

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	1.31E-01	5.62E-02	1.97E-02	2.28E-01	9.81E-02	1.72E+00
CHILD	TOTALS	1.27E-01	8.50E-02	2.88E-02	1.21E-01	6.36E-02	1.72E+00
TEENAGE	TOTALS	1.30E-01	1.56E-01	3.51E-02	7.47E-02	5.02E-02	1.72E+00
ADULT	TOTALS	1.31E-01	1.52E-01	4.33E-02	7.64E-02	5.37E-02	1.72E+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	1.27E-01	4.70E-02	1.84E-02	1.81E-01	7.97E-02	1.71E+00
CHILD	TOTALS	1.24E-01	6.95E-02	2.56E-02	9.79E-02	5.28E-02	1.71E+00
TEENAGE	TOTALS	1.26E-01	1.25E-01	3.05E-02	6.15E-02	4.23E-02	1.71E+00
ADULT	TOTALS	1.27E-01	1.22E-01	3.69E-02	6.28E-02	4.51E-02	1.71E+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	9.30E-02	4.21E-02	1.42E-02	1.74E-01	7.42E-02	1.21E+00
CHILD	TOTALS	9.05E-02	6.42E-02	2.12E-02	9.20E-02	4.78E-02	1.21E+00
TEENAGE	TOTALS	9.21E-02	1.18E-01	2.59E-02	5.63E-02	3.75E-02	1.21E+00
ADULT	TOTALS	9.32E-02	1.16E-01	3.22E-02	5.76E-02	4.02E-02	1.21E+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	1.30E-01	5.46E-02	1.95E-02	2.20E-01	9.48E-02	1.72E+00
CHILD	TOTALS	1.27E-01	8.22E-02	2.82E-02	1.17E-01	6.16E-02	1.72E+00
TEENAGE	TOTALS	1.29E-01	1.50E-01	3.43E-02	7.23E-02	4.88E-02	1.72E+00
ADULT	TOTALS	1.30E-01	1.47E-01	4.22E-02	7.39E-02	5.22E-02	1.72E+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	3.08E-01	7.28E-02	3.88E-02	2.31E-01	1.11E-01	4.38E+00
CHILD	TOTALS	3.05E-01	9.93E-02	4.74E-02	1.33E-01	7.96E-02	4.38E+00
TEENAGE	TOTALS	3.07E-01	1.64E-01	5.33E-02	8.99E-02	6.72E-02	4.38E+00
ADULT	TOTALS	3.08E-01	1.61E-01	6.08E-02	9.14E-02	7.05E-02	4.38E+00

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	9.32E+00	1.03E-01	1.01E-01	1.09E-01	1.04E-01	1.54E+02
CHILD	TOTALS	9.32E+00	1.04E-01	1.02E-01	1.05E-01	1.03E-01	1.54E+02
TEENAGE	TOTALS	9.32E+00	1.07E-01	1.02E-01	1.04E-01	1.03E-01	1.54E+02
ADULT	TOTALS	9.32E+00	1.07E-01	1.02E-01	1.04E-01	1.03E-01	1.54E+02

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	1.16E+01	6.30E-02	6.24E-02	6.59E-02	6.37E-02	1.93E+02
CHILD	TOTALS	1.16E+01	6.35E-02	6.26E-02	6.41E-02	6.32E-02	1.93E+02
TEENAGE	TOTALS	1.16E+01	6.47E-02	6.27E-02	6.33E-02	6.29E-02	1.93E+02
ADULT	TOTALS	1.16E+01	6.46E-02	6.28E-02	6.34E-02	6.30E-02	1.93E+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	3.63E+00	9.30E-02	8.95E-02	1.09E-01	9.69E-02	5.90E+01
CHILD	TOTALS	3.63E+00	9.57E-02	9.03E-02	9.91E-02	9.37E-02	5.90E+01
TEENAGE	TOTALS	3.63E+00	1.02E-01	9.10E-02	9.47E-02	9.24E-02	5.90E+01
ADULT	TOTALS	3.63E+00	1.02E-01	9.17E-02	9.49E-02	9.27E-02	5.90E+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	2.65E+00	1.08E-01	1.00E-01	1.43E-01	1.16E-01	4.26E+01
CHILD	TOTALS	2.65E+00	1.14E-01	1.02E-01	1.21E-01	1.09E-01	4.26E+01
TEENAGE	TOTALS	2.65E+00	1.28E-01	1.03E-01	1.11E-01	1.06E-01	4.26E+01
ADULT	TOTALS	2.66E+00	1.27E-01	1.05E-01	1.12E-01	1.07E-01	4.26E+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	2.96E+00	1.34E-01	1.22E-01	1.91E-01	1.48E-01	4.74E+01
CHILD	TOTALS	2.96E+00	1.44E-01	1.25E-01	1.56E-01	1.37E-01	4.74E+01
TEENAGE	TOTALS	2.96E+00	1.67E-01	1.27E-01	1.41E-01	1.32E-01	4.74E+01
ADULT	TOTALS	2.96E+00	1.66E-01	1.30E-01	1.41E-01	1.34E-01	4.74E+01

METSET:

DATA: MarSTA-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	2.89E+00	2.63E-01	2.29E-01	4.18E-01	3.00E-01	4.44E+01
CHILD	TOTALS	2.88E+00	2.89E-01	2.37E-01	3.21E-01	2.69E-01	4.44E+01
TEENAGE	TOTALS	2.88E+00	3.53E-01	2.43E-01	2.79E-01	2.57E-01	4.44E+01
ADULT	TOTALS	2.89E+00	3.49E-01	2.51E-01	2.81E-01	2.60E-01	4.44E+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	4.23E+00	3.67E-01	3.28E-01	5.49E-01	4.11E-01	6.52E+01
CHILD	TOTALS	4.23E+00	3.97E-01	3.38E-01	4.36E-01	3.75E-01	6.52E+01
TEENAGE	TOTALS	4.23E+00	4.72E-01	3.45E-01	3.87E-01	3.61E-01	6.52E+01
ADULT	TOTALS	4.23E+00	4.69E-01	3.53E-01	3.88E-01	3.64E-01	6.52E+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	1.39E+00	6.22E-02	5.53E-02	9.45E-02	7.01E-02	2.22E+01
CHILD	TOTALS	1.39E+00	6.77E-02	5.71E-02	7.45E-02	6.36E-02	2.22E+01
TEENAGE	TOTALS	1.39E+00	8.09E-02	5.83E-02	6.57E-02	6.11E-02	2.22E+01
ADULT	TOTALS	1.39E+00	8.03E-02	5.98E-02	6.60E-02	6.18E-02	2.22E+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	1.08E+01	4.10E-01	3.94E-01	4.88E-01	4.29E-01	1.73E+02
CHILD	TOTALS	1.08E+01	4.23E-01	3.98E-01	4.40E-01	4.14E-01	1.73E+02
TEENAGE	TOTALS	1.08E+01	4.56E-01	4.01E-01	4.19E-01	4.08E-01	1.73E+02
ADULT	TOTALS	1.08E+01	4.54E-01	4.04E-01	4.20E-01	4.09E-01	1.73E+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	5.67E+00	4.07E-01	3.74E-01	5.58E-01	4.44E-01	8.84E+01
CHILD	TOTALS	5.66E+00	4.32E-01	3.83E-01	4.64E-01	4.13E-01	8.84E+01
TEENAGE	TOTALS	5.67E+00	4.94E-01	3.88E-01	4.23E-01	4.02E-01	8.84E+01
ADULT	TOTALS	5.67E+00	4.91E-01	3.96E-01	4.25E-01	4.05E-01	8.84E+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	3.64E+00	3.44E-01	2.98E-01	5.57E-01	3.96E-01	5.58E+01
CHILD	TOTALS	3.63E+00	3.80E-01	3.09E-01	4.25E-01	3.53E-01	5.58E+01
TEENAGE	TOTALS	3.64E+00	4.67E-01	3.17E-01	3.67E-01	3.36E-01	5.58E+01
ADULT	TOTALS	3.64E+00	4.63E-01	3.28E-01	3.69E-01	3.41E-01	5.58E+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	6.96E+00	1.46E-01	1.41E-01	1.65E-01	1.50E-01	1.14E+02
CHILD	TOTALS	6.96E+00	1.49E-01	1.43E-01	1.53E-01	1.46E-01	1.14E+02
TEENAGE	TOTALS	6.96E+00	1.57E-01	1.43E-01	1.48E-01	1.45E-01	1.14E+02
ADULT	TOTALS	6.96E+00	1.57E-01	1.44E-01	1.48E-01	1.45E-01	1.14E+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	3.59E+01	6.91E-02	6.89E-02	6.99E-02	6.93E-02	5.97E+02
CHILD	TOTALS	3.59E+01	6.92E-02	6.89E-02	6.94E-02	6.91E-02	5.97E+02
TEENAGE	TOTALS	3.59E+01	6.96E-02	6.90E-02	6.92E-02	6.90E-02	5.97E+02
ADULT	TOTALS	3.59E+01	6.95E-02	6.90E-02	6.92E-02	6.91E-02	5.97E+02

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	2.78E+01	1.37E-01	1.36E-01	1.41E-01	1.38E-01	4.61E+02
CHILD	TOTALS	2.78E+01	1.38E-01	1.37E-01	1.39E-01	1.37E-01	4.61E+02
TEENAGE	TOTALS	2.78E+01	1.39E-01	1.37E-01	1.38E-01	1.37E-01	4.61E+02
ADULT	TOTALS	2.78E+01	1.39E-01	1.37E-01	1.38E-01	1.37E-01	4.61E+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	1.18E-01	5.26E-02	1.80E-02	2.16E-01	9.24E-02	1.54E+00
CHILD	TOTALS	1.15E-01	8.00E-02	2.66E-02	1.14E-01	5.96E-02	1.54E+00
TEENAGE	TOTALS	1.17E-01	1.47E-01	3.25E-02	7.02E-02	4.69E-02	1.54E+00
ADULT	TOTALS	1.18E-01	1.44E-01	4.03E-02	7.17E-02	5.03E-02	1.54E+00

NUMBER 31 NAME=North Boundary #2 X= -0.6KM, Y= 3.3KM, Z= 19.7M, 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	6.41E+00	4.31E-01	3.98E-01	5.85E-01	4.68E-01	1.00E+02
CHILD	TOTALS	6.41E+00	4.57E-01	4.06E-01	4.89E-01	4.38E-01	1.00E+02
TEENAGE	TOTALS	6.41E+00	5.20E-01	4.12E-01	4.48E-01	4.26E-01	1.00E+02
ADULT	TOTALS	6.41E+00	5.17E-01	4.19E-01	4.49E-01	4.29E-01	1.00E+02

Program execution time = 0.04 seconds

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

Appendix B6

September 24, 2013

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Appendix	Title	Radon Source	Weather Data	Waste Water Flow Rate
B6	MAROCMU	MU 1-5 OCCUPATIONAL	MEA	315

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METSET: DATA: MAROCMU.MIL 08/16/13

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

-----INDIVIDUAL RECEPTOR LOCATION DATA, 17 LOCATIONS INPUT THIS RUN-----

1	LOCATION NAMES	X(KM)	Y(KM)	Z(M)	DIST(KM)	TYPE	1	LOCATION NAMES	X(KM)	Y(KM)	Z(M)	DIST(KM)	TYPE
1	East Boundary	1.40	0.30	-20.00	1.43	1	10	MU-C	1.84	-2.33	-25.00	2.97	1
2	South Boundary	0.00	-0.50	13.00	0.50	1	11	MU-D	2.52	-3.56	-36.00	4.36	1
3	West Boundary	-0.70	0.00	49.00	0.70	1	12	MU-E	2.84	-3.98	-42.00	4.89	1
4	MU-1	-0.46	2.33	27.00	2.37	1	13	MU-F	3.00	-4.30	-47.00	5.24	1
5	MU-2	-0.45	1.65	16.00	1.71	1	14	MU-4	0.54	0.13	-4.00	0.56	1
6	MU-3	-0.05	0.95	13.00	0.95	1	15	Satellite	0.00	0.00	0.00	0.00	1
7	MU-5	0.94	-0.45	-15.00	1.04	1	16	N Boundary #1	-1.30	5.10	35.00	5.26	1
8	MU-A	-0.76	2.88	45.00	2.98	1	17	N Boundary #2	-0.50	3.30	20.00	3.34	1
9	MU-B	1.22	-1.02	-15.00	1.59	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	87000.00	4000.00	0.00	2.50

IPACT EQUALS 0, 0, 0, 0, 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

| N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
 KILOMETERS | 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
2.0-3.0	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
4.0-5.0	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
10.0-20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20.0-30.0	0	0	0	0	0	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
40.0-50.0	0	5634	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	279	0	0
60.0-70.0	0	0	0	999	0	0	0	0	0	0	0	0	0	0	0
70.0-80.0	145	0	14	30	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
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TOTAL 1-80 KM POPULATION IS 37191 PERSONS

NUMBER OF SOURCES= 5

NO.	X	Y	Z	KM	M	KM2	CI/YEAR				PSIZE M/SEC			SOURCE NAME
							U-238	Th-230	Ra-226	Pb-210	Rn-222	ID	SET	
1	-0.56	2.23	27.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E+03	1001	1	0.00E+00	MU-1
2	-0.55	1.65	16.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+03	1002	1	0.00E+00	MU-2
3	-0.15	0.95	13.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E+03	1003	1	0.00E+00	MU-3
4	0.44	0.13	-4.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E+03	1004	1	0.00E+00	MU-4
5	0.84	-0.45	-15.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+03	1005	1	0.00E+00	MU-5

INPUT TAILS ACTIVITIES, PCI/G AMAD AND FRACTIONAL DISTRIBUTION
 SET URANIUM THORIUM RADIUM LEAD SET 1.5 3.0 7.7 54.0

	URANIUM	THORIUM	RADIUM	LEAD	SET	1.5	3.0	7.7	54.0
1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1	0.000	1.000	0.000	0.000
2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2	1.000	0.000	0.000	0.000
3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3	0.000	0.000	0.300	0.700

PARTICULATE SOURCE STRENGTH MULTIPLIERS BY TIME STEP, 1 TIME STEP(S) USED FOR THIS RUN

SOURCE NUMBER	TSTEP 1 5.00YRS	TSTEP 2 5.00YRS	TSTEP 3 5.00YRS	TSTEP 4 5.00YRS	TSTEP 5 5.00YRS	TSTEP 6 5.00YRS	TSTEP 7 5.00YRS	TSTEP 8 5.00YRS	TSTEP 9 5.00YRS	TSTEP 10 5.00YRS
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1	1.000E+00
2	1.000E+00
3	1.000E+00
4	1.000E+00
5	1.000E+00

RADON SOURCE STRENGTH MULTIPLIERS BY TIME STEP, 1 TIME STEP(S) USED FOR THIS RUN

SOURCE NUMBER	TSTEP 1 5.00YRS	TSTEP 2 5.00YRS	TSTEP 3 5.00YRS	TSTEP 4 5.00YRS	TSTEP 5 5.00YRS	TSTEP 6 5.00YRS	TSTEP 7 5.00YRS	TSTEP 8 5.00YRS	TSTEP 9 5.00YRS	TSTEP 10 5.00YRS
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1	1.000E+00
2	1.000E+00
3	1.000E+00
4	1.000E+00
5	1.000E+00

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.	3.782E-01	3.063E+00	4.945E-02	2.297E+00	1.105E+00	1.457E+02
GROUND	2.061E-02	2.061E-02	2.061E-02	2.061E-02	2.061E-02	2.061E-02
CLOUD	1.248E+00	1.248E+00	1.248E+00	1.248E+00	1.248E+00	1.248E+00
VEG. ING	1.776E+00	2.052E+01	1.776E+00	6.099E+00	4.967E+00	1.776E+00
MEAT ING	1.235E-01	1.427E+00	1.235E-01	4.242E-01	3.455E-01	1.235E-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	3.546E+00	2.628E+01	3.217E+00	1.009E+01	7.686E+00	1.489E+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	3.000E+02	3.467E+03	3.000E+02	1.030E+03	8.393E+02	3.000E+02
MEAT ING	2.474E+00	2.859E+01	2.474E+00	8.497E+00	6.921E+00	2.474E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	7.234E+01	9.864E+02	1.644E+01	7.234E+01	7.234E+01	4.603E+02
TOTALS	3.748E+02	4.482E+03	3.189E+02	1.111E+03	9.185E+02	7.628E+02

TOTAL DOSES COMPUTED OVER ALL POPULATIONS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	3.782E-01	3.063E+00	4.945E-02	2.297E+00	1.105E+00	1.457E+02
GROUND	2.061E-02	2.061E-02	2.061E-02	2.061E-02	2.061E-02	2.061E-02
CLOUD	1.248E+00	1.248E+00	1.248E+00	1.248E+00	1.248E+00	1.248E+00
VEG. ING	3.018E+02	3.487E+03	3.018E+02	1.036E+03	8.442E+02	3.018E+02
MEAT ING	2.598E+00	3.002E+01	2.598E+00	8.921E+00	7.267E+00	2.598E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	7.234E+01	9.864E+02	1.644E+01	7.234E+01	7.234E+01	4.603E+02
TOTALS	3.784E+02	4.508E+03	3.221E+02	1.121E+03	9.262E+02	9.117E+02

NUMBER 1 NAME=East Boundary X= 1.4KM, Y= 0.3KM, Z= -20.0M, DIST= 1.4KM, 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	1.78E+01	3.32E-01	3.24E-01	3.71E-01	3.42E-01	2.91E+02
CHILD	TOTALS	1.78E+01	3.39E-01	3.26E-01	3.47E-01	3.34E-01	2.91E+02
TEENAGE	TOTALS	1.78E+01	3.55E-01	3.27E-01	3.36E-01	3.31E-01	2.91E+02
ADULT	TOTALS	1.78E+01	3.54E-01	3.29E-01	3.37E-01	3.32E-01	2.91E+02

NUMBER 2 NAME=South Boundary X= 0.0KM, Y= -0.5KM, Z= 13.0M, DIST= 0.5KM, 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	3.73E+01	9.75E-01	9.40E-01	1.13E+00	1.01E+00	6.07E+02
CHILD	TOTALS	3.73E+01	1.00E+00	9.49E-01	1.04E+00	9.82E-01	6.07E+02
TEENAGE	TOTALS	3.73E+01	1.07E+00	9.55E-01	9.92E-01	9.69E-01	6.07E+02
ADULT	TOTALS	3.73E+01	1.06E+00	9.63E-01	9.94E-01	9.73E-01	6.07E+02

NUMBER 3 NAME=West Boundary X= -0.7KM, Y= 0.0KM, Z= 49.0M, 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	2.56E+01	8.09E-01	7.84E-01	9.26E-01	8.38E-01	4.15E+02
CHILD	TOTALS	2.56E+01	8.29E-01	7.91E-01	8.54E-01	8.14E-01	4.15E+02
TEENAGE	TOTALS	2.56E+01	8.77E-01	7.95E-01	8.22E-01	8.05E-01	4.15E+02
ADULT	TOTALS	2.56E+01	8.75E-01	8.01E-01	8.23E-01	8.08E-01	4.15E+02

NUMBER 4 NAME=MU-1 X= -0.5KM, Y= 2.3KM, Z= 27.0M, DIST= 2.4KM, 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	3.98E+02	1.01E+00	9.94E-01	1.09E+00	1.03E+00	6.62E+03
CHILD	TOTALS	3.98E+02	1.02E+00	9.98E-01	1.04E+00	1.01E+00	6.62E+03
TEENAGE	TOTALS	3.98E+02	1.06E+00	1.00E+00	1.02E+00	1.01E+00	6.62E+03
ADULT	TOTALS	3.98E+02	1.06E+00	1.01E+00	1.02E+00	1.01E+00	6.62E+03

NUMBER 5 NAME=MU-2 X= -0.4KM, Y= 1.6KM, Z= 16.0M, 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	6.69E+02	1.09E+00	1.08E+00	1.15E+00	1.11E+00	1.11E+04
CHILD	TOTALS	6.69E+02	1.10E+00	1.09E+00	1.12E+00	1.10E+00	1.11E+04
TEENAGE	TOTALS	6.69E+02	1.13E+00	1.09E+00	1.10E+00	1.09E+00	1.11E+04
ADULT	TOTALS	6.69E+02	1.13E+00	1.09E+00	1.10E+00	1.09E+00	1.11E+04

NUMBER 6 NAME=MU-3 X= -0.1KM, Y= 0.9KM, Z= 13.0M, 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	4.08E+02	1.16E+00	1.15E+00	1.23E+00	1.18E+00	6.78E+03
CHILD	TOTALS	4.08E+02	1.17E+00	1.15E+00	1.19E+00	1.17E+00	6.78E+03
TEENAGE	TOTALS	4.08E+02	1.20E+00	1.15E+00	1.17E+00	1.16E+00	6.78E+03
ADULT	TOTALS	4.08E+02	1.20E+00	1.16E+00	1.17E+00	1.16E+00	6.78E+03

METSET: DATA: MAROCMU.MIL 08/16/13
 TIME STEP NUMBER 1, DURATION IN YRS IS... 5.0

NUMBER 7 NAME=MU-5 X= 0.9KM, Y= -0.4KM, Z= -15.0M, 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	3.96E+02	7.13E-01	6.98E-01	7.83E-01	7.30E-01	6.59E+03
CHILD	TOTALS	3.96E+02	7.25E-01	7.02E-01	7.40E-01	7.16E-01	6.59E+03
TEENAGE	TOTALS	3.96E+02	7.54E-01	7.05E-01	7.21E-01	7.11E-01	6.59E+03
ADULT	TOTALS	3.96E+02	7.52E-01	7.08E-01	7.22E-01	7.12E-01	6.59E+03

NUMBER 8 NAME=MU-A X= -0.8KM, Y= 2.9KM, Z= 45.0M, DIST= 3.0KM, 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	3.92E+01	7.37E-01	7.12E-01	8.52E-01	7.65E-01	6.43E+02
CHILD	TOTALS	3.92E+01	7.56E-01	7.18E-01	7.81E-01	7.42E-01	6.43E+02
TEENAGE	TOTALS	3.92E+01	8.04E-01	7.22E-01	7.49E-01	7.33E-01	6.43E+02
ADULT	TOTALS	3.92E+01	8.01E-01	7.28E-01	7.50E-01	7.35E-01	6.43E+02

NUMBER 9 NAME=MU-B X= 1.2KM, Y= -1.0KM, Z= -15.0M, DIST= 1.6KM, 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	3.87E+01	7.14E-01	6.87E-01	8.38E-01	7.44E-01	6.34E+02
CHILD	TOTALS	3.87E+01	7.35E-01	6.94E-01	7.61E-01	7.19E-01	6.34E+02
TEENAGE	TOTALS	3.87E+01	7.86E-01	6.99E-01	7.28E-01	7.10E-01	6.34E+02
ADULT	TOTALS	3.87E+01	7.83E-01	7.05E-01	7.29E-01	7.12E-01	6.34E+02

NUMBER 10 NAME=MU-C X= 1.8KM, Y= -2.3KM, Z= -25.0M, DIST= 3.0KM, 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	1.01E+01	5.58E-01	5.16E-01	7.53E-01	6.06E-01	1.60E+02
CHILD	TOTALS	1.01E+01	5.91E-01	5.27E-01	6.32E-01	5.67E-01	1.60E+02
TEENAGE	TOTALS	1.01E+01	6.71E-01	5.34E-01	5.79E-01	5.52E-01	1.60E+02
ADULT	TOTALS	1.01E+01	6.67E-01	5.44E-01	5.81E-01	5.56E-01	1.60E+02

NUMBER 11 NAME=MU-D X= 2.5KM, Y= -3.6KM, Z= -36.0M, DIST= 4.4KM, 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	5.33E+00	3.96E-01	3.51E-01	6.03E-01	4.46E-01	8.31E+01
CHILD	TOTALS	5.32E+00	4.31E-01	3.62E-01	4.74E-01	4.05E-01	8.31E+01
TEENAGE	TOTALS	5.32E+00	5.16E-01	3.70E-01	4.18E-01	3.89E-01	8.31E+01
ADULT	TOTALS	5.33E+00	5.12E-01	3.80E-01	4.20E-01	3.93E-01	8.31E+01

NUMBER 12 NAME=MU-E X= 2.8KM, Y= -4.0KM, Z= -42.0M, DIST= 4.9KM, 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	4.27E+00	3.28E-01	2.87E-01	5.17E-01	3.74E-01	6.64E+01
CHILD	TOTALS	4.26E+00	3.60E-01	2.98E-01	4.00E-01	3.36E-01	6.64E+01
TEENAGE	TOTALS	4.27E+00	4.38E-01	3.05E-01	3.48E-01	3.21E-01	6.64E+01
ADULT	TOTALS	4.27E+00	4.34E-01	3.14E-01	3.50E-01	3.25E-01	6.64E+01

NUMBER 13 NAME=MU-F X= 3.0KM, Y= -4.3KM, Z= -47.0M, DIST= 5.2KM, 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	3.72E+00	2.88E-01	2.51E-01	4.64E-01	3.31E-01	5.78E+01
CHILD	TOTALS	3.71E+00	3.18E-01	2.60E-01	3.55E-01	2.96E-01	5.78E+01
TEENAGE	TOTALS	3.71E+00	3.90E-01	2.67E-01	3.07E-01	2.82E-01	5.78E+01
ADULT	TOTALS	3.72E+00	3.87E-01	2.75E-01	3.09E-01	2.86E-01	5.78E+01

NUMBER 14 NAME=MU-4 X= 0.5KM, Y= 0.1KM, Z= -4.0M, 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	5.05E+02	9.25E-01	9.10E-01	9.92E-01	9.41E-01	8.40E+03
CHILD	TOTALS	5.05E+02	9.36E-01	9.14E-01	9.50E-01	9.28E-01	8.40E+03
TEENAGE	TOTALS	5.05E+02	9.63E-01	9.17E-01	9.32E-01	9.22E-01	8.40E+03
ADULT	TOTALS	5.05E+02	9.62E-01	9.20E-01	9.33E-01	9.24E-01	8.40E+03

NUMBER 15 NAME=Satellite X= 0.0KM, Y= 0.0KM, Z= 0.0M, DIST= 0.0KM, 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	5.66E+01	8.28E-01	8.09E-01	9.19E-01	8.50E-01	9.30E+02
CHILD	TOTALS	5.66E+01	8.43E-01	8.14E-01	8.63E-01	8.32E-01	9.30E+02
TEENAGE	TOTALS	5.66E+01	8.81E-01	8.17E-01	8.38E-01	8.25E-01	9.30E+02
ADULT	TOTALS	5.66E+01	8.79E-01	8.21E-01	8.39E-01	8.27E-01	9.30E+02

NUMBER 16 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	6.55E+00	5.15E-01	4.64E-01	7.51E-01	5.72E-01	1.02E+02
CHILD	TOTALS	6.55E+00	5.55E-01	4.77E-01	6.05E-01	5.25E-01	1.02E+02
TEENAGE	TOTALS	6.55E+00	6.52E-01	4.86E-01	5.41E-01	5.07E-01	1.02E+02
ADULT	TOTALS	6.55E+00	6.47E-01	4.97E-01	5.43E-01	5.12E-01	1.02E+02

REGION: Marsland MU1-5 Occupati CODE: MILDOS-AREA (02/12) PAGE 15
METSET: DATA: MAROCMU.MIL 08/16/13
TIME STEP NUMBER 1, DURATION IN YRS IS... 5.0

NUMBER 17 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	2.05E+01	6.97E-01	6.66E-01	8.40E-01	7.32E-01	3.31E+02
CHILD	TOTALS	2.05E+01	7.21E-01	6.73E-01	7.51E-01	7.03E-01	3.31E+02
TEENAGE	TOTALS	2.05E+01	7.80E-01	6.79E-01	7.12E-01	6.92E-01	3.31E+02
ADULT	TOTALS	2.05E+01	7.77E-01	6.86E-01	7.13E-01	6.95E-01	3.31E+02

Program execution time = 0.37 seconds

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

Appendix B7

September 24, 2013

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Appendix	Title	Radon Source	Weather Data	Waste Water Flow Rate
B7	MAROCST	SATELLITE 1-5 OCCUPATIONAL	MEA	315

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-----INDIVIDUAL RECEPTOR LOCATION DATA, 17 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	East Boundary	1.40	0.30	-20.00	1.43	1	10	MU-C	1.84	-2.33	-25.00	2.97	1
2	South Boundary	0.00	-0.50	13.00	0.50	1	11	MU-D	2.52	-3.56	-36.00	4.36	1
3	West Boundary	-0.70	0.00	49.00	0.70	1	12	MU-E	2.84	-3.98	-42.00	4.89	1
4	MU-1	-0.46	2.33	27.00	2.37	1	13	MU-F	3.00	-4.30	-47.00	5.24	1
5	MU-2	-0.45	1.65	16.00	1.71	1	14	MU-4	0.54	0.13	-4.00	0.56	1
6	MU-3	-0.05	0.95	13.00	0.95	1	15	Satellite	0.00	-0.00	0.00	0.00	1
7	MU-5	0.94	-0.45	-15.00	1.04	1	16	N Boundary #1	-1.30	5.10	35.00	5.26	1
8	MU-A	-0.76	2.88	45.00	2.98	1	17	N Boundary #2	-0.50	3.30	20.00	3.34	1
9	MU-B	1.22	-1.02	-15.00	1.59	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	87000.00	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

| N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW
 KILOMETERS | 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
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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.	3.842E-01	3.111E+00	5.016E-02	2.333E+00	1.122E+00	1.496E+02
GROUND	2.112E-02	2.112E-02	2.112E-02	2.112E-02	2.112E-02	2.112E-02
CLOUD	1.280E+00	1.280E+00	1.280E+00	1.280E+00	1.280E+00	1.280E+00
VEG. ING	1.800E+00	2.080E+01	1.800E+00	6.181E+00	5.035E+00	1.800E+00
MEAT ING	1.252E-01	1.446E+00	1.252E-01	4.299E-01	3.502E-01	1.252E-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	3.611E+00	2.666E+01	3.277E+00	1.025E+01	7.808E+00	1.528E+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	3.041E+02	3.514E+03	3.041E+02	1.044E+03	8.506E+02	3.041E+02
MEAT ING	2.508E+00	2.898E+01	2.508E+00	8.612E+00	7.015E+00	2.508E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	7.234E+01	9.864E+02	1.644E+01	7.234E+01	7.234E+01	4.603E+02
TOTALS	3.789E+02	4.529E+03	3.230E+02	1.125E+03	9.300E+02	7.669E+02

TOTAL DOSES COMPUTED OVER ALL POPULATIONS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	3.842E-01	3.111E+00	5.016E-02	2.333E+00	1.122E+00	1.496E+02
GROUND	2.112E-02	2.112E-02	2.112E-02	2.112E-02	2.112E-02	2.112E-02
CLOUD	1.280E+00	1.280E+00	1.280E+00	1.280E+00	1.280E+00	1.280E+00
VEG. ING	3.059E+02	3.534E+03	3.059E+02	1.050E+03	8.557E+02	3.059E+02
MEAT ING	2.633E+00	3.042E+01	2.633E+00	9.042E+00	7.365E+00	2.633E+00
MILK ING	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RNPLUS50	7.234E+01	9.864E+02	1.644E+01	7.234E+01	7.234E+01	4.603E+02
TOTALS	3.825E+02	4.556E+03	3.263E+02	1.136E+03	9.378E+02	9.197E+02

NUMBER 1 NAME=East Boundary X= 1.4KM, Y= 0.3KM, Z= -20.0M, DIST= 1.4KM, 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	8.32E+00	9.14E-02	8.97E-02	9.92E-02	9.33E-02	1.37E+02
CHILD	TOTALS	8.32E+00	9.27E-02	9.02E-02	9.44E-02	9.18E-02	1.37E+02
TEENAGE	TOTALS	8.32E+00	9.59E-02	9.05E-02	9.23E-02	9.12E-02	1.37E+02
ADULT	TOTALS	8.32E+00	9.58E-02	9.08E-02	9.23E-02	9.13E-02	1.37E+02

NUMBER 2 NAME=South Boundary X= 0.0KM, Y= -0.5KM, Z= 13.0M, DIST= 0.5KM, 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	1.74E+02	9.04E-01	9.00E-01	9.21E-01	9.08E-01	2.89E+03
CHILD	TOTALS	1.74E+02	9.07E-01	9.01E-01	9.10E-01	9.05E-01	2.89E+03
TEENAGE	TOTALS	1.74E+02	9.14E-01	9.02E-01	9.06E-01	9.03E-01	2.89E+03
ADULT	TOTALS	1.74E+02	9.13E-01	9.03E-01	9.06E-01	9.04E-01	2.89E+03

METSET: DATA: MAROCST.MIL 08/16/13
 TIME STEP NUMBER 1, DURATION IN YRS IS... 5.0

NUMBER 3 NAME=West Boundary X= -0.7KM, Y= 0.0KM, Z= 49.0M, 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	6.50E+01	6.55E-01	6.50E-01	6.79E-01	6.61E-01	1.07E+03
CHILD	TOTALS	6.50E+01	6.59E-01	6.51E-01	6.64E-01	6.56E-01	1.07E+03
TEENAGE	TOTALS	6.50E+01	6.69E-01	6.52E-01	6.57E-01	6.54E-01	1.07E+03
ADULT	TOTALS	6.50E+01	6.68E-01	6.53E-01	6.58E-01	6.54E-01	1.07E+03

NUMBER 4 NAME=MU-1 X= -0.5KM, Y= 2.3KM, Z= 27.0M, DIST= 2.4KM, 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	1.35E+01	6.98E-01	6.63E-01	8.57E-01	7.36E-01	2.14E+02
CHILD	TOTALS	1.34E+01	7.24E-01	6.72E-01	7.58E-01	7.04E-01	2.14E+02
TEENAGE	TOTALS	1.34E+01	7.90E-01	6.78E-01	7.15E-01	6.92E-01	2.14E+02
ADULT	TOTALS	1.35E+01	7.87E-01	6.85E-01	7.16E-01	6.95E-01	2.14E+02

NUMBER 5 NAME=MU-2 X= -0.4KM, Y= 1.6KM, Z= 16.0M, 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	2.10E+01	7.20E-01	6.97E-01	8.23E-01	7.45E-01	3.39E+02
CHILD	TOTALS	2.10E+01	7.37E-01	7.03E-01	7.59E-01	7.24E-01	3.39E+02
TEENAGE	TOTALS	2.10E+01	7.80E-01	7.07E-01	7.31E-01	7.16E-01	3.39E+02
ADULT	TOTALS	2.10E+01	7.78E-01	7.12E-01	7.32E-01	7.18E-01	3.39E+02

NUMBER 6 NAME=MU-3 X= -0.1KM, Y= 0.9KM, Z= 13.0M, 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	4.84E+01	7.49E-01	7.39E-01	7.94E-01	7.60E-01	7.96E+02
CHILD	TOTALS	4.84E+01	7.56E-01	7.41E-01	7.66E-01	7.51E-01	7.96E+02
TEENAGE	TOTALS	4.84E+01	7.75E-01	7.43E-01	7.54E-01	7.47E-01	7.96E+02
ADULT	TOTALS	4.84E+01	7.74E-01	7.45E-01	7.54E-01	7.48E-01	7.96E+02

NUMBER 7 NAME=MU-5 X= 0.9KM, Y= -0.4KM, Z= -15.0M, 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	1.49E+01	7.92E-02	7.84E-02	8.28E-02	8.00E-02	2.47E+02
CHILD	TOTALS	1.49E+01	7.98E-02	7.86E-02	8.05E-02	7.93E-02	2.47E+02
TEENAGE	TOTALS	1.49E+01	8.13E-02	7.87E-02	7.95E-02	7.90E-02	2.47E+02
ADULT	TOTALS	1.49E+01	8.12E-02	7.89E-02	7.96E-02	7.91E-02	2.47E+02

NUMBER 8 NAME=MU-A X= -0.8KM, Y= 2.9KM, Z= 45.0M, DIST= 3.0KM, 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	9.58E+00	6.18E-01	5.77E-01	8.10E-01	6.65E-01	1.50E+02
CHILD	TOTALS	9.57E+00	6.50E-01	5.87E-01	6.91E-01	6.26E-01	1.50E+02
TEENAGE	TOTALS	9.58E+00	7.29E-01	5.95E-01	6.39E-01	6.12E-01	1.50E+02
ADULT	TOTALS	9.58E+00	7.25E-01	6.04E-01	6.41E-01	6.16E-01	1.50E+02

NUMBER 9 NAME=MU-B X= 1.2KM, Y= -1.0KM, Z= -15.0M, DIST= 1.6KM, 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	1.26E+01	1.69E-01	1.65E-01	1.86E-01	1.73E-01	2.08E+02
CHILD	TOTALS	1.26E+01	1.72E-01	1.66E-01	1.75E-01	1.69E-01	2.08E+02
TEENAGE	TOTALS	1.26E+01	1.79E-01	1.66E-01	1.70E-01	1.68E-01	2.08E+02
ADULT	TOTALS	1.26E+01	1.79E-01	1.67E-01	1.71E-01	1.68E-01	2.08E+02

NUMBER 10 NAME=MU-C X= 1.8KM, Y= -2.3KM, Z= -25.0M, DIST= 3.0KM, 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	6.46E+00	2.27E-01	2.14E-01	2.87E-01	2.42E-01	1.04E+02
CHILD	TOTALS	6.45E+00	2.37E-01	2.17E-01	2.50E-01	2.30E-01	1.04E+02
TEENAGE	TOTALS	6.45E+00	2.62E-01	2.20E-01	2.33E-01	2.25E-01	1.04E+02
ADULT	TOTALS	6.46E+00	2.60E-01	2.22E-01	2.34E-01	2.26E-01	1.04E+02

NUMBER 11 NAME=MU-D X= 2.5KM, Y= -3.6KM, Z= -36.0M, DIST= 4.4KM, 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	4.02E+00	2.02E-01	1.84E-01	2.86E-01	2.22E-01	6.40E+01
CHILD	TOTALS	4.01E+00	2.16E-01	1.89E-01	2.34E-01	2.06E-01	6.40E+01
TEENAGE	TOTALS	4.02E+00	2.50E-01	1.92E-01	2.11E-01	1.99E-01	6.40E+01
ADULT	TOTALS	4.02E+00	2.49E-01	1.96E-01	2.12E-01	2.01E-01	6.40E+01

NUMBER 12 NAME=MU-E X= 2.8KM, Y= -4.0KM, Z= -42.0M, DIST= 4.9KM, 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	3.33E+00	1.73E-01	1.56E-01	2.52E-01	1.93E-01	5.30E+01
CHILD	TOTALS	3.33E+00	1.87E-01	1.61E-01	2.03E-01	1.77E-01	5.30E+01
TEENAGE	TOTALS	3.33E+00	2.19E-01	1.64E-01	1.82E-01	1.71E-01	5.30E+01
ADULT	TOTALS	3.33E+00	2.18E-01	1.68E-01	1.83E-01	1.72E-01	5.30E+01

NUMBER 13 NAME=MU-F X= 3.0KM, Y= -4.3KM, Z= -47.0M, DIST= 5.2KM, 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	2.98E+00	1.57E-01	1.41E-01	2.31E-01	1.75E-01	4.73E+01
CHILD	TOTALS	2.97E+00	1.69E-01	1.45E-01	1.85E-01	1.60E-01	4.73E+01
TEENAGE	TOTALS	2.98E+00	2.00E-01	1.47E-01	1.65E-01	1.54E-01	4.73E+01
ADULT	TOTALS	2.98E+00	1.98E-01	1.51E-01	1.65E-01	1.55E-01	4.73E+01

NUMBER 14 NAME=MU-4 X= 0.5KM, Y= 0.1KM, Z= -4.0M, 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	4.24E+01	7.74E-02	7.73E-02	7.81E-02	7.76E-02	7.05E+02
CHILD	TOTALS	4.24E+01	7.75E-02	7.73E-02	7.77E-02	7.74E-02	7.05E+02
TEENAGE	TOTALS	4.24E+01	7.78E-02	7.73E-02	7.75E-02	7.74E-02	7.05E+02
ADULT	TOTALS	4.24E+01	7.78E-02	7.74E-02	7.75E-02	7.74E-02	7.05E+02

METSET: DATA: MAROCST.MIL 08/16/13
 TIME STEP NUMBER 1, DURATION IN YRS IS... 5.0

NUMBER 15 NAME=Satellite X= 0.0KM, Y= 0.0KM, Z= 0.0M, DIST= 0.0KM, 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	1.60E+02	6.26E-03	6.26E-03	6.26E-03	6.26E-03	2.67E+03
CHILD	TOTALS	1.60E+02	6.26E-03	6.26E-03	6.26E-03	6.26E-03	2.67E+03
TEENAGE	TOTALS	1.60E+02	6.26E-03	6.26E-03	6.26E-03	6.26E-03	2.67E+03
ADULT	TOTALS	1.60E+02	6.26E-03	6.26E-03	6.26E-03	6.26E-03	2.67E+03

NUMBER 16 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

REGION: Marsland MU1-5 Occupatl CODE: MILDOS-AREA (02/12) PAGE 15
METSET: DATA: MAROCST.MIL 08/16/13
TIME STEP NUMBER 1, DURATION IN YRS IS... 5.0

NUMBER 17 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 = 0.05 seconds

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

Appendix B8

September 24, 2013

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Appendix	Title	Radon Source	Weather Data	Waste Water Flow Rate
B8	MAROCISR	ISR OCCUPATIONAL	MEA	315

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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

Table with 17 columns (Directions: N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows (Wind speeds: 1.5, 5.5, 10.0, 15.5, 21.5, 28.0, ALL) for Stability Class 1.

STABILITY CLASS 2

Table with 17 columns (Directions: N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows (Wind speeds: 1.5, 5.5, 10.0, 15.5, 21.5, 28.0, ALL) for Stability Class 2.

STABILITY CLASS 3

Table with 17 columns (Directions: N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows (Wind speeds: 1.5, 5.5, 10.0, 15.5, 21.5, 28.0, ALL) for Stability Class 3.

STABILITY CLASS 4

Table with 17 columns (Directions: N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows (Wind speeds: 1.5, 5.5, 10.0, 15.5, 21.5, 28.0, ALL) for Stability Class 4.

STABILITY CLASS 5

Table with 17 columns (Directions: N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows (Wind speeds: 1.5, 5.5, 10.0, 15.5, 21.5, 28.0, ALL) for Stability Class 5.

STABILITY CLASS 6

Table with 17 columns (Directions: N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, TOTALS) and 7 rows (Wind speeds: 1.5, 5.5, 10.0, 15.5, 21.5, 28.0, ALL) for Stability Class 6.

Summary row for ALL directions across all stability classes: 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

-----INDIVIDUAL RECEPTOR LOCATION DATA, 17 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	East Boundary	1.40	0.30	-20.00	1.43	1	10	MU-C	1.84	-2.33	-25.00	2.97	1
2	South Boundary	0.00	-0.50	13.00	0.50	1	11	MU-D	2.52	-3.56	-36.00	4.36	1
3	West Boundary	-0.70	0.00	49.00	0.70	1	12	MU-E	2.84	-3.98	-42.00	4.89	1
4	MU-1	-0.46	2.33	27.00	2.37	1	13	MU-F	3.00	-4.30	-47.00	5.24	1
5	MU-2	-0.45	1.65	16.00	1.71	1	14	MU-4	0.54	0.13	-4.00	0.56	1
6	MU-3	-0.05	0.95	13.00	0.95	1	15	Satellite	0.00	0.00	0.00	0.00	1
7	MU-5	0.94	-0.45	-15.00	1.04	1	16	N Boundary #1	-1.30	5.10	35.00	5.26	1
8	MU-A	-0.76	2.88	45.00	2.98	1	17	N Boundary #2	-0.50	3.30	20.00	3.34	1
9	MU-B	1.22	-1.02	-15.00	1.59	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	87000.00	4000.00	0.00	2.50

IPACT EQUALS 0, 0, 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

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
KILOMETERS	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
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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.	1.074E+00	8.695E+00	1.447E-01	6.522E+00	3.137E+00	5.256E+02
GROUND	7.067E-02	7.067E-02	7.067E-02	7.067E-02	7.067E-02	7.067E-02
CLOUD	3.730E+00	3.730E+00	3.730E+00	3.730E+00	3.730E+00	3.730E+00
VEG. ING	5.192E+00	6.000E+01	5.192E+00	1.783E+01	1.452E+01	5.192E+00
MEAT ING	3.611E-01	4.173E+00	3.611E-01	1.240E+00	1.010E+00	3.611E-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	1.043E+01	7.666E+01	9.498E+00	2.939E+01	2.247E+01	5.350E+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	8.772E+02	1.014E+04	8.772E+02	3.013E+03	2.454E+03	8.772E+02
MEAT ING	7.234E+00	8.359E+01	7.234E+00	2.485E+01	2.024E+01	7.234E+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	1.094E+03	1.307E+04	9.320E+02	3.247E+03	2.683E+03	2.216E+03

TOTAL DOSES COMPUTED OVER ALL POPULATIONS

PATHWAY	EFFECTIV	BONE	AVG.LUNG	LIVER	KIDNEY	BRONCHI
INHAL.	1.074E+00	8.695E+00	1.447E-01	6.522E+00	3.137E+00	5.256E+02
GROUND	7.067E-02	7.067E-02	7.067E-02	7.067E-02	7.067E-02	7.067E-02
CLOUD	3.730E+00	3.730E+00	3.730E+00	3.730E+00	3.730E+00	3.730E+00
VEG. ING	8.824E+02	1.020E+04	8.824E+02	3.031E+03	2.469E+03	8.824E+02
MEAT ING	7.595E+00	8.777E+01	7.595E+00	2.609E+01	2.125E+01	7.595E+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	1.104E+03	1.315E+04	9.415E+02	3.276E+03	2.706E+03	2.751E+03

NUMBER 1 NAME=East Boundary X= 1.4KM, Y= 0.3KM, Z= -20.0M, DIST= 1.4KM, 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	2.85E+00	5.54E-01	3.33E-01	1.58E+00	8.03E-01	4.14E+01
CHILD	TOTALS	2.83E+00	7.26E-01	3.89E-01	9.43E-01	5.97E-01	4.14E+01
TEENAGE	TOTALS	2.84E+00	1.15E+00	4.27E-01	6.64E-01	5.17E-01	4.14E+01
ADULT	TOTALS	2.85E+00	1.13E+00	4.76E-01	6.74E-01	5.39E-01	4.14E+01

NUMBER 2 NAME=South Boundary X= 0.0KM, Y= -0.5KM, Z= 13.0M, DIST= 0.5KM, 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	3.32E+00	6.84E-01	3.98E-01	2.01E+00	1.01E+00	4.79E+01
CHILD	TOTALS	3.30E+00	9.06E-01	4.70E-01	1.19E+00	7.40E-01	4.79E+01
TEENAGE	TOTALS	3.31E+00	1.45E+00	5.20E-01	8.27E-01	6.37E-01	4.79E+01
ADULT	TOTALS	3.32E+00	1.43E+00	5.83E-01	8.39E-01	6.64E-01	4.79E+01

NUMBER 3 NAME=West Boundary X= -0.7KM, Y= 0.0KM, Z= 49.0M, 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	3.58E+00	7.24E-01	4.26E-01	2.11E+00	1.06E+00	5.17E+01
CHILD	TOTALS	3.55E+00	9.56E-01	5.01E-01	1.25E+00	7.83E-01	5.17E+01
TEENAGE	TOTALS	3.57E+00	1.52E+00	5.53E-01	8.73E-01	6.75E-01	5.17E+01
ADULT	TOTALS	3.58E+00	1.50E+00	6.19E-01	8.86E-01	7.04E-01	5.17E+01

NUMBER 4 NAME=MU-1 X= -0.5KM, Y= 2.3KM, Z= 27.0M, DIST= 2.4KM, 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	3.80E+00	7.22E-01	4.40E-01	2.03E+00	1.04E+00	5.52E+01
CHILD	TOTALS	3.78E+00	9.41E-01	5.12E-01	1.22E+00	7.78E-01	5.52E+01
TEENAGE	TOTALS	3.79E+00	1.48E+00	5.60E-01	8.63E-01	6.76E-01	5.52E+01
ADULT	TOTALS	3.80E+00	1.45E+00	6.23E-01	8.75E-01	7.03E-01	5.52E+01

NUMBER 5 NAME=MU-2 X= -0.4KM, Y= 1.6KM, Z= 16.0M, 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	3.69E+00	7.15E-01	4.32E-01	2.03E+00	1.04E+00	5.36E+01
CHILD	TOTALS	3.67E+00	9.36E-01	5.03E-01	1.21E+00	7.71E-01	5.36E+01
TEENAGE	TOTALS	3.69E+00	1.48E+00	5.52E-01	8.57E-01	6.69E-01	5.36E+01
ADULT	TOTALS	3.70E+00	1.45E+00	6.16E-01	8.69E-01	6.96E-01	5.36E+01

NUMBER 6 NAME=MU-3 X= -0.1KM, Y= 0.9KM, Z= 13.0M, 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	3.51E+00	6.94E-01	4.13E-01	2.00E+00	1.01E+00	5.08E+01
CHILD	TOTALS	3.48E+00	9.12E-01	4.84E-01	1.19E+00	7.49E-01	5.08E+01
TEENAGE	TOTALS	3.50E+00	1.45E+00	5.33E-01	8.34E-01	6.48E-01	5.08E+01
ADULT	TOTALS	3.51E+00	1.42E+00	5.95E-01	8.46E-01	6.75E-01	5.08E+01

NUMBER 7 NAME=MU-5 X= 0.9KM, Y= -0.4KM, Z= -15.0M, 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	2.93E+00	5.85E-01	3.46E-01	1.69E+00	8.55E-01	4.24E+01
CHILD	TOTALS	2.91E+00	7.71E-01	4.07E-01	1.01E+00	6.32E-01	4.24E+01
TEENAGE	TOTALS	2.92E+00	1.23E+00	4.48E-01	7.05E-01	5.46E-01	4.24E+01
ADULT	TOTALS	2.93E+00	1.21E+00	5.01E-01	7.15E-01	5.69E-01	4.24E+01

NUMBER 8 NAME=MU-A X= -0.8KM, Y= 2.9KM, Z= 45.0M, DIST= 3.0KM, 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	3.95E+00	7.37E-01	4.55E-01	2.05E+00	1.06E+00	5.76E+01
CHILD	TOTALS	3.93E+00	9.57E-01	5.26E-01	1.23E+00	7.93E-01	5.76E+01
TEENAGE	TOTALS	3.94E+00	1.50E+00	5.75E-01	8.78E-01	6.91E-01	5.76E+01
ADULT	TOTALS	3.95E+00	1.47E+00	6.38E-01	8.91E-01	7.18E-01	5.76E+01

NUMBER 9 NAME=MU-B X= 1.2KM, Y= -1.0KM, Z= -15.0M, DIST= 1.6KM, 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	2.84E+00	5.77E-01	3.38E-01	1.69E+00	8.47E-01	4.11E+01
CHILD	TOTALS	2.82E+00	7.63E-01	3.99E-01	9.98E-01	6.25E-01	4.11E+01
TEENAGE	TOTALS	2.84E+00	1.22E+00	4.40E-01	6.97E-01	5.38E-01	4.11E+01
ADULT	TOTALS	2.85E+00	1.20E+00	4.93E-01	7.07E-01	5.61E-01	4.11E+01

NUMBER 10 NAME=MU-C X= 1.8KM, Y= -2.3KM, Z= -25.0M, DIST= 3.0KM, 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	2.54E+00	5.25E-01	3.05E-01	1.55E+00	7.73E-01	3.67E+01
CHILD	TOTALS	2.52E+00	6.96E-01	3.60E-01	9.12E-01	5.68E-01	3.67E+01
TEENAGE	TOTALS	2.54E+00	1.12E+00	3.98E-01	6.35E-01	4.89E-01	3.67E+01
ADULT	TOTALS	2.54E+00	1.10E+00	4.47E-01	6.44E-01	5.10E-01	3.67E+01

NUMBER 11 NAME=MU-D X= 2.5KM, Y= -3.6KM, Z= -36.0M, DIST= 4.4KM, 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	2.28E+00	4.73E-01	2.74E-01	1.40E+00	6.97E-01	3.28E+01
CHILD	TOTALS	2.26E+00	6.28E-01	3.24E-01	8.23E-01	5.12E-01	3.28E+01
TEENAGE	TOTALS	2.27E+00	1.01E+00	3.59E-01	5.72E-01	4.40E-01	3.28E+01
ADULT	TOTALS	2.28E+00	9.89E-01	4.03E-01	5.81E-01	4.59E-01	3.28E+01

NUMBER 12 NAME=MU-E X= 2.8KM, Y= -4.0KM, Z= -42.0M, DIST= 4.9KM, 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	2.15E+00	4.44E-01	2.58E-01	1.31E+00	6.54E-01	3.10E+01
CHILD	TOTALS	2.13E+00	5.89E-01	3.05E-01	7.71E-01	4.81E-01	3.10E+01
TEENAGE	TOTALS	2.14E+00	9.43E-01	3.37E-01	5.37E-01	4.13E-01	3.10E+01
ADULT	TOTALS	2.15E+00	9.26E-01	3.79E-01	5.45E-01	4.31E-01	3.10E+01

NUMBER 13 NAME=MU-F X= 3.0KM, Y= -4.3KM, Z= -47.0M, DIST= 5.2KM, 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	2.05E+00	4.21E-01	2.46E-01	1.23E+00	6.19E-01	2.96E+01
CHILD	TOTALS	2.04E+00	5.57E-01	2.91E-01	7.29E-01	4.56E-01	2.96E+01
TEENAGE	TOTALS	2.05E+00	8.92E-01	3.21E-01	5.09E-01	3.92E-01	2.96E+01
ADULT	TOTALS	2.05E+00	8.76E-01	3.60E-01	5.16E-01	4.09E-01	2.96E+01

NUMBER 14 NAME=MU-4 X= 0.5KM, Y= 0.1KM, Z= -4.0M, 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	3.18E+00	6.35E-01	3.76E-01	1.84E+00	9.28E-01	4.60E+01
CHILD	TOTALS	3.16E+00	8.37E-01	4.42E-01	1.09E+00	6.87E-01	4.60E+01
TEENAGE	TOTALS	3.17E+00	1.33E+00	4.87E-01	7.65E-01	5.93E-01	4.60E+01
ADULT	TOTALS	3.18E+00	1.31E+00	5.44E-01	7.76E-01	6.18E-01	4.60E+01

NUMBER 15 NAME=Satellite X= 0.0KM, Y= 0.0KM, Z= 0.0M, DIST= 0.0KM, 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	3.30E+00	6.62E-01	3.91E-01	1.92E+00	9.68E-01	4.76E+01
CHILD	TOTALS	3.27E+00	8.73E-01	4.60E-01	1.14E+00	7.16E-01	4.76E+01
TEENAGE	TOTALS	3.29E+00	1.39E+00	5.06E-01	7.98E-01	6.17E-01	4.76E+01
ADULT	TOTALS	3.30E+00	1.37E+00	5.67E-01	8.09E-01	6.44E-01	4.76E+01

NUMBER 16 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	4.46E+00	7.71E-01	4.96E-01	2.05E+00	1.08E+00	6.54E+01
CHILD	TOTALS	4.44E+00	9.84E-01	5.65E-01	1.25E+00	8.25E-01	6.54E+01
TEENAGE	TOTALS	4.45E+00	1.51E+00	6.13E-01	9.08E-01	7.26E-01	6.54E+01
ADULT	TOTALS	4.46E+00	1.48E+00	6.74E-01	9.20E-01	7.52E-01	6.54E+01

NUMBER 17 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	3.94E+00	7.26E-01	4.50E-01	2.01E+00	1.04E+00	5.74E+01
CHILD	TOTALS	3.92E+00	9.41E-01	5.20E-01	1.21E+00	7.81E-01	5.74E+01
TEENAGE	TOTALS	3.93E+00	1.47E+00	5.68E-01	8.65E-01	6.81E-01	5.74E+01
ADULT	TOTALS	3.94E+00	1.44E+00	6.30E-01	8.77E-01	7.08E-01	5.74E+01

Program execution time = 0.24 seconds