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*                    09-15-97                      *
*                   K-Spar Inc.                    *
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TITLE: CFA-13 max, non-rad
----------------- MODEL OPTIONS -------------------
Type of Output:        Limiting Conc
Integration Method:    Gaussian Quad
Source Model Type:     Surface/Buried
Dose Criteria:         MCL for Non-radiological Contaminant
--------------- SOURCE PARAMETERS -----------------
X Coordinate (m):   -5.773E+02  Y Coordinate (m):    1.749E+02
Source Length (m):   5.000E+00  Source Width (m):    5.000E+00
Thickness (m):       9.100E+00  Bulk Density (g/cc): 1.500E+00
Percolation (m/y):   1.000E-01  Moisture Content:    3.000E-01
------------ UNSATURATED ZONE PARAMETERS -----------
Unsat Thickness (m): 1.400E+01  Moisture Content:    3.000E-01
Total Porosity:      4.870E-01  Bulk Density:        1.500E+00
---------------- AQUIFER PARAMETERS ----------------
Solution Type:    2D Averaged
Pore Velocity (m/y):        5.700E+02 Aquifer Porosity:          1.000E-01
Longitudinal Disp (m):      9.000E+00 Transverse Disp (m):       4.000E+00
Vertical Disp (m):         n/a        Well Screen Thickness (m):  1.500E+01
Bulk Density (g/cc):        1.900E+00 Number of Receptors:       11
--------------- EXPOSURE PARAMETERS ----------------
Dose Impacts Base on: MCL (mg/L)
Body Weight (kg):           7.000E+01 Averaging Time (d):        2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y):  3.500E+02
Exposure Duration (y):      3.000E+01
------------------------------------------------- CONTAMINANT PARAMETERS -------------------------------------------------
Contaminant Name          Inventory    Dose      Molar    Half Life  Kd Source  Kd Unsat  Kd Aquifer Additional Solubility
                                       Factor    Weight                                                Loss Rate    Limit
                            (mg)     MCL (mg/L) (g/mole)   (years)    (mL/g)     (mL/g)     (mL/g)     (1/y)      (mg/L)
--------------------------------------------------------------------------------------------------------------------------
Benzo(a)anthracene        3.583E+05  1.000E-05  2.281E+02  9.000E+09  1.190E+03  1.190E+03  1.190E+03  0.000E+00  1.000E+06
Benzo(b)fluoranthene      1.672E+05  1.000E-05  2.520E+02  9.000E+09  3.690E+03  3.690E+03  3.690E+03  0.000E+00  1.000E+06
Benzo(g_h_i)perylene      2.030E+05  0.000E+00  2.763E+02  9.000E+09  4.740E+03  4.740E+03  4.740E+03  0.000E+00  1.000E+06
Lead                      3.126E+07  0.000E+00  2.072E+02  9.000E+09  1.000E+02  1.000E+02  1.000E+02  0.000E+00  1.000E+06
Mo-95                     2.430E-25  1.800E-01  9.500E+01  1.000E+09  1.000E+01  1.000E+01  1.000E+01  0.000E+00  1.000E+06
------------------------------------------------ RESULTS ------------------------------------------------
* = Limiting pore water concentration exceeds solubility
Receptor Location X, Y, Z, (meters): -5.748E+02, 1.749E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                       Concentration Concentration   Impacts       Impacts     Concentration    (years)
                          (mg/L)        (mg/L)       (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
Benzo(a)anthracene      1.370E-07     1.370E-07    0.000E+00     0.000E+00     7.662E+01     2.511E+05
Benzo(b)fluoranthene    2.062E-08     2.062E-08    0.000E+00     0.000E+00     2.376E+02     7.786E+05
Benzo(g_h_i)perylene    1.949E-08     1.949E-08    0.000E+00     0.000E+00     0.000E+00     1.000E+06
Lead                    1.420E-04     1.419E-04    0.000E+00     0.000E+00     0.000E+00     2.114E+04
Mo-95                   1.085E-35     1.053E-35    0.000E+00     0.000E+00     1.217E+04     2.152E+03
Receptor Location X, Y, Z, (meters):  7.550E+01,-2.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                       Concentration Concentration   Impacts       Impacts     Concentration    (years)
                          (mg/L)        (mg/L)       (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
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Benzo(a)anthracene	1.038E-13	1.038E-13	0.000E+00	0.000E+00	1.012E+08	2.948E+05
Benzo(b)fluoranthene	1.562E-14	1.562E-14	0.000E+00	0.000E+00	3.136E+08	9.139E+05
Benzo(g_h_i)perylene	1.477E-14	1.477E-14	0.000E+00	0.000E+00	0.000E+00	1.174E+06
Lead	1.076E-10	1.072E-10	0.000E+00	0.000E+00	0.000E+00	2.481E+04
Mo-95	8.221E-42	8.164E-42	0.000E+00	0.000E+00	1.570E+10*	2.521E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 0.000E+00, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	7.527E-10	7.526E-10	0.000E+00	0.000E+00	1.395E+04	2.897E+05
Benzo(b)fluoranthene	1.133E-10	1.133E-10	0.000E+00	0.000E+00	4.325E+04	8.982E+05
Benzo(g_h_i)perylene	1.071E-10	1.071E-10	0.000E+00	0.000E+00	0.000E+00	1.154E+06
Lead	7.802E-07	7.789E-07	0.000E+00	0.000E+00	0.000E+00	2.439E+04
Mo-95	5.963E-38	5.937E-38	0.000E+00	0.000E+00	2.159E+06	2.478E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	7.616E-09	7.611E-09	0.000E+00	0.000E+00	1.380E+03	2.876E+05
Benzo(b)fluoranthene	1.146E-09	1.146E-09	0.000E+00	0.000E+00	4.276E+03	8.917E+05
Benzo(g_h_i)perylene	1.083E-09	1.083E-09	0.000E+00	0.000E+00	0.000E+00	1.145E+06
Lead	7.893E-06	7.887E-06	0.000E+00	0.000E+00	0.000E+00	2.421E+04
Mo-95	6.033E-37	6.016E-37	0.000E+00	0.000E+00	2.131E+05	2.460E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	1.231E-08	1.230E-08	0.000E+00	0.000E+00	8.534E+02	2.876E+05
Benzo(b)fluoranthene	1.853E-09	1.852E-09	0.000E+00	0.000E+00	2.645E+03	8.917E+05
Benzo(g_h_i)perylene	1.751E-09	1.750E-09	0.000E+00	0.000E+00	0.000E+00	1.145E+06
Lead	1.276E-05	1.275E-05	0.000E+00	0.000E+00	0.000E+00	2.421E+04
Mo-95	9.747E-37	9.724E-37	0.000E+00	0.000E+00	1.318E+05	2.461E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 3.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	2.970E-09	2.970E-09	0.000E+00	0.000E+00	3.536E+03	2.897E+05
Benzo(b)fluoranthene	4.470E-10	4.470E-10	0.000E+00	0.000E+00	1.096E+04	8.982E+05
Benzo(g_h_i)perylene	4.225E-10	4.225E-10	0.000E+00	0.000E+00	0.000E+00	1.154E+06
Lead	3.078E-06	3.074E-06	0.000E+00	0.000E+00	0.000E+00	2.439E+04
Mo-95	2.353E-37	2.338E-37	0.000E+00	0.000E+00	5.481E+05	2.478E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 4.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	1.286E-10	1.285E-10	0.000E+00	0.000E+00	8.171E+04	2.910E+05
Benzo(b)fluoranthene	1.936E-11	1.935E-11	0.000E+00	0.000E+00	2.533E+05	9.022E+05
Benzo(g_h_i)perylene	1.829E-11	1.829E-11	0.000E+00	0.000E+00	0.000E+00	1.159E+06
Lead	1.333E-07	1.331E-07	0.000E+00	0.000E+00	0.000E+00	2.449E+04
Mo-95	1.019E-38	1.014E-38	0.000E+00	0.000E+00	1.264E+07*	2.489E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 6.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	5.981E-15	5.981E-15	0.000E+00	0.000E+00	1.756E+09*	2.981E+05
Benzo(b)fluoranthene	9.001E-16	9.001E-16	0.000E+00	0.000E+00	5.443E+09*	9.242E+05
Benzo(g_h_i)perylene	8.508E-16	8.508E-16	0.000E+00	0.000E+00	0.000E+00	1.187E+06
Lead	6.199E-12	6.178E-12	0.000E+00	0.000E+00	0.000E+00	2.509E+04
Mo-95	4.736E-43	4.694E-43	0.000E+00	0.000E+00	2.728E+11*	2.549E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 8.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	1.494E-20	1.494E-20	0.000E+00	0.000E+00	7.027E+14*	3.088E+05
Benzo(b)fluoranthene	2.249E-21	2.249E-21	0.000E+00	0.000E+00	2.179E+15*	9.574E+05
Benzo(g_h_i)perylene	2.125E-21	2.125E-21	0.000E+00	0.000E+00	0.000E+00	1.230E+06
Lead	1.549E-17	1.548E-17	0.000E+00	0.000E+00	0.000E+00	2.599E+04
Mo-95	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.085E+17*	2.639E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+03, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	1.109E-26	1.108E-26	0.000E+00	0.000E+00	9.480E+20*	3.161E+05
Benzo(b)fluoranthene	1.668E-27	1.669E-27	0.000E+00	0.000E+00	2.935E+21*	9.801E+05
Benzo(g_h_i)perylene	1.577E-27	1.578E-27	0.000E+00	0.000E+00	0.000E+00	1.259E+06
Lead	1.149E-23	1.006E-23	0.000E+00	0.000E+00	0.000E+00	2.661E+04
Mo-95	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.088E+23*	2.701E+03

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.200E+03, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(a)anthracene	1.696E-33	1.697E-33	0.000E+00	0.000E+00	6.188E+27*	3.394E+05
Benzo(b)fluoranthene	2.552E-34	2.553E-34	0.000E+00	0.000E+00	1.919E+28*	1.052E+06
Benzo(g_h_i)perylene	2.412E-34	2.413E-34	0.000E+00	0.000E+00	0.000E+00	1.352E+06
Lead	1.758E-30	1.164E-30	0.000E+00	0.000E+00	0.000E+00	2.856E+04
Mo-95	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.123E+30*	2.898E+03

TIME OF RUN 18:07:51.8
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\13-rad.max

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 ***************************************************
 *                                                 *
 *     This output was produced by the model:      *
 *                    GWMENU                       *
 *         Version 1.01: Beta Test Version         *
 * A menu-driven pre-processor for the groundwater *
 * pathway screening model GWSCREEN Version 2.5    *
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 *                    09-15-97                     *
 *                   K-Spar Inc.                   *
 *         493 N 4154 E Rigby Idaho 83442          *
 *         (208) 745-8068 email asr@srv.net        *
 ***************************************************
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 ==================================================================

TITLE: CFA-13 max, rad
----------------- MODEL OPTIONS ------------------
Type of Output:        Limiting Conc
Integration Method:    Gaussian Quad
Source Model Type:     Surface/Buried
Dose Criteria:         MCL for Radionuclide
--------------- SOURCE PARAMETERS -----------------
X Coordinate (m):   -5.773E+02  Y Coordinate (m):    1.749E+02
Source Length (m):   5.000E+00  Source Width (m):    5.000E+00
Thickness (m):       9.100E+00  Bulk Density (g/cc): 1.500E+00
```

Percolation (m/y): 1.000E-01 Moisture Content: 3.000E-01
---------- UNSATURATED ZONE PARAMETERS ----------
Unsat Thickness (m): 1.400E+01 Moisture Content: 3.000E-01
Total Porosity: 4.870E-01 Bulk Density: 1.500E+00
---------- AQUIFER PARAMETERS ----------
Solution Type: 2D Averaged
Pore Velocity (m/y): 5.700E+02 Aquifer Porosity: 1.000E-01
Longitudinal Disp (m): 9.000E+00 Transverse Disp (m): 4.000E+00
Vertical Disp (m): n/a Well Screen Thickness (m): 1.500E+01
Bulk Density (g/cc): 1.900E+00 Number of Receptors: 11
---------- EXPOSURE PARAMETERS ----------
Dose Impacts Base on: MCL (Ci/L)
Body Weight (kg): 7.000E+01 Averaging Time (d): 2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y): 3.500E+02
Exposure Duration (y): 3.000E+01
---------- CONTAMINANT PARAMETERS ----------

Contaminant Name	Inventory (Ci)	Dose Factor MCL (Ci/L)	Molar Weight (g/mole)	Half Life (years)	Kd Source (mL/g)	Kd Unsat (mL/g)	Kd Aquifer (mL/g)	Additional Loss Rate (1/y)	Solubility Limit (mg/L)
Np-237	4.409E-07	1.500E-11	2.370E+02	2.100E+06	5.000E+00	5.000E+00	5.000E+00	0.000E+00	1.000E+06
U-233		2.700E+05		1.590E+05			6.000E+00		
Th-229		3.910E+06		7.340E+03			1.000E+02		
Ra-226	6.484E-04	2.000E-11	2.260E+02	1.600E+03	1.000E+02	1.000E+02	1.000E+02	0.000E+00	1.000E+06
Pb-210		6.700E+06		2.230E+01			1.000E+02		
U-235	4.982E-05	1.010E-12	2.350E+02	7.040E+08	6.000E+00	6.000E+00	6.000E+00	0.000E+00	1.000E+06
Pa-231		1.340E+00		3.500E+04			8.000E+00		
Ac-227		2.490E+05		2.160E+01			7.000E+01		
U-238	3.314E-04	7.680E-13	2.380E+02	4.470E+09	6.000E+00	6.000E+00	6.000E+00	0.000E+00	1.000E+06
U-234		2.600E+05		2.450E+05			6.000E+00		
Th-230		5.300E+05		7.540E+03			1.000E+02		
Ra-226		1.100E+06		1.600E+03			1.000E+02		
Pb-210		6.700E+06		2.230E+01			1.000E+02		

---------- RESULTS ----------
* = Limiting pore water concentration exceeds solubility
Receptor Location X, Y, Z, (meters): -5.748E+02, 1.749E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		3.859E-17	3.914E-17	0.000E+00	0.000E+00	4.952E-07	1.097E+03
	U-233	1.537E-19	1.574E-19	0.000E+00	0.000E+00		
	Th-229	4.659E-22	4.814E-22	0.000E+00	0.000E+00		
Ra-226		3.101E-19	3.098E-19	0.000E+00	0.000E+00	1.227E-01	2.114E+04
	Pb-210	3.144E-19	3.142E-19	0.000E+00	0.000E+00		
U-235		3.658E-15	3.681E-15	0.000E+00	0.000E+00	4.005E-08	1.308E+03
	Pa-231	7.031E-17	7.127E-17	0.000E+00	0.000E+00		
	Ac-227	7.893E-18	8.002E-18	0.000E+00	0.000E+00		
U-238		2.434E-14	2.449E-14	0.000E+00	0.000E+00	3.046E-08	1.308E+03
	U-234	8.989E-17	9.112E-17	0.000E+00	0.000E+00		
	Th-230	3.144E-19	3.210E-19	0.000E+00	0.000E+00		
	Ra-226	5.233E-20	5.377E-20	0.000E+00	0.000E+00		
	Pb-210	4.884E-20	5.021E-20	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01,-2.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		2.928E-23	2.890E-23	0.000E+00	0.000E+00	6.707E-01	1.282E+03
	U-233	1.363E-25	1.345E-25	0.000E+00	0.000E+00		
	Th-229	4.800E-28	4.739E-28	0.000E+00	0.000E+00		
Ra-226		5.193E-26	5.182E-26	0.000E+00	0.000E+00	7.334E+05*	2.449E+04
	Pb-210	5.266E-26	5.255E-26	0.000E+00	0.000E+00		
U-235		2.775E-21	2.744E-21	0.000E+00	0.000E+00	5.373E-02*	1.530E+03
	Pa-231	6.225E-23	6.156E-23	0.000E+00	0.000E+00		
	Ac-227	7.012E-24	6.935E-24	0.000E+00	0.000E+00		
U-238		1.846E-20	1.825E-20	0.000E+00	0.000E+00	4.086E-02*	1.530E+03

	U-234	7.973E-23	7.885E-23	0.000E+00	0.000E+00		
	Th-230	3.241E-25	3.205E-25	0.000E+00	0.000E+00		
	Ra-226	6.181E-26	6.114E-26	0.000E+00	0.000E+00		
	Pb-210	5.829E-26	5.766E-26	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 0.000E+00, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		2.119E-19	2.106E-19	0.000E+00	0.000E+00	9.202E-05	1.266E+03
	U-233	9.738E-22	9.680E-22	0.000E+00	0.000E+00		
	Th-229	3.389E-24	3.369E-24	0.000E+00	0.000E+00		
Ra-226		4.789E-22	4.785E-22	0.000E+00	0.000E+00	7.942E+01	2.392E+04
	Pb-210	4.857E-22	4.852E-22	0.000E+00	0.000E+00		
U-235		2.008E-17	1.999E-17	0.000E+00	0.000E+00	7.377E-06	1.511E+03
	Pa-231	4.449E-19	4.428E-19	0.000E+00	0.000E+00		
	Ac-227	5.010E-20	4.987E-20	0.000E+00	0.000E+00		
U-238		1.336E-16	1.330E-16	0.000E+00	0.000E+00	5.609E-06	1.511E+03
	U-234	5.697E-19	5.671E-19	0.000E+00	0.000E+00		
	Th-230	2.288E-21	2.277E-21	0.000E+00	0.000E+00		
	Ra-226	4.316E-22	4.296E-22	0.000E+00	0.000E+00		
	Pb-210	4.067E-22	4.048E-22	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		2.147E-18	2.133E-18	0.000E+00	0.000E+00	9.085E-06	1.253E+03
	U-233	9.762E-21	9.698E-21	0.000E+00	0.000E+00		
	Th-229	3.362E-23	3.340E-23	0.000E+00	0.000E+00		
Ra-226		5.181E-21	5.177E-21	0.000E+00	0.000E+00	7.340E+00	2.374E+04
	Pb-210	5.254E-21	5.250E-21	0.000E+00	0.000E+00		
U-235		2.035E-16	2.025E-16	0.000E+00	0.000E+00	7.281E-07	1.494E+03
	Pa-231	4.460E-18	4.439E-18	0.000E+00	0.000E+00		
	Ac-227	5.022E-19	4.997E-19	0.000E+00	0.000E+00		
U-238		1.354E-15	1.347E-15	0.000E+00	0.000E+00	5.537E-07	1.494E+03
	U-234	5.711E-18	5.683E-18	0.000E+00	0.000E+00		
	Th-230	2.269E-20	2.258E-20	0.000E+00	0.000E+00		
	Ra-226	4.241E-21	4.221E-21	0.000E+00	0.000E+00		
	Pb-210	3.994E-21	3.975E-21	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 2.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		3.471E-18	3.450E-18	0.000E+00	0.000E+00	5.618E-06	1.253E+03
	U-233	1.578E-20	1.568E-20	0.000E+00	0.000E+00		
	Th-229	5.435E-23	5.402E-23	0.000E+00	0.000E+00		
Ra-226		8.485E-21	8.479E-21	0.000E+00	0.000E+00	4.482E+00	2.374E+04
	Pb-210	8.605E-21	8.599E-21	0.000E+00	0.000E+00		
U-235		3.290E-16	3.274E-16	0.000E+00	0.000E+00	4.503E-07	1.494E+03
	Pa-231	7.210E-18	7.176E-18	0.000E+00	0.000E+00		
	Ac-227	8.118E-19	8.080E-19	0.000E+00	0.000E+00		
U-238		2.188E-15	2.178E-15	0.000E+00	0.000E+00	3.424E-07	1.494E+03
	U-234	9.232E-18	9.189E-18	0.000E+00	0.000E+00		
	Th-230	3.669E-20	3.651E-20	0.000E+00	0.000E+00		
	Ra-226	6.856E-21	6.825E-21	0.000E+00	0.000E+00		
	Pb-210	6.456E-21	6.426E-21	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 3.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		8.380E-19	8.303E-19	0.000E+00	0.000E+00	2.334E-05	1.261E+03
	U-233	3.835E-21	3.800E-21	0.000E+00	0.000E+00		
	Th-229	1.329E-23	1.317E-23	0.000E+00	0.000E+00		
Ra-226		1.962E-21	1.961E-21	0.000E+00	0.000E+00	1.938E+01	2.378E+04

	Pb-210	1.990E-21	1.989E-21	0.000E+00	0.000E+00		
U-235		7.942E-17	7.878E-17	0.000E+00	0.000E+00	1.872E-06	1.504E+03
	Pa-231	1.752E-18	1.738E-18	0.000E+00	0.000E+00		
	Ac-227	1.973E-19	1.957E-19	0.000E+00	0.000E+00		
U-238		5.283E-16	5.241E-16	0.000E+00	0.000E+00	1.423E-06	1.504E+03
	U-234	2.244E-18	2.225E-18	0.000E+00	0.000E+00		
	Th-230	8.972E-21	8.899E-21	0.000E+00	0.000E+00		
	Ra-226	1.686E-21	1.673E-21	0.000E+00	0.000E+00		
	Pb-210	1.589E-21	1.576E-21	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 4.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		3.628E-20	3.597E-20	0.000E+00	0.000E+00	5.388E-04	1.266E+03
	U-233	1.667E-22	1.653E-22	0.000E+00	0.000E+00		
	Th-229	5.803E-25	5.754E-25	0.000E+00	0.000E+00		
Ra-226		7.817E-23	7.799E-23	0.000E+00	0.000E+00	4.873E+02	2.401E+04
	Pb-210	7.927E-23	7.909E-23	0.000E+00	0.000E+00		
U-235		3.439E-18	3.417E-18	0.000E+00	0.000E+00	4.316E-05	1.511E+03
	Pa-231	7.618E-20	7.569E-20	0.000E+00	0.000E+00		
	Ac-227	8.579E-21	8.524E-21	0.000E+00	0.000E+00		
U-238		2.287E-17	2.273E-17	0.000E+00	0.000E+00	3.282E-05	1.511E+03
	U-234	9.755E-20	9.693E-20	0.000E+00	0.000E+00		
	Th-230	3.917E-22	3.892E-22	0.000E+00	0.000E+00		
	Ra-226	7.390E-23	7.344E-23	0.000E+00	0.000E+00		
	Pb-210	6.964E-23	6.920E-23	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 6.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		1.687E-24	1.668E-24	0.000E+00	0.000E+00	1.162E+01*	1.296E+03
	U-233	7.940E-27	7.847E-27	0.000E+00	0.000E+00		
	Th-229	2.826E-29	2.794E-29	0.000E+00	0.000E+00		
Ra-226		2.758E-27	2.746E-27	0.000E+00	0.000E+00	1.384E+07*	2.465E+04
	Pb-210	2.796E-27	2.784E-27	0.000E+00	0.000E+00		
U-235		1.599E-22	1.581E-22	0.000E+00	0.000E+00	9.328E-01*	1.547E+03
	Pa-231	3.627E-24	3.584E-24	0.000E+00	0.000E+00		
	Ac-227	4.086E-25	4.039E-25	0.000E+00	0.000E+00		
U-238		1.064E-21	1.052E-21	0.000E+00	0.000E+00	7.093E-01*	1.547E+03
	U-234	4.645E-24	4.591E-24	0.000E+00	0.000E+00		
	Th-230	1.908E-26	1.886E-26	0.000E+00	0.000E+00		
	Ra-226	3.673E-27	3.631E-27	0.000E+00	0.000E+00		
	Pb-210	3.467E-27	3.427E-27	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 8.000E+02, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		4.217E-30	4.197E-30	0.000E+00	0.000E+00	4.618E+06*	1.343E+03
	U-233	2.055E-32	2.045E-32	0.000E+00	0.000E+00		
	Th-229	7.566E-35	7.530E-35	0.000E+00	0.000E+00		
Ra-226		4.839E-33	4.838E-33	0.000E+00	0.000E+00	7.854E+12*	2.540E+04
	Pb-210	4.908E-33	4.907E-33	0.000E+00	0.000E+00		
U-235		3.997E-28	3.983E-28	0.000E+00	0.000E+00	3.702E+05*	1.602E+03
	Pa-231	9.383E-30	9.350E-30	0.000E+00	0.000E+00		
	Ac-227	1.058E-30	1.054E-30	0.000E+00	0.000E+00		
U-238		2.658E-27	2.649E-27	0.000E+00	0.000E+00	2.815E+05*	1.602E+03
	U-234	1.202E-29	1.198E-29	0.000E+00	0.000E+00		
	Th-230	5.107E-32	5.090E-32	0.000E+00	0.000E+00		
	Ra-226	1.013E-32	1.010E-32	0.000E+00	0.000E+00		
	Pb-210	9.584E-33	9.552E-33	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+03, 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)

Np-237		3.128E-36	2.281E-36	0.000E+00	0.000E+00	8.495E+12*	1.373E+03
	U-233	1.559E-38	1.136E-38	0.000E+00	0.000E+00		
	Th-229	5.862E-41	4.274E-41	0.000E+00	0.000E+00		
Ra-226		1.759E-39	1.594E-39	0.000E+00	0.000E+00	2.384E+19*	2.557E+04
	Pb-210	1.784E-39	1.617E-39	0.000E+00	0.000E+00		
U-235		2.965E-34	2.072E-34	0.000E+00	0.000E+00	7.117E+11*	1.639E+03
	Pa-231	7.115E-36	4.973E-36	0.000E+00	0.000E+00		
	Ac-227	8.026E-37	5.609E-37	0.000E+00	0.000E+00		
U-238		1.972E-33	1.378E-33	0.000E+00	0.000E+00	5.411E+11*	1.639E+03
	U-234	9.121E-36	6.375E-36	0.000E+00	0.000E+00		
	Th-230	3.957E-38	2.766E-38	0.000E+00	0.000E+00		
	Ra-226	8.004E-39	5.595E-39	0.000E+00	0.000E+00		
	Pb-210	7.579E-39	5.298E-39	0.000E+00	0.000E+00		

Receptor Location X. Y. Z. (meters): 7.550E+01. 1.200E+03. 1.500E+01

Contaminant Name		Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Np-237		4.792E-43	1.303E-43	0.000E+00	0.000E+00	1.481E+20*	1.472E+03
	U-233	2.803E-45	0.000E+00	0.000E+00	0.000E+00		
	Th-229	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
Ra-226		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00*	0.000E+00
	Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
U-235		4.536E-41	1.252E-41	0.000E+00	0.000E+00	1.178E+19*	1.757E+03
	Pa-231	1.166E-42	3.209E-43	0.000E+00	0.000E+00		
	Ac-227	1.317E-43	3.643E-44	0.000E+00	0.000E+00		
U-238		3.018E-40	8.329E-41	0.000E+00	0.000E+00	8.955E+18*	1.757E+03
	U-234	1.497E-42	4.120E-43	0.000E+00	0.000E+00		
	Th-230	7.006E-45	1.401E-45	0.000E+00	0.000E+00		
	Ra-226	1.401E-45	0.000E+00	0.000E+00	0.000E+00		
	Pb-210	1.401E-45	0.000E+00	0.000E+00	0.000E+00		

TIME OF RUN 17:53:48.4
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\15-rad.max

```
 ***************************************************
 *                                                 *
 *     This output was produced by the model:      *
 *                    GWMENU                       *
 *         Version 1.01: Beta Test Version         *
 * A menu-driven pre-processor for the groundwater *
 * pathway screening model GWSCREEN Version 2.5    *
 *              GWSCREEN Copyright (C) 1992,       *
 *   Lockheed Martin Idaho Technologies Company   *
 *      GWMENU (C) Copyright 1996, K-Spar Inc.     *
 *                    09-15-97                     *
 *                   K-Spar Inc.                   *
 *         493 N 4154 E Rigby Idaho 83442          *
 *         (208) 745-8068 email asr@srv.net        *
 ***************************************************
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TITLE: CFA-15 max, rad (Ra-226)
---------- MODEL OPTIONS ----------
Type of Output: Limiting Conc
Integration Method: Gaussian Quad
Source Model Type: Surface/Buried
Dose Criteria: MCL for Radionuclide
---------- SOURCE PARAMETERS ----------

```
X Coordinate (m):   -2.097E+02  Y Coordinate (m):    2.454E+01
Source Length (m):   1.000E+00  Source Width (m):    1.000E+00
Thickness (m):       7.900E+00  Bulk Density (g/cc): 1.500E+00
Percolation (m/y):   1.000E-01  Moisture Content:    3.000E-01
------------ UNSATURATED ZONE PARAMETERS -----------
Unsat Thickness (m): 1.350E+01  Moisture Content:    3.000E-01
Total Porosity:      4.870E-01  Bulk Density:        1.500E+00
---------------- AQUIFER PARAMETERS ----------------
Solution Type:    2D Averaged
Pore Velocity (m/y):        5.700E+02 Aquifer Porosity:          1.000E-01
Longitudinal Disp (m):      9.000E+00 Transverse Disp (m):       4.000E+00
Vertical Disp (m):          n/a       Well Screen Thickness (m):  1.500E+01
Bulk Density (g/cc):        1.900E+00 Number of Receptors:       11
--------------- EXPOSURE PARAMETERS ----------------
Dose Impacts Base on: MCL (Ci/L)
Body Weight (kg):           7.000E+01 Averaging Time (d):        2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y):  3.500E+02
Exposure Duration (y):      3.000E+01
---------------------------------------------------- CONTAMINANT PARAMETERS ----------------------------------------------
Contaminant Name          Inventory    Dose      Molar    Half Life  Kd Source  Kd Unsat  Kd Aquifer Additional Solubility
                                       Factor    Weight                                               Loss Rate   Limit
                            (Ci)     MCL (Ci/L) (g/mole)   (years)    (mL/g)     (mL/g)     (mL/g)     (1/y)     (mg/L)
-------------------------------------------------------------------------------------------------------------------------
Ra-226                    7.452E-06  2.000E-11  2.260E+02  1.600E+03  1.000E+02  1.000E+02  1.000E+02  0.000E+00  1.000E+06
  Pb-210                             6.700E+06             2.230E+01                        1.000E+02
-------------------------------------------- RESULTS ----------------------------------------------
* = Limiting pore water concentration exceeds solubility
Receptor Location X, Y, Z, (meters): -2.092E+02, 2.454E+01, 1.500E+01
  Contaminant Name      Maximum      Average      Maximum      Average      Limiting     Peak Time
                      Concentration Concentration  Impacts      Impacts    Concentration   (years)
                         (Ci/L)       (Ci/L)       (MCL)        (MCL)        (Ci/kg)
-----------------------------------------------------------------------------------------------------
Ra-226                8.508E-21    8.335E-21    0.000E+00    0.000E+00    1.509E+00    2.031E+04
            Pb-210    8.628E-21    8.453E-21    0.000E+00    0.000E+00
Receptor Location X, Y, Z, (meters): 7.550E+01,-2.000E+02, 1.500E+01
  Contaminant Name      Maximum      Average      Maximum      Average      Limiting     Peak Time
                      Concentration Concentration  Impacts      Impacts    Concentration   (years)
                         (Ci/L)       (Ci/L)       (MCL)        (MCL)        (Ci/kg)
-----------------------------------------------------------------------------------------------------
Ra-226                4.945E-26    4.875E-26    0.000E+00    0.000E+00    2.580E+05*   2.223E+04
            Pb-210    5.015E-26    4.944E-26    0.000E+00    0.000E+00
Receptor Location X, Y, Z, (meters): 7.550E+01, 0.000E+00, 1.500E+01
  Contaminant Name      Maximum      Average      Maximum      Average      Limiting     Peak Time
                      Concentration Concentration  Impacts      Impacts    Concentration   (years)
                         (Ci/L)       (Ci/L)       (MCL)        (MCL)        (Ci/kg)
-----------------------------------------------------------------------------------------------------
Ra-226                4.007E-22    3.995E-22    0.000E+00    0.000E+00    3.149E+01    2.164E+04
            Pb-210    4.064E-22    4.051E-22    0.000E+00    0.000E+00
Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+02, 1.500E+01
  Contaminant Name      Maximum      Average      Maximum      Average      Limiting     Peak Time
                      Concentration Concentration  Impacts      Impacts    Concentration   (years)
                         (Ci/L)       (Ci/L)       (MCL)        (MCL)        (Ci/kg)
-----------------------------------------------------------------------------------------------------
Ra-226                1.295E-22    1.290E-22    0.000E+00    0.000E+00    9.750E+01    2.170E+04
            Pb-210    1.313E-22    1.308E-22    0.000E+00    0.000E+00
Receptor Location X, Y, Z, (meters): 7.550E+01, 2.000E+02, 1.500E+01
  Contaminant Name      Maximum      Average      Maximum      Average      Limiting     Peak Time
                      Concentration Concentration  Impacts      Impacts    Concentration   (years)
                         (Ci/L)       (Ci/L)       (MCL)        (MCL)        (Ci/kg)
-----------------------------------------------------------------------------------------------------
Ra-226                1.085E-24    1.083E-24    0.000E+00    0.000E+00    1.161E+04    2.203E+04
            Pb-210    1.100E-24    1.098E-24    0.000E+00    0.000E+00
Receptor Location X, Y, Z, (meters): 7.550E+01, 3.000E+02, 1.500E+01
  Contaminant Name      Maximum      Average      Maximum      Average      Limiting     Peak Time
                      Concentration Concentration  Impacts      Impacts    Concentration   (years)
                         (Ci/L)       (Ci/L)       (MCL)        (MCL)        (Ci/kg)
-----------------------------------------------------------------------------------------------------
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Ra-226		1.418E-27	1.400E-27	0.000E+00	0.000E+00	8.982E+06*	2.236E+04
	Pb-210	1.438E-27	1.420E-27	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 4.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Ra-226	7.723E-31	7.722E-31	0.000E+00	0.000E+00	1.629E+10*	2.287E+04
Pb-210	7.832E-31	7.831E-31	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 6.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Ra-226	8.358E-38	8.192E-38	0.000E+00	0.000E+00	1.535E+17*	2.396E+04
Pb-210	8.476E-38	8.308E-38	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 8.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Ra-226	4.204E-45	1.401E-45	0.000E+00	0.000E+00	7.766E+24*	2.409E+04
Pb-210	4.204E-45	1.401E-45	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+03, 1.500E+01

Contaminant Name	Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00*	0.000E+00
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00		

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.200E+03, 1.500E+01

Contaminant Name	Maximum Concentration (Ci/L)	Average Concentration (Ci/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (Ci/kg)	Peak Time (years)
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00*	0.000E+00
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00		

TIME OF RUN 17:54:23.0
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\17a-nr.max

```
*****************************************************
*                                                   *
*     This output was produced by the model:        *
*                    GWMENU                         *
*         Version 1.01; Beta Test Version           *
* A menu-driven pre-processor for the groundwater   *
* pathway screening model GWSCREEN Version 2.5      *
*              GWSCREEN Copyright (C) 1992,         *
*   Lockheed Martin Idaho Technologies Company      *
*      GWMENU (C) Copyright 1996, K-Spar Inc.       *
*                    09-15-97                       *
*                   K-Spar Inc.                     *
*         493 N 4154 E Rigby Idaho 83442            *
*         (208) 745-8068 email asr@srv.net          *
*****************************************************
```


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TITLE: CFA-17a max, non-rad

```
----------------- MODEL OPTIONS ------------------
Type of Output:        Limiting Conc
Integration Method:    Gaussian Quad
Source Model Type:     Surface/Buried
Dose Criteria:         MCL for Non-radiological Contaminant
-------------- SOURCE PARAMETERS ----------------
X Coordinate (m):   -8.200E+03  Y Coordinate (m):    6.674E+02
Source Length (m):   4.861E+01  Source Width (m):    3.353E+01
Thickness (m):       3.810E+00  Bulk Density (g/cc): 1.500E+00
Percolation (m/y):   1.000E-01  Moisture Content:    3.000E-01
------------ UNSATURATED ZONE PARAMETERS -----------
Unsat Thickness (m): 1.850E+01  Moisture Content:    3.000E-01
Total Porosity:      4.870E-01  Bulk Density:        1.500E+00
--------------- AQUIFER PARAMETERS ---------------
Solution Type:    2D Averaged
Pore Velocity (m/y):        5.700E+02 Aquifer Porosity:           1.000E-01
Longitudinal Disp (m):      9.000E+00 Transverse Disp (m):        4.000E+00
Vertical Disp (m):         n/a        Well Screen Thickness (m):  1.500E+01
Bulk Density (g/cc):        1.900E+00 Number of Receptors:       11
-------------- EXPOSURE PARAMETERS ----------------
Dose Impacts Base on: MCL (mg/L)
Body Weight (kg):           7.000E+01 Averaging Time (d):         2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y):   3.500E+02
Exposure Duration (y):      3.000E+01
------------------------------------------------- CONTAMINANT PARAMETERS -------------------------------------------------
Contaminant Name          Inventory    Dose      Molar    Half Life  Kd Source  Kd Unsat  Kd Aquifer Additional Solubility
                                       Factor    Weight                                                Loss Rate    Limit
                            (mg)    MCL (mg/L) (g/mole)    (years)    (mL/g)     (mL/g)     (mL/g)      (1/y)     (mg/L)
--------------------------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene      7.917E+04  0.000E+00  2.763E+02  9.000E+09  4.740E+03  4.740E+03  4.740E+03  0.000E+00  1.000E+06
Phenanthrene              6.733E+04  0.000E+00  1.782E+02  9.000E+09  4.230E+01  4.230E+01  4.230E+01  0.000E+00  1.000E+06
---------------------------------------------- RESULTS ----------------------------------------------
* = Limiting pore water concentration exceeds solubility
Receptor Location X, Y, Z, (meters): -8.176E+03, 6.674E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration    (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene   6.696E-09     6.696E-09     0.000E+00     0.000E+00     0.000E+00     1.336E+06
Phenanthrene           6.354E-07     6.351E-07     0.000E+00     0.000E+00     0.000E+00     1.197E+04
Receptor Location X, Y, Z, (meters):  7.550E+01,-2.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration    (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene   1.221E-12     1.221E-12     0.000E+00     0.000E+00     0.000E+00     2.727E+06
Phenanthrene           1.160E-10     1.160E-10     0.000E+00     0.000E+00     0.000E+00     2.441E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 0.000E+00, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration    (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene   1.212E-11     1.212E-11     0.000E+00     0.000E+00     0.000E+00     2.720E+06
Phenanthrene           1.151E-09     1.151E-09     0.000E+00     0.000E+00     0.000E+00     2.435E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration    (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene   3.063E-11     3.063E-11     0.000E+00     0.000E+00     0.000E+00     2.716E+06
Phenanthrene           2.909E-09     2.909E-09     0.000E+00     0.000E+00     0.000E+00     2.431E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 2.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration    (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
--------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene   6.709E-11     6.709E-11     0.000E+00     0.000E+00     0.000E+00     2.713E+06
```

```
Phenanthrene            6.372E-09     6.372E-09     0.000E+00     0.000E+00     0.000E+00     2.428E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 3.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene    1.243E-10     1.243E-10     0.000E+00     0.000E+00     0.000E+00     2.713E+06
Phenanthrene            1.180E-08     1.180E-08     0.000E+00     0.000E+00     0.000E+00     2.428E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 4.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene    2.015E-10     2.015E-10     0.000E+00     0.000E+00     0.000E+00     2.708E+06
Phenanthrene            1.913E-08     1.913E-08     0.000E+00     0.000E+00     0.000E+00     2.423E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 6.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene    3.346E-10     3.346E-10     0.000E+00     0.000E+00     0.000E+00     2.707E+06
Phenanthrene            3.178E-08     3.177E-08     0.000E+00     0.000E+00     0.000E+00     2.423E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 8.000E+02, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene    3.033E-10     3.033E-10     0.000E+00     0.000E+00     0.000E+00     2.707E+06
Phenanthrene            2.881E-08     2.880E-08     0.000E+00     0.000E+00     0.000E+00     2.423E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.000E+03, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene    1.502E-10     1.502E-10     0.000E+00     0.000E+00     0.000E+00     2.708E+06
Phenanthrene            1.427E-08     1.426E-08     0.000E+00     0.000E+00     0.000E+00     2.423E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.200E+03, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene    4.084E-11     4.084E-11     0.000E+00     0.000E+00     0.000E+00     2.715E+06
Phenanthrene            3.879E-09     3.878E-09     0.000E+00     0.000E+00     0.000E+00     2.430E+04

TIME OF RUN 17:54:34.1
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\17b-rad.max
  ***************************************************
  *                                                 *
  *     This output was produced by the model:      *
  *                    GWMENU                       *
  *         Version 1.01: Beta Test Version         *
  * A menu-driven pre-processor for the groundwater *
  * pathway screening model GWSCREEN Version 2.5    *
  *              GWSCREEN Copyright (C) 1992,       *
  *   Lockheed Martin Idaho Technologies Company   *
  *      GWMENU (C) Copyright 1996, K-Spar Inc.     *
  *                    09-15-97                     *
  *                   K-Spar Inc.                   *
  *         493 N 4154 E Rigby Idaho 83442          *
  *         (208) 745-8068 email asr@srv.net        *
  ***************************************************
 ==================================================================
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TITLE: CFA-17b max, non-rad

---------- MODEL OPTIONS ----------

Type of Output: Limiting Conc
Integration Method: Gaussian Quad
Source Model Type: Surface/Buried
Dose Criteria: MCL for Non-radiological Contaminant

---------- SOURCE PARAMETERS ----------

X Coordinate (m): -8.234E+03 Y Coordinate (m): 6.549E+02
Source Length (m): 1.826E+01 Source Width (m): 1.814E+01
Thickness (m): 3.810E+00 Bulk Density (g/cc): 1.500E+00
Percolation (m/y): 1.000E-01 Moisture Content: 3.000E-01

---------- UNSATURATED ZONE PARAMETERS ----------

Unsat Thickness (m): 1.850E+01 Moisture Content: 3.000E-01
Total Porosity: 4.870E-01 Bulk Density: 1.500E+00

---------- AQUIFER PARAMETERS ----------

Solution Type: 2D Averaged
Pore Velocity (m/y): 5.700E+02 Aquifer Porosity: 1.000E-01
Longitudinal Disp (m): 9.000E+00 Transverse Disp (m): 4.000E+00
Vertical Disp (m): n/a Well Screen Thickness (m): 1.500E+01
Bulk Density (g/cc): 1.900E+00 Number of Receptors: 11

---------- EXPOSURE PARAMETERS ----------

Dose Impacts Base on: MCL (mg/L)
Body Weight (kg): 7.000E+01 Averaging Time (d): 2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y): 3.500E+02
Exposure Duration (y): 3.000E+01

---------- CONTAMINANT PARAMETERS ----------

Contaminant Name	Inventory (mg)	Dose Factor MCL (mg/L)	Molar Weight (g/mole)	Half Life (years)	Kd Source (mL/g)	Kd Unsat (mL/g)	Kd Aquifer (mL/g)	Additional Loss Rate (1/y)	Solubility Limit (mg/L)
Benzo(g_h_i)perylene	1.608E+04	0.000E+00	2.763E+02	9.000E+09	4.740E+03	4.740E+03	4.740E+03	0.000E+00	1.000E+06
Phenanthrene	1.368E+04	0.000E+00	1.782E+02	9.000E+09	4.230E+01	4.230E+01	4.230E+01	0.000E+00	1.000E+06

---------- RESULTS ----------

* = Limiting pore water concentration exceeds solubility

Receptor Location X, Y, Z, (meters): -8.225E+03, 6.549E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	2.114E-09	2.114E-09	0.000E+00	0.000E+00	0.000E+00	1.330E+06
Phenanthrene	2.007E-07	2.006E-07	0.000E+00	0.000E+00	0.000E+00	1.193E+04

Receptor Location X, Y, Z, (meters): 7.550E+01,-2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	2.957E-13	2.957E-13	0.000E+00	0.000E+00	0.000E+00	2.731E+06
Phenanthrene	2.809E-11	2.809E-11	0.000E+00	0.000E+00	0.000E+00	2.444E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 0.000E+00, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	2.810E-12	2.810E-12	0.000E+00	0.000E+00	0.000E+00	2.723E+06
Phenanthrene	2.670E-10	2.669E-10	0.000E+00	0.000E+00	0.000E+00	2.437E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	6.950E-12	6.950E-12	0.000E+00	0.000E+00	0.000E+00	2.723E+06
Phenanthrene	6.603E-10	6.600E-10	0.000E+00	0.000E+00	0.000E+00	2.437E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	1.507E-11	1.507E-11	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	1.432E-09	1.430E-09	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 3.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	2.709E-11	2.709E-11	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	2.574E-09	2.571E-09	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 4.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	4.302E-11	4.302E-11	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	4.087E-09	4.084E-09	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 6.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	6.866E-11	6.866E-11	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	6.524E-09	6.518E-09	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 8.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	5.993E-11	5.993E-11	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	5.694E-09	5.689E-09	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+03, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	2.856E-11	2.856E-11	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	2.713E-09	2.711E-09	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.200E+03, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	7.534E-12	7.534E-12	0.000E+00	0.000E+00	0.000E+00	2.722E+06
Phenanthrene	7.159E-10	7.155E-10	0.000E+00	0.000E+00	0.000E+00	2.437E+04

TIME OF RUN 17:55:03.7
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\26-nr.max

```
**************************************************
*                                                *
*     This output was produced by the model:     *
*                    GWMENU                      *
*         Version 1.01; Beta Test Version        *
* A menu-driven pre-processor for the groundwater *
* pathway screening model GWSCREEN Version 2.5   *
*             GWSCREEN Copyright (C) 1992,       *
*   Lockheed Martin Idaho Technologies Company   *
*      GWMENU (C) Copyright 1996, K-Spar Inc.    *
*                    09-15-97                    *
*                   K-Spar Inc.                  *
*         493 N 4154 E Rigby Idaho 83442         *
*         (208) 745-8068 email asr@srv.net       *
**************************************************
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TITLE: CFA-26 max, non-rad

---------- MODEL OPTIONS ----------

Type of Output: Limiting Conc
Integration Method: Gaussian Quad
Source Model Type: Surface/Buried
Dose Criteria: MCL for Non-radiological Contaminant

---------- SOURCE PARAMETERS ----------

X Coordinate (m): -3.667E+02 Y Coordinate (m): 8.642E+01
Source Length (m): 3.050E+01 Source Width (m): 3.050E+01
Thickness (m): 5.000E+00 Bulk Density (g/cc): 1.500E+00
Percolation (m/y): 1.000E-01 Moisture Content: 3.000E-01

---------- UNSATURATED ZONE PARAMETERS ----------

Unsat Thickness (m): 1.300E+01 Moisture Content: 3.000E-01
Total Porosity: 4.870E-01 Bulk Density: 1.500E+00

---------- AQUIFER PARAMETERS ----------

Solution Type: 2D Averaged
Pore Velocity (m/y): 5.700E+02 Aquifer Porosity: 1.000E-01
Longitudinal Disp (m): 9.000E+00 Transverse Disp (m): 4.000E+00
Vertical Disp (m): n/a Well Screen Thickness (m): 1.500E+01
Bulk Density (g/cc): 1.900E+00 Number of Receptors: 11

---------- EXPOSURE PARAMETERS ----------

Dose Impacts Base on: MCL (mg/L)
Body Weight (kg): 7.000E+01 Averaging Time (d): 2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y): 3.500E+02
Exposure Duration (y): 3.000E+01

---------- CONTAMINANT PARAMETERS ----------

Contaminant Name	Inventory (mg)	Dose Factor MCL (mg/L)	Molar Weight (g/mole)	Half Life (years)	Kd Source (mL/g)	Kd Unsat (mL/g)	Kd Aquifer (mL/g)	Additional Loss Rate (1/y)	Solubility Limit (mg/L)
Chlorodifluoromethane	6.977E+05	8.700E+01	8.650E+01	9.000E+09	1.730E-01	1.730E-01	1.730E-01	0.000E+00	1.000E+06
Di-n-butylphthalate	3.419E+06	4.000E+00	2.784E+02	9.000E+09	1.020E+02	1.020E+02	1.020E+02	0.000E+00	1.000E+06
Phenol	2.163E+05	2.200E+01	9.411E+01	9.000E+09	8.640E-02	8.640E-02	8.640E-02	0.000E+00	1.000E+06
TPH-diesel	2.421E+10	0.000E+00	1.530E+01	9.000E+09	1.780E+00	1.780E+00	1.780E+00	0.000E+00	1.000E+06

---------- RESULTS ----------

* = Limiting pore water concentration exceeds solubility

Receptor Location X, Y, Z, (meters): -3.515E+02, 8.642E+01, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	6.703E-04	4.249E-04	0.000E+00	0.000E+00	2.048E+04	7.371E+01
Di-n-butylphthalate	1.178E-05	1.178E-05	0.000E+00	0.000E+00	1.664E+05	2.033E+04
Phenol	2.722E-04	1.511E-04	0.000E+00	0.000E+00	4.514E+03	5.647E+01
TPH-diesel	4.320E+00	3.915E+00	0.000E+00	0.000E+00	0.000E+00	3.934E+02

Receptor Location X, Y, Z, (meters): 7.550E+01,-2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	1.077E-08	6.517E-09	0.000E+00	0.000E+00	1.335E+09*	7.949E+01
Di-n-butylphthalate	1.844E-10	1.843E-10	0.000E+00	0.000E+00	1.064E+10*	2.284E+04
Phenol	4.413E-09	2.441E-09	0.000E+00	0.000E+00	2.794E+08*	6.004E+01
TPH-diesel	6.792E-05	6.220E-05	0.000E+00	0.000E+00	0.000E+00	4.384E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 0.000E+00, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)

Chlorodifluoromethan	6.343E-05	3.924E-05	0.000E+00	0.000E+00	2.218E+05	7.811E+01
Di-n-butylphthalate	1.090E-06	1.090E-06	0.000E+00	0.000E+00	1.799E+06	2.226E+04
Phenol	2.595E-05	1.437E-05	0.000E+00	0.000E+00	4.746E+04	5.918E+01
TPH-diesel	4.011E-01	3.630E-01	0.000E+00	0.000E+00	0.000E+00	4.281E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	1.735E-04	1.076E-04	0.000E+00	0.000E+00	8.087E+04	7.794E+01
Di-n-butylphthalate	2.983E-06	2.983E-06	0.000E+00	0.000E+00	6.572E+05	2.218E+04
Phenol	7.099E-05	3.941E-05	0.000E+00	0.000E+00	1.731E+04	5.908E+01
TPH-diesel	1.098E+00	9.965E-01	0.000E+00	0.000E+00	0.000E+00	4.272E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	3.074E-05	1.898E-05	0.000E+00	0.000E+00	4.585E+05*	7.815E+01
Di-n-butylphthalate	5.280E-07	5.280E-07	0.000E+00	0.000E+00	3.713E+06	2.230E+04
Phenol	1.258E-05	6.957E-06	0.000E+00	0.000E+00	9.804E+04	5.928E+01
TPH-diesel	1.944E-01	1.755E-01	0.000E+00	0.000E+00	0.000E+00	4.288E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 3.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	5.501E-07	3.356E-07	0.000E+00	0.000E+00	2.592E+07*	7.890E+01
Di-n-butylphthalate	9.437E-09	9.433E-09	0.000E+00	0.000E+00	2.078E+08*	2.259E+04
Phenol	2.254E-07	1.241E-07	0.000E+00	0.000E+00	5.495E+06*	5.966E+01
TPH-diesel	3.475E-03	3.169E-03	0.000E+00	0.000E+00	0.000E+00	4.338E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 4.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	2.119E-09	1.279E-09	0.000E+00	0.000E+00	6.803E+09*	7.968E+01
Di-n-butylphthalate	3.621E-11	3.621E-11	0.000E+00	0.000E+00	5.414E+10*	2.298E+04
Phenol	8.677E-10	4.810E-10	0.000E+00	0.000E+00	1.418E+09*	6.022E+01
TPH-diesel	1.334E-05	1.240E-05	0.000E+00	0.000E+00	0.000E+00	4.414E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 6.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	2.693E-15	1.563E-15	0.000E+00	0.000E+00	5.566E+15*	8.173E+01
Di-n-butylphthalate	4.578E-17	4.578E-17	0.000E+00	0.000E+00	4.282E+16*	2.388E+04
Phenol	1.105E-15	5.975E-16	0.000E+00	0.000E+00	1.142E+15*	6.146E+01
TPH-diesel	1.688E-11	1.585E-11	0.000E+00	0.000E+00	0.000E+00	4.574E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 8.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	7.465E-22	4.111E-22	0.000E+00	0.000E+00	2.116E+22*	8.374E+01
Di-n-butylphthalate	1.277E-23	1.253E-23	0.000E+00	0.000E+00	1.564E+23*	2.467E+04
Phenol	3.064E-22	1.654E-22	0.000E+00	0.000E+00	4.124E+21*	6.263E+01
TPH-diesel	4.705E-18	4.227E-18	0.000E+00	0.000E+00	0.000E+00	4.713E+02

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+03, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Chlorodifluoromethan	5.466E-29	2.659E-29	0.000E+00	0.000E+00	3.272E+29*	8.468E+01
Di-n-butylphthalate	9.610E-31	8.860E-31	0.000E+00	0.000E+00	2.212E+30*	2.533E+04
Phenol	2.218E-29	1.163E-29	0.000E+00	0.000E+00	5.865E+28*	6.321E+01

```
TPH-diesel              3.523E-25     2.058E-25     0.000E+00     0.000E+00     0.000E+00     4.831E+02
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.200E+03, 1.500E+01
  Contaminant Name       Maximum       Average       Maximum       Average       Limiting      Peak Time
                       Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)         (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------
Chlorodifluoromethan   0.000E+00     0.000E+00     0.000E+00     0.000E+00     0.000E+00*    0.000E+00
Di-n-butylphthalate    0.000E+00     0.000E+00     0.000E+00     0.000E+00     0.000E+00*    0.000E+00
Phenol                 0.000E+00     0.000E+00     0.000E+00     0.000E+00     0.000E+00*    0.000E+00
TPH-diesel             0.000E+00     0.000E+00     0.000E+00     0.000E+00     0.000E+00*    0.000E+00

TIME OF RUN 17:55:27.0
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\42-nr.max
  ***************************************************
  *                                                 *
  *     This output was produced by the model:      *
  *                    GWMENU                       *
  *        Version 1.01: Beta Test Version          *
  * A menu-driven pre-processor for the groundwater *
  * pathway screening model GWSCREEN Version 2.5    *
  *             GWSCREEN Copyright (C) 1992.        *
  *   Lockheed Martin Idaho Technologies Company   *
  *      GWMENU (C) Copyright 1996, K-Spar Inc.     *
  *                    09-15-97                     *
  *                   K-Spar Inc.                   *
  *         493 N 4154 E Rigby Idaho 83442          *
  *         (208) 745-8068 email asr@srv.net        *
  ***************************************************
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 ==================================================================

TITLE: CFA-42 max, non-rad (Phenanthrene)
------------------ MODEL OPTIONS -------------------
Type of Output:        Limiting Conc
Integration Method:    Gaussian Quad
Source Model Type:     Surface/Buried
Dose Criteria:         MCL for Non-radiological Contaminant
--------------- SOURCE PARAMETERS -----------------
X Coordinate (m):   -1.176E+03  Y Coordinate (m):    9.607E+02
Source Length (m):   9.144E+00  Source Width (m):    9.144E+00
Thickness (m):       1.500E-01  Bulk Density (g/cc): 1.500E+00
Percolation (m/y):   1.000E-01  Moisture Content:    3.000E-01
------------ UNSATURATED ZONE PARAMETERS -----------
Unsat Thickness (m): 4.090E+01  Moisture Content:    3.000E-01
Total Porosity:      4.870E-01  Bulk Density:        1.500E+00
---------------- AQUIFER PARAMETERS ----------------
Solution Type:    2D Averaged
Pore Velocity (m/y):        5.700E+02 Aquifer Porosity:          1.000E-01
Longitudinal Disp (m):      9.000E+00 Transverse Disp (m):       4.000E+00
Vertical Disp (m):         n/a        Well Screen Thickness (m):  1.500E+01
Bulk Density (g/cc):        1.900E+00 Number of Receptors:       11
--------------- EXPOSURE PARAMETERS ----------------
Dose Impacts Base on: MCL (mg/L)
Body Weight (kg):           7.000E+01 Averaging Time (d):        2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y):  3.500E+02
Exposure Duration (y):      3.000E+01
---------------------------------------------------- CONTAMINANT PARAMETERS ----------------------------------------------------
Contaminant Name          Inventory     Dose       Molar    Half Life  Kd Source  Kd Unsat  Kd Aquifer Additional Solubility
                                       Factor     Weight                                                Loss Rate    Limit
                            (mg)     MCL (mg/L)  (g/mole)    (years)    (mL/g)     (mL/g)     (mL/g)      (1/y)      (mg/L)
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-----------------------------------------------------------------------------------------------------------------------
Phenanthrene              5.083E+01  0.000E+00  1.782E+02  9.000E+09  4.230E+01  4.230E+01  4.230E+01  0.000E+00  1.000E+06
---------------------------------------------- RESULTS ----------------------------------------------
* = Limiting pore water concentration exceeds solubility
Receptor Location X, Y, Z, (meters): -1.172E+03, 9.607E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           1.865E-08     1.823E-08     0.000E+00     0.000E+00     0.000E+00     2.610E+04
Receptor Location X, Y, Z, (meters):  7.550E+01,-2.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           6.225E-32     4.296E-32     0.000E+00     0.000E+00     0.000E+00     2.948E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 0.000E+00, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           4.081E-26     3.983E-26     0.000E+00     0.000E+00     0.000E+00     2.882E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           1.949E-23     1.948E-23     0.000E+00     0.000E+00     0.000E+00     2.867E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 2.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           6.827E-21     6.822E-21     0.000E+00     0.000E+00     0.000E+00     2.853E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 3.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           1.597E-18     1.592E-18     0.000E+00     0.000E+00     0.000E+00     2.837E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 4.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           2.311E-16     2.295E-16     0.000E+00     0.000E+00     0.000E+00     2.828E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 6.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           7.635E-13     7.628E-13     0.000E+00     0.000E+00     0.000E+00     2.806E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 8.000E+02, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           1.137E-10     1.134E-10     0.000E+00     0.000E+00     0.000E+00     2.794E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.000E+03, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
                         (mg/L)        (mg/L)        (MCL)         (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------------------
Phenanthrene           3.818E-10     3.815E-10     0.000E+00     0.000E+00     0.000E+00     2.791E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.200E+03, 1.500E+01
  Contaminant Name      Maximum       Average       Maximum       Average       Limiting      Peak Time
                      Concentration Concentration    Impacts       Impacts     Concentration   (years)
```

```
                        (mg/L)        (mg/L)        (MCL)        (MCL)        (mg/kg)
-----------------------------------------------------------------------------------------------------------
Phenanthrene          2.419E-11     2.417E-11     0.000E+00    0.000E+00    0.000E+00    2.798E+04

TIME OF RUN 17:55:52.8
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\47-nr.max
  ***************************************************
  *                                                 *
  *     This output was produced by the model:      *
  *                    GWMENU                       *
  *         Version 1.01: Beta Test Version         *
  * A menu-driven pre-processor for the groundwater *
  * pathway screening model GWSCREEN Version 2.5    *
  *             GWSCREEN Copyright (C) 1992.        *
  *   Lockheed Martin Idaho Technologies Company   *
  *      GWMENU (C) Copyright 1996. K-Spar Inc.     *
  *                    09-15-97                     *
  *                   K-Spar Inc.                   *
  *         493 N 4154 E Rigby Idaho 83442          *
  *         (208) 745-8068 email asr@srv.net        *
  ***************************************************
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 ==================================================================

TITLE: CFA-47 max. non-rad
------------------ MODEL OPTIONS -------------------
Type of Output:        Limiting Conc
Integration Method:    Gaussian Quad
Source Model Type:     Surface/Buried
Dose Criteria:         MCL for Non-radiological Contaminant
--------------- SOURCE PARAMETERS ------------------
X Coordinate (m):   -8.200E+03  Y Coordinate (m):    7.084E+02
Source Length (m):   1.000E+00  Source Width (m):    1.000E+00
Thickness (m):       3.810E+00  Bulk Density (g/cc): 1.500E+00
Percolation (m/y):   1.000E-01  Moisture Content:    3.000E-01
------------ UNSATURATED ZONE PARAMETERS -----------
Unsat Thickness (m): 1.850E+01  Moisture Content:    3.000E-01
Total Porosity:      4.870E-01  Bulk Density:        1.500E+00
---------------- AQUIFER PARAMETERS ----------------
Solution Type:    2D Averaged
Pore Velocity (m/y):        5.700E+02 Aquifer Porosity:           1.000E-01
Longitudinal Disp (m):      9.000E+00 Transverse Disp (m):        4.000E+00
Vertical Disp (m):         n/a        Well Screen Thickness (m):  1.500E+01
Bulk Density (g/cc):        1.900E+00 Number of Receptors:       11
--------------- EXPOSURE PARAMETERS ----------------
Dose Impacts Base on: MCL (mg/L)
Body Weight (kg):           7.000E+01 Averaging Time (d):         2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y):   3.500E+02
Exposure Duration (y):      3.000E+01
------------------------------------------------- CONTAMINANT PARAMETERS -------------------------------------------------
Contaminant Name          Inventory     Dose       Molar    Half Life  Kd Source  Kd Unsat  Kd Aquifer Additional Solubility
                                       Factor     Weight                                                Loss Rate    Limit
                            (mg)     MCL (mg/L)  (g/mole)    (years)    (mL/g)     (mL/g)     (mL/g)      (1/y)      (mg/L)
-----------------------------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene      4.478E+01  0.000E+00  2.763E+02  9.000E+09  4.740E+03  4.740E+03  4.740E+03  0.000E+00  1.000E+06
Phenanthrene              3.808E+01  0.000E+00  1.782E+02  9.000E+09  4.230E+01  4.230E+01  4.230E+01  0.000E+00  1.000E+06
------------------------------------------- RESULTS ----------------------------------------------
* = Limiting pore water concentration exceeds solubility
Receptor Location X. Y. Z. (meters): -8.200E+03. 7.084E+02. 1.500E+01
  Contaminant Name       Maximum        Average        Maximum        Average       Limiting      Peak Time
```

	Concentration (mg/L)	Concentration (mg/L)	Impacts (MCL)	Impacts (MCL)	Concentration (mg/kg)	(years)
Benzo(g_h_i)perylene	1.481E-11	1.481E-11	0.000E+00	0.000E+00	0.000E+00	1.316E+06
Phenanthrene	1.405E-09	1.442E-09	0.000E+00	0.000E+00	0.000E+00	1.180E+04

Receptor Location X, Y, Z, (meters): 7.550E+01,-2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	3.976E-16	3.976E-16	0.000E+00	0.000E+00	0.000E+00	2.727E+06
Phenanthrene	3.776E-14	3.780E-14	0.000E+00	0.000E+00	0.000E+00	2.441E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 0.000E+00, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	4.471E-15	4.471E-15	0.000E+00	0.000E+00	0.000E+00	2.719E+06
Phenanthrene	4.246E-13	4.247E-13	0.000E+00	0.000E+00	0.000E+00	2.434E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	1.202E-14	1.202E-14	0.000E+00	0.000E+00	0.000E+00	2.717E+06
Phenanthrene	1.141E-12	1.143E-12	0.000E+00	0.000E+00	0.000E+00	2.431E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 2.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	2.785E-14	2.785E-14	0.000E+00	0.000E+00	0.000E+00	2.716E+06
Phenanthrene	2.645E-12	2.646E-12	0.000E+00	0.000E+00	0.000E+00	2.431E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 3.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	5.637E-14	5.626E-14	0.000E+00	0.000E+00	0.000E+00	2.715E+06
Phenanthrene	5.353E-12	5.298E-12	0.000E+00	0.000E+00	0.000E+00	2.430E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 4.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	9.722E-14	9.722E-14	0.000E+00	0.000E+00	0.000E+00	2.713E+06
Phenanthrene	9.233E-12	9.233E-12	0.000E+00	0.000E+00	0.000E+00	2.428E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 6.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	1.791E-13	1.791E-13	0.000E+00	0.000E+00	0.000E+00	2.710E+06
Phenanthrene	1.701E-11	1.702E-11	0.000E+00	0.000E+00	0.000E+00	2.425E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 8.000E+02, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	1.838E-13	1.838E-13	0.000E+00	0.000E+00	0.000E+00	2.709E+06
Phenanthrene	1.745E-11	1.746E-11	0.000E+00	0.000E+00	0.000E+00	2.425E+04

Receptor Location X, Y, Z, (meters): 7.550E+01, 1.000E+03, 1.500E+01

Contaminant Name	Maximum Concentration (mg/L)	Average Concentration (mg/L)	Maximum Impacts (MCL)	Average Impacts (MCL)	Limiting Concentration (mg/kg)	Peak Time (years)
Benzo(g_h_i)perylene	1.026E-13	1.026E-13	0.000E+00	0.000E+00	0.000E+00	2.711E+06

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Phenanthrene            9.744E-12      9.744E-12      0.000E+00      0.000E+00      0.000E+00      2.426E+04
Receptor Location X, Y, Z, (meters):  7.550E+01, 1.200E+03, 1.500E+01
  Contaminant Name       Maximum        Average        Maximum        Average       Limiting       Peak Time
                       Concentration  Concentration     Impacts        Impacts     Concentration    (years)
                         (mg/L)         (mg/L)          (MCL)          (MCL)         (mg/kg)
-----------------------------------------------------------------------------------------------------------
Benzo(g_h_i)perylene   3.160E-14      3.160E-14      0.000E+00      0.000E+00      0.000E+00      2.716E+06
Phenanthrene           3.001E-12      3.003E-12      0.000E+00      0.000E+00      0.000E+00      2.431E+04

TIME OF RUN 17:56:19.4
DATE OF RUN 04/22/98
FILE NAME: c:\mydocu~1\WAG4\new\out\52-nr.max
  ***************************************************
  *                                                 *
  *     This output was produced by the model:      *
  *                    GWMENU                       *
  *        Version 1.01: Beta Test Version          *
  * A menu-driven pre-processor for the groundwater *
  * pathway screening model GWSCREEN Version 2.5    *
  *             GWSCREEN Copyright (C) 1992,        *
  *   Lockheed Martin Idaho Technologies Company   *
  *      GWMENU (C) Copyright 1996, K-Spar Inc.     *
  *                    09-15-97                     *
  *                   K-Spar Inc.                   *
  *        493 N 4154 E Rigby Idaho 83442           *
  *        (208) 745-8068 email asr@srv.net         *
  ***************************************************
 ==================================================================
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 ==================================================================

TITLE: CFA-52 max, non-rad
----------------- MODEL OPTIONS -------------------
Type of Output:        Limiting Conc
Integration Method:    Gaussian Quad
Source Model Type:     Surface/Buried
Dose Criteria:         MCL for Non-radiological Contaminant
--------------- SOURCE PARAMETERS -----------------
X Coordinate (m):   -7.205E+02  Y Coordinate (m):    2.105E+02
Source Length (m):   3.500E+00  Source Width (m):    2.400E+00
Thickness (m):       2.900E+00  Bulk Density (g/cc): 1.500E+00
Percolation (m/y):   1.000E-01  Moisture Content:    3.000E-01
------------ UNSATURATED ZONE PARAMETERS -----------
Unsat Thickness (m): 1.350E+01  Moisture Content:    3.000E-01
Total Porosity:      4.870E-01  Bulk Density:        1.500E+00
---------------- AQUIFER PARAMETERS ----------------
Solution Type:    2D Averaged
Pore Velocity (m/y):        5.700E+02 Aquifer Porosity:          1.000E-01
Longitudinal Disp (m):      9.000E+00 Transverse Disp (m):       4.000E+00
Vertical Disp (m):          n/a       Well Screen Thickness (m): 1.500E+01
Bulk Density (g/cc):        1.900E+00 Number of Receptors:       11
--------------- EXPOSURE PARAMETERS ----------------
Dose Impacts Base on: MCL (mg/L)
Body Weight (kg):           7.000E+01 Averaging Time (d):        2.556E+04
Water Ingestion Rate (L/d): 2.000E+00 Exposure Frequency (d/y):  3.500E+02
Exposure Duration (y):      3.000E+01
---------------------------------------------------- CONTAMINANT PARAMETERS ----------------------------------------------
Contaminant Name          Inventory     Dose       Molar    Half Life  Kd Source  Kd Unsat  Kd Aquifer Additional Solubility
                                       Factor     Weight                                                Loss Rate    Limit
                            (mg)     MCL (mg/L)  (g/mole)    (years)    (mL/g)     (mL/g)     (mL/g)      (1/y)      (mg/L)
-----------------------------------------------------------------------------------------------------------------------------
Tetrachloroethene         9.500E+02  1.100E-03  1.658E+02  9.000E+09  7.890E-01  7.890E-01  7.890E-01  0.000E+00  1.000E+06
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