E-01	1.80E-01	1.40E-01	1.11E+01
ADULT	TOTALS	7.65E-01	3.09E-01	1.28E-01	1.83E-01	1.46E-01	1.11E+01

METSET:

DATA: MarSTA-F.MIL

09/18/13

TIME STEP NUMBER 1,

DURATION IN YRS IS... 5.0

NUMBER 9 NAME=Marsland

X= -3.8KM, Y= -6.1KM, Z= -50.0M, DIST= 7.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	7.05E-01	5.56E-02	4.66E-02	9.72E-02	6.57E-02	1.10E+01
CHILD	TOTALS	7.04E-01	6.25E-02	4.88E-02	7.13E-02	5.73E-02	1.10E+01
TEENAGE	TOTALS	7.04E-01	7.96E-02	5.04E-02	6.00E-02	5.41E-02	1.10E+01
ADULT	TOTALS	7.05E-01	7.88E-02	5.24E-02	6.04E-02	5.49E-02	1.10E+01

NUMBER 10 NAME=Mitchell

X= -48.5KM, Y= -60.0KM, Z= -50.0M, DIST= 77.2KM, IRTYPE= 1

40CFR190 ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEENAGE	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADULT	TOTALS	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL ANNUAL DOSE COMMITMENTS COMPUTED FOR THIS LOCATION, MREM/YR

AGE	PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INFANT	TOTALS	8.22E-02	3.81E-02	1.26E-02	1.58E-01	6.73E-02	1.07E+00
CHILD	TOTALS	7.99E-02	5.82E-02	1.90E-02	8.35E-02	4.32E-02	1.07E+00
TEENAGE	TOTALS	8.14E-02	1.07E-01	2.33E-02	5.10E-02	3.39E-02	1.07E+00
ADULT	TOTALS	8.23E-02	1.05E-01	2.91E-02	5.21E-02	3.63E-02	1.07E+00