

# CASE 1:

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                        PESTAN  
                        version 4.0, 1992.  
  
Developed by :  
  
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Title: Valencia Aldaia

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Solubility (mg/l) .....: 0.14000E+01  
Recharge rate (cm/hr).....: 0.51400E-02  
Sorption constant (cc/g).....: 0.25560E+01  
Saturated water content .....: 0.43500E+00  
Solid-phase decay (/hr) .....: 0.63000E-01  
Liquid-phase decay (/hr) .....: 0.10000E-02  
Curve coefficient .....: 0.49000E+01  
Bulk density (g/cc).....: 0.13350E+01  
Dispersion coefficient (cm^2/hr).....: 0.60000E-01  
Saturated hydraulic conductivity ....: 0.44200E+01  
Minimum depth (cm).....: 0.00000E+00  
Maximum depth (cm).....: 0.50000E+03  
Minimum time (day).....: 0.00000E+00  
Maximum time (day).....: 0.80000E+04
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For application 1 the active ingredient (ai) applied is 0.200E+01 kg  
ai/ha,  
and has been applied 0.000E+00 days prior to recharge

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Results

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Projected water content .....: 0.257E+00  
Pore water velocity [cm/hr] .....: 0.200E-01  
Pollutant velocity [cm/hr] .....: 0.140E-02  
Length of pollutant slug [cm] .....: 0.389E+01  
Mass decayed prior to recharge [kg] .....: 0.000E+00
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Time = 0.50E+02 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
5.000	0.18E+00	0.45E+00	0.64E+00
50.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
150.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00
250.000	0.00E+00	0.00E+00	0.00E+00
300.000	0.00E+00	0.00E+00	0.00E+00
350.000	0.00E+00	0.00E+00	0.00E+00
400.000	0.00E+00	0.00E+00	0.00E+00
450.000	0.00E+00	0.00E+00	0.00E+00
500.000	0.00E+00	0.00E+00	0.00E+00

# MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.153E+00  
 Pollutant remaining in solid-phase (kg) = 0.204E+01  
 Total mass of pollutant remaining (kg) = 0.219E+01  
 Liquid-phase decay of pollutant (kg) = 0.192E+00

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Time = 0.10E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
5.000	0.29E+00	0.75E+00	0.11E+01
50.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
150.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00
250.000	0.00E+00	0.00E+00	0.00E+00
300.000	0.00E+00	0.00E+00	0.00E+00
350.000	0.00E+00	0.00E+00	0.00E+00
400.000	0.00E+00	0.00E+00	0.00E+00
450.000	0.00E+00	0.00E+00	0.00E+00
500.000	0.00E+00	0.00E+00	0.00E+00

# MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.116E+00  
 Pollutant remaining in solid-phase (kg) = 0.154E+01  
 Total mass of pollutant remaining (kg) = 0.165E+01  
 Liquid-phase decay of pollutant (kg) = 0.302E+00

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Time = 0.15E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
5.000	0.28E+00	0.73E+00	0.10E+01
50.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
150.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00
250.000	0.00E+00	0.00E+00	0.00E+00
300.000	0.00E+00	0.00E+00	0.00E+00
350.000	0.00E+00	0.00E+00	0.00E+00
400.000	0.00E+00	0.00E+00	0.00E+00
450.000	0.00E+00	0.00E+00	0.00E+00
500.000	0.00E+00	0.00E+00	0.00E+00

# MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.103E+00  
 Pollutant remaining in solid-phase (kg) = 0.138E+01  
 Total mass of pollutant remaining (kg) = 0.148E+01  
 Liquid-phase decay of pollutant (kg) = 0.424E+00

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Time = 0.50E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
5.000	0.58E-01	0.15E+00	0.21E+00
50.000	0.22E-03	0.56E-03	0.80E-03
100.000	0.00E+00	0.00E+00	0.00E+00

150.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00
250.000	0.00E+00	0.00E+00	0.00E+00
300.000	0.00E+00	0.00E+00	0.00E+00
350.000	0.00E+00	0.00E+00	0.00E+00
400.000	0.00E+00	0.00E+00	0.00E+00
450.000	0.00E+00	0.00E+00	0.00E+00
500.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.592E-01  
 Pollutant remaining in solid-phase (kg) = 0.787E+00  
 Total mass of pollutant remaining (kg) = 0.847E+00  
 Liquid-phase decay of pollutant (kg) = 0.111E+01

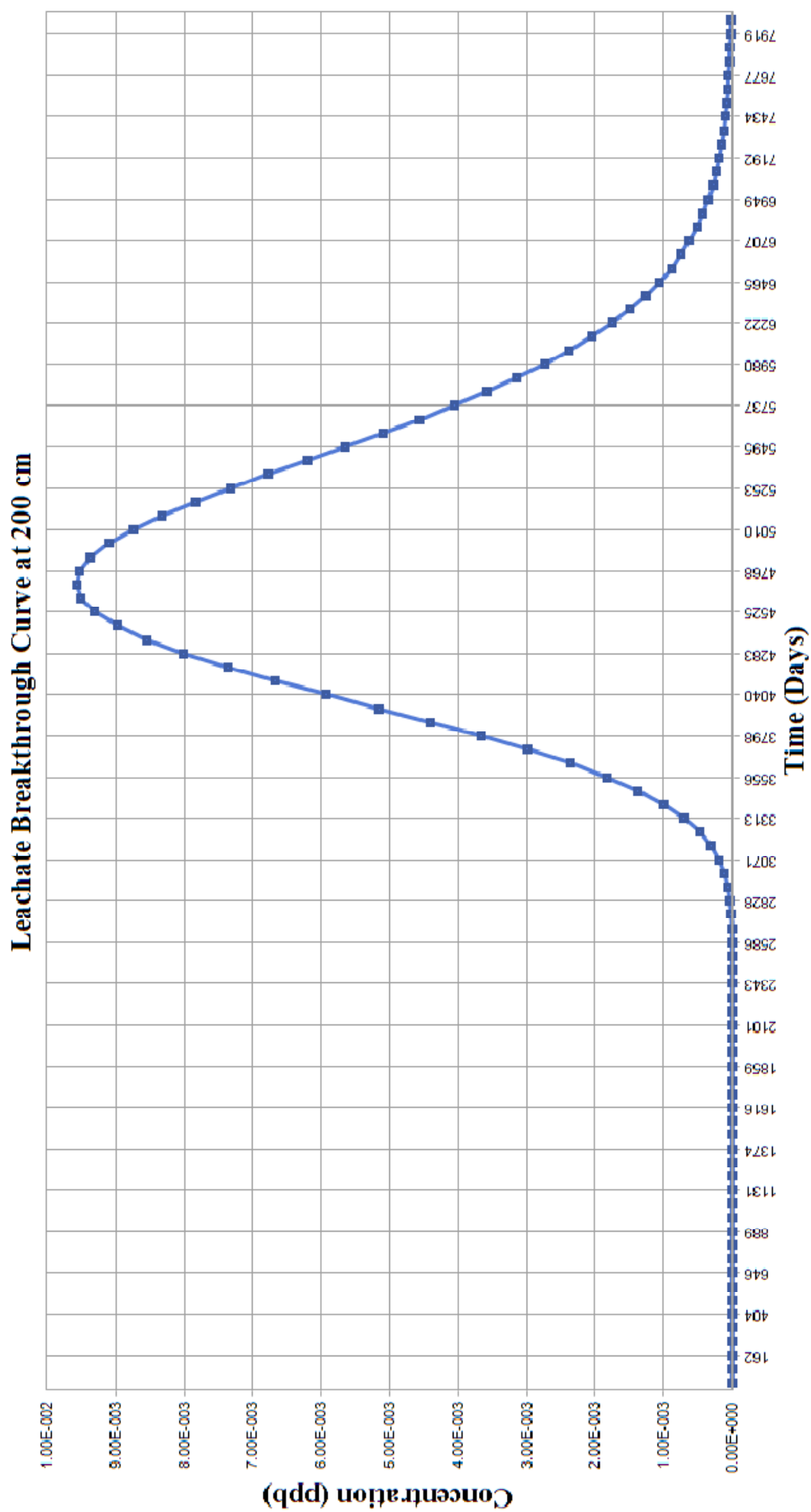
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Time = 0.20E+04 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
5.000	0.42E-04	0.11E-03	0.15E-03
50.000	0.28E-02	0.72E-02	0.10E-01
100.000	0.85E-03	0.22E-02	0.31E-02
150.000	0.53E-06	0.13E-05	0.19E-05
200.000	0.00E+00	0.00E+00	0.00E+00
250.000	0.00E+00	0.00E+00	0.00E+00
300.000	0.00E+00	0.00E+00	0.00E+00
350.000	0.00E+00	0.00E+00	0.00E+00
400.000	0.00E+00	0.00E+00	0.00E+00
450.000	0.00E+00	0.00E+00	0.00E+00
500.000	0.00E+00	0.00E+00	0.00E+00

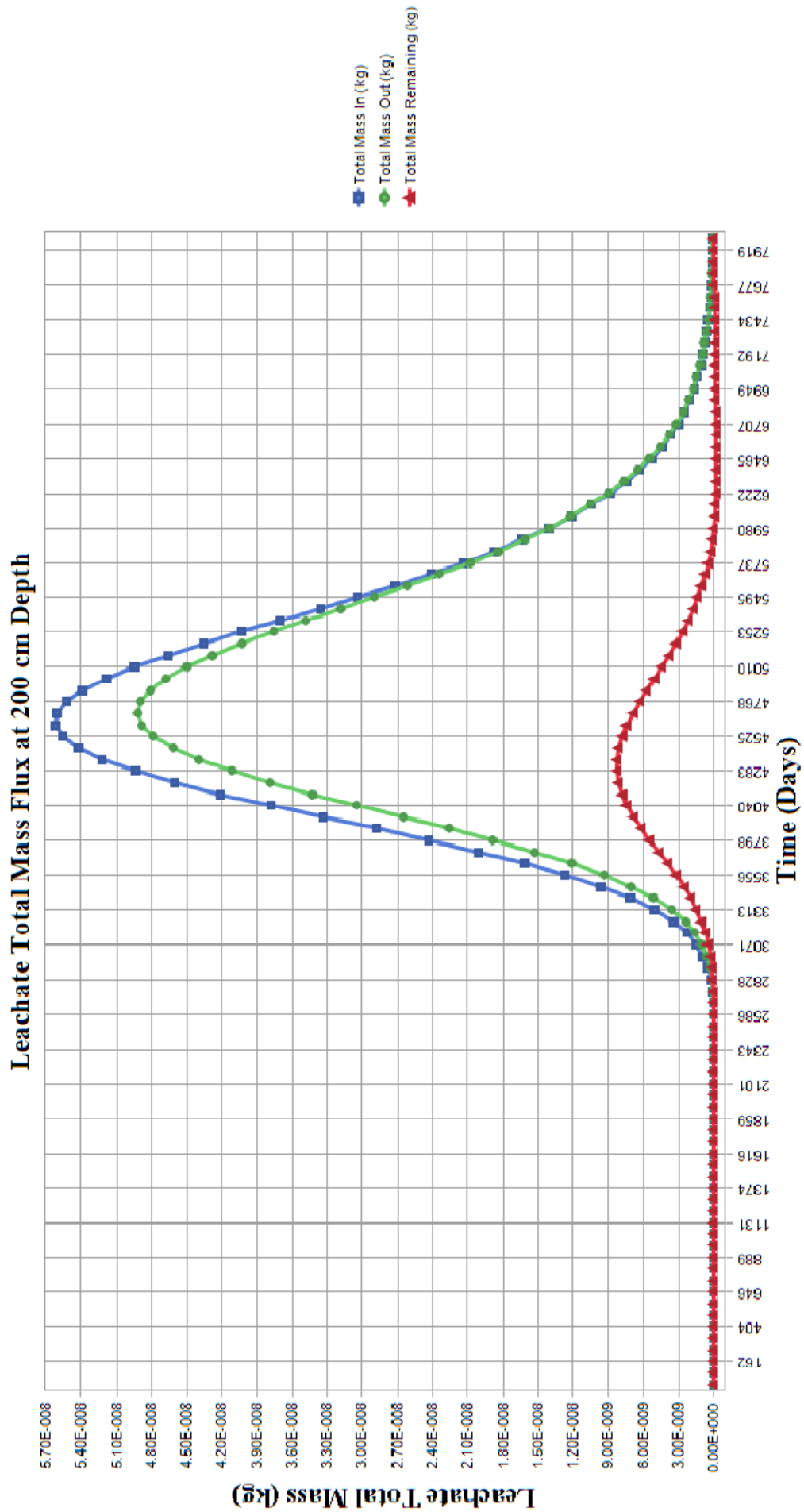
#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.487E-02  
 Pollutant remaining in solid-phase (kg) = 0.648E-01  
 Total mass of pollutant remaining (kg) = 0.697E-01  
 Liquid-phase decay of pollutant (kg) = 0.193E+01



Case 1 – Valencia Aldaia – Chlorpyrifos – Waste Application 2 [kg/ha] – Sandy Loam

1.0000000E-30	0.0000000E+00	5737.374	4.0565501E-03
80.80808	0.0000000E+00	5818.182	3.5822156E-03
161.6162	0.0000000E+00	5898.990	3.1425087E-03
242.4243	0.0000000E+00	5979.798	2.7393540E-03
323.2323	0.0000000E+00	6060.606	2.3734223E-03
404.0404	0.0000000E+00	6141.414	2.0443792E-03
484.8485	0.0000000E+00	6222.222	1.7510972E-03
565.6566	0.0000000E+00	6303.030	1.4918109E-03
646.4647	0.0000000E+00	6383.838	1.2643347E-03
727.2728	0.0000000E+00	6464.646	1.0662011E-03
808.0808	0.0000000E+00	6545.455	8.9480012E-04
888.8889	0.0000000E+00	6626.263	7.4747967E-04
969.6970	0.0000000E+00	6707.071	6.2162994E-04
1050.505	0.0000000E+00	6787.879	5.1474792E-04
1131.313	0.0000000E+00	6868.687	4.2447497E-04
1212.121	0.0000000E+00	6949.495	3.4863348E-04
1292.929	0.0000000E+00	7030.303	2.8523672E-04
1373.737	0.0000000E+00	7111.111	2.3249793E-04
1454.546	0.0000000E+00	7191.919	1.8882687E-04
1535.354	0.0000000E+00	7272.728	1.5282475E-04
1616.162	0.0000000E+00	7353.536	1.2327026E-04
1696.970	0.0000000E+00	7434.344	9.9107223E-05
1777.778	0.0000000E+00	7515.152	7.9429345E-05
1858.586	0.0000000E+00	7595.960	6.3464271E-05
1939.394	0.0000000E+00	7676.768	5.0558214E-05
2020.202	0.0000000E+00	7757.576	4.0161627E-05
2101.010	0.0000000E+00	7838.384	3.1814256E-05
2181.818	0.0000000E+00	7919.192	2.5134255E-05
2262.626	0.0000000E+00	8000.000	1.9804997E-05
2343.434	0.0000000E+00		
2424.242	0.0000000E+00		
2505.051	0.0000000E+00		
2585.859	0.0000000E+00		
2666.667	8.5461634E-06		
2747.475	1.8240882E-05		
2828.283	3.5836281E-05		
2909.091	6.6374538E-05		
2989.899	1.1673930E-04		
3070.707	1.9494853E-04		
3151.515	3.1140650E-04		
3232.323	4.7694152E-04		
3313.131	7.0295506E-04		
3393.939	9.9926989E-04		
3474.748	1.3739744E-03		
3555.556	1.8312692E-03		
3636.364	2.3707959E-03		
3717.172	2.9869510E-03		
3797.980	3.6687173E-03		
3878.788	4.4000032E-03		
3959.596	5.1601501E-03		
4040.404	5.9255869E-03		
4121.212	6.6712354E-03		
4202.021	7.3718079E-03		
4282.829	8.0038421E-03		
4363.636	8.5468236E-03		
4444.444	8.9843720E-03		
4525.252	9.3049323E-03		
4606.061	9.5021483E-03		
4686.869	9.5748231E-03		
4767.677	9.5265564E-03		
4848.485	9.3651135E-03		
4929.293	9.1016404E-03		
5010.101	8.7498045E-03		
5090.909	8.3247973E-03		
5171.717	7.8425445E-03		
5252.525	7.3189423E-03		
5333.333	6.7691384E-03		
5414.142	6.2070806E-03		
5494.950	5.6451508E-03		
5575.758	5.0939368E-03		
5656.566	4.5621339E-03		



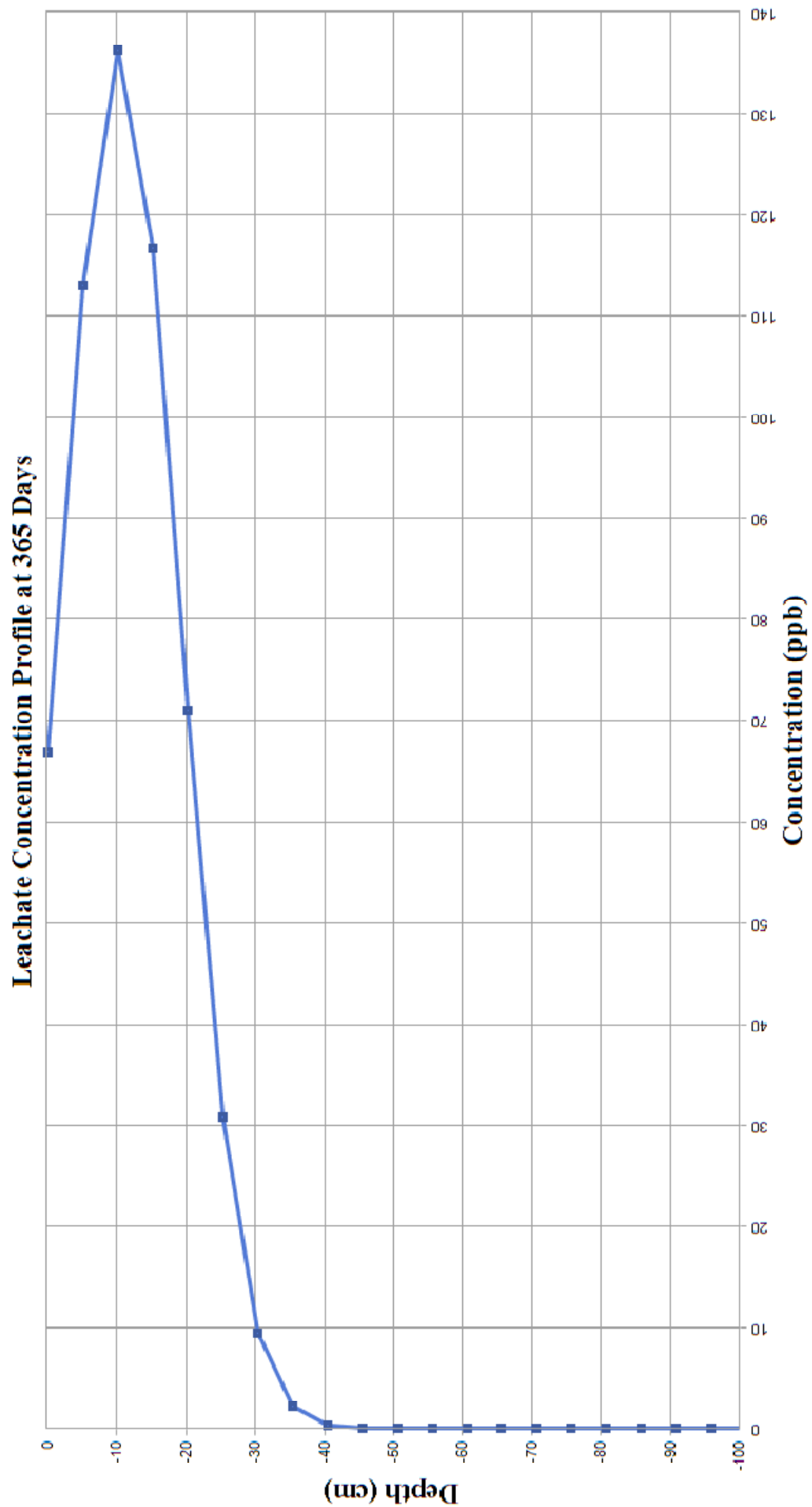
Case 1 – Valencia Aldaia – Chlorpyrifos – Waste Application 2 [kg/ha] – Sandy Loam

1.000000E-30	0.000000E+00	0.000000E+00	0.000000E+00
80.80808	0.000000E+00	0.000000E+00	0.000000E+00
161.6162	0.000000E+00	0.000000E+00	0.000000E+00
242.4243	0.000000E+00	0.000000E+00	0.000000E+00
323.2323	0.000000E+00	0.000000E+00	0.000000E+00
404.0404	0.000000E+00	0.000000E+00	0.000000E+00
484.8485	0.000000E+00	0.000000E+00	0.000000E+00
565.6566	0.000000E+00	0.000000E+00	0.000000E+00
646.4647	0.000000E+00	0.000000E+00	0.000000E+00
727.2728	1.4405348E-42	0.000000E+00	1.4405348E-42
808.0808	1.2715390E-37	0.000000E+00	1.2715390E-37
888.8889	1.3011416E-33	0.000000E+00	1.3011416E-33
969.6970	2.6448820E-30	0.000000E+00	2.6448820E-30
1050.505	1.5504842E-27	0.000000E+00	1.5504842E-27
1131.313	3.4209392E-25	0.000000E+00	3.4209392E-25
1212.121	3.4535046E-23	0.000000E+00	3.4535046E-23
1292.929	1.8468600E-21	0.000000E+00	1.8468600E-21
1373.737	5.8523138E-20	0.000000E+00	5.8523138E-20
1454.546	1.1988978E-18	0.000000E+00	1.1988978E-18
1535.354	1.7009561E-17	0.000000E+00	1.7009561E-17
1616.162	1.7659050E-16	0.000000E+00	1.7659050E-16
1696.970	1.4026880E-15	0.000000E+00	1.4026880E-15
1777.778	8.8411393E-15	0.000000E+00	8.8411393E-15
1858.586	4.5571484E-14	0.000000E+00	4.5571484E-14
1939.394	1.9697652E-13	0.000000E+00	1.9697652E-13
2020.202	7.2915296E-13	0.000000E+00	7.2915296E-13
2101.010	2.3531843E-12	0.000000E+00	2.3531843E-12
2181.818	6.7221745E-12	0.000000E+00	6.7221745E-12
2262.626	5.7906967E-11	4.0686943E-11	1.7220024E-11
2343.434	1.0497611E-10	6.4973596E-11	4.0002519E-11
2424.242	2.3199233E-10	1.4690134E-10	8.5090990E-11
2505.051	4.7622917E-10	3.0908681E-10	1.6714233E-10
2585.859	9.0544983E-10	6.0003158E-10	3.0541827E-10
2666.667	1.6150561E-09	1.0925169E-09	5.2253923E-10
2747.475	2.7121780E-09	1.8703381E-09	8.4183988E-10
2828.283	4.3190092E-09	3.0354665E-09	1.2835426E-09
2909.091	6.5419337E-09	4.6815787E-09	1.8603550E-09
2989.899	9.4690460E-09	6.8956529E-09	2.5733931E-09
3070.707	1.3142539E-08	9.7332240E-09	3.4093146E-09
3151.515	1.7548727E-08	1.3209167E-08	4.3395603E-09
3232.323	2.2608432E-08	1.7286631E-08	5.3218021E-09
3313.131	2.8176430E-08	2.1872767E-08	6.3036643E-09
3393.939	3.4051659E-08	2.6823605E-08	7.2280555E-09
3474.748	3.9989942E-08	3.1950787E-08	8.0391533E-09
3555.556	4.5728605E-08	3.7040351E-08	8.6882546E-09
3636.364	5.1006275E-08	4.1867857E-08	9.1384162E-09
3717.172	5.5585286E-08	4.6217707E-08	9.3675796E-09
3797.980	5.9272214E-08	4.9902489E-08	9.3697237E-09
3878.788	6.1928141E-08	5.2774016E-08	9.1541246E-09
3959.596	6.3477096E-08	5.4733910E-08	8.7431840E-09
4040.404	6.3905830E-08	5.5736592E-08	8.1692368E-09
4121.212	6.3258604E-08	5.5787886E-08	7.4707183E-09
4202.021	6.1628398E-08	5.4939829E-08	6.6885688E-09
4282.829	5.9145211E-08	5.3282420E-08	5.8627907E-09
4363.636	5.5963010E-08	5.0933149E-08	5.0298596E-09
4444.444	5.2247128E-08	4.8026322E-08	4.2208046E-09
4525.252	4.8163507E-08	4.4703292E-08	3.4602161E-09
4606.061	4.3869260E-08	4.1103412E-08	2.7658467E-09
4686.869	3.9505746E-08	3.7356831E-08	2.1489162E-09
4767.677	3.5194201E-08	3.3579408E-08	1.6147929E-09
4848.485	3.1033402E-08	2.9869462E-08	1.1639396E-09
4929.293	2.7099123E-08	2.6306125E-08	7.9299800E-10
5010.101	2.3445279E-08	2.2949420E-08	4.9585946E-10
5090.909	2.0105913E-08	1.9841254E-08	2.6465952E-10
5171.717	1.7097880E-08	1.7007247E-08	9.0633438E-11
5252.525	1.4423797E-08	1.4458997E-08	-3.5199645E-11
5333.333	1.2075163E-08	1.2196681E-08	-1.2151799E-10
5414.142	1.0035432E-08	1.0211763E-08	-1.7633087E-10
5494.950	8.2822806E-09	8.4890495E-09	-2.0676870E-10
5575.758	6.7899464E-09	7.0089161E-09	-2.1896961E-10
5656.566	5.5310778E-09	5.7491403E-09	-2.1806228E-10

5737.374	4.4781623E-09	4.6863753E-09	-2.0821286E-10
5818.182	3.6045189E-09	3.7972239E-09	-1.9270496E-10
5898.990	2.8850771E-09	3.0591278E-09	-1.7405073E-10
5979.798	2.2968389E-09	2.4509452E-09	-1.5410631E-10
6060.606	1.8191222E-09	1.9533100E-09	-1.3418777E-10
6141.414	1.4336372E-09	1.5488166E-09	-1.1517937E-10
6222.222	1.1244718E-09	1.2221024E-09	-9.7630556E-11
6303.030	8.7795027E-10	9.5978880E-10	-8.1838522E-11
6383.838	6.8246292E-10	7.5038070E-10	-6.7917762E-11
6464.646	5.2826093E-10	5.8411648E-10	-5.5855553E-11
6545.455	4.0723780E-10	4.5279364E-10	-4.5555837E-11
6626.263	3.1270969E-10	3.4958222E-10	-3.6872519E-11
6707.071	2.3921751E-10	2.6885139E-10	-2.9633879E-11
6787.879	1.8233107E-10	2.0599103E-10	-2.3659961E-11
6868.687	1.3848392E-10	1.5725830E-10	-1.8774385E-11
6949.495	1.0482549E-10	1.1963738E-10	-1.4811895E-11
7030.303	7.9088097E-11	9.0710509E-11	-1.1622411E-11
7111.111	5.9481517E-11	6.8554593E-11	-9.0730774E-12
7191.919	4.4599314E-11	5.1647960E-11	-7.0486464E-12
7272.728	3.3342131E-11	3.8792910E-11	-5.4507792E-12
7353.536	2.4855177E-11	2.9051921E-11	-4.1967441E-12
7434.344	1.8477558E-11	2.1695366E-11	-3.2178077E-12
7515.152	1.3699804E-11	1.6157251E-11	-2.4574466E-12
7595.960	1.0131174E-11	1.2000827E-11	-1.8696533E-12
7676.768	7.4735192E-12	8.8908290E-12	-1.4173098E-12
7757.576	5.4996081E-12	6.5702938E-12	-1.0706856E-12
7838.384	4.0376309E-12	4.8437795E-12	-8.0614839E-13
7919.192	2.9575144E-12	3.5625500E-12	-6.0503561E-13
8000.000	2.1615940E-12	2.6143005E-12	-4.5270637E-13
1.0000000E-30	0.0000000E+00	0.0000000E+00	0.0000000E+00
80.80808	0.0000000E+00	0.0000000E+00	0.0000000E+00
161.6162	0.0000000E+00	0.0000000E+00	0.0000000E+00
242.4243	0.0000000E+00	0.0000000E+00	0.0000000E+00
323.2323	0.0000000E+00	0.0000000E+00	0.0000000E+00
404.0404	0.0000000E+00	0.0000000E+00	0.0000000E+00
484.8485	0.0000000E+00	0.0000000E+00	0.0000000E+00
565.6566	0.0000000E+00	0.0000000E+00	0.0000000E+00
646.4647	0.0000000E+00	0.0000000E+00	0.0000000E+00
727.2728	0.0000000E+00	0.0000000E+00	0.0000000E+00
808.0808	2.3822074E-44	0.0000000E+00	2.3822074E-44
888.8889	1.1264113E-39	0.0000000E+00	1.1264113E-39
969.6970	8.1954291E-36	0.0000000E+00	8.1954291E-36
1050.505	1.4257943E-32	0.0000000E+00	1.4257943E-32
1131.313	8.0582805E-30	0.0000000E+00	8.0582805E-30
1212.121	1.8524958E-27	0.0000000E+00	1.8524958E-27
1292.929	2.0503320E-25	0.0000000E+00	2.0503320E-25
1373.737	1.2428880E-23	0.0000000E+00	1.2428880E-23
1454.546	4.5620404E-22	0.0000000E+00	4.5620404E-22
1535.354	1.0974595E-20	0.0000000E+00	1.0974595E-20
1616.162	1.8434853E-19	0.0000000E+00	1.8434853E-19
1696.970	2.2761124E-18	0.0000000E+00	2.2761124E-18
1777.778	2.1541330E-17	0.0000000E+00	2.1541330E-17
1858.586	1.6178337E-16	0.0000000E+00	1.6178337E-16
1939.394	9.9248820E-16	0.0000000E+00	9.9248820E-16
2020.202	5.0954652E-15	0.0000000E+00	5.0954652E-15
2101.010	2.2347367E-14	0.0000000E+00	2.2347367E-14
2181.818	8.5200557E-14	0.0000000E+00	8.5200557E-14
2262.626	2.8664248E-13	0.0000000E+00	2.8664248E-13
2343.434	8.6203728E-13	0.0000000E+00	8.6203728E-13
2424.242	2.3434681E-12	0.0000000E+00	2.3434681E-12
2505.051	5.8151804E-12	0.0000000E+00	5.8151804E-12
2585.859	1.3284307E-11	0.0000000E+00	1.3284307E-11
2666.667	7.2074381E-11	4.3927282E-11	2.8147099E-11
2747.475	1.4943917E-10	9.3758133E-11	5.5681040E-11
2828.283	2.8764002E-10	1.8419848E-10	1.0344154E-10
2909.091	5.2256832E-10	3.4116512E-10	1.8140318E-10
2989.899	9.0172714E-10	6.0004002E-10	3.0168709E-10
3070.707	1.4798092E-09	1.0020355E-09	4.7777371E-10
3151.515	2.3238016E-09	1.6006294E-09	7.2317213E-10
3232.323	3.5011496E-09	2.4514795E-09	1.0496700E-09
3313.131	5.0785691E-09	3.6131889E-09	1.4653804E-09



3393.939	7.1091328E-09	5.1362474E-09	1.9728856E-09
3474.748	9.6300097E-09	7.0622281E-09	2.5677815E-09
3555.556	1.2650704E-08	9.4127239E-09	3.2379803E-09
3636.364	1.6149698E-08	1.2185891E-08	3.9638071E-09
3717.172	2.0071990E-08	1.5352928E-08	4.7190629E-09
3797.980	2.4330038E-08	1.8857207E-08	5.4728315E-09
3878.788	2.8807925E-08	2.2616016E-08	6.1919101E-09
3959.596	3.3366604E-08	2.6523171E-08	6.8434329E-09
4040.404	3.7855063E-08	3.0457514E-08	7.3975488E-09
4121.212	4.2119765E-08	3.4290149E-08	7.8296178E-09
4202.021	4.6012982E-08	3.7891091E-08	8.1218916E-09
4282.829	4.9404292E-08	4.1139746E-08	8.2645455E-09
4363.636	5.2186497E-08	4.3930672E-08	8.2558245E-09
4444.444	5.4281340E-08	4.6179675E-08	8.1016660E-09
4525.252	5.5642019E-08	4.7827349E-08	7.8146716E-09
4606.061	5.6253679E-08	4.8841038E-08	7.4126412E-09
4686.869	5.6131622E-08	4.9214588E-08	6.9170354E-09
4767.677	5.5317756E-08	4.8966502E-08	6.3512546E-09
4848.485	5.3875755E-08	4.8136680E-08	5.7390750E-09
4929.293	5.1885763E-08	4.6782432E-08	5.1033306E-09
5010.101	4.9438775E-08	4.4973994E-08	4.4647792E-09
5090.909	4.6630838E-08	4.2789456E-08	3.8413819E-09
5171.717	4.3558508E-08	4.0310677E-08	3.2478322E-09
5252.525	4.0314742E-08	3.7619362E-08	2.6953806E-09
5333.333	3.6985266E-08	3.4793370E-08	2.1918956E-09
5414.142	3.3646511E-08	3.1904396E-08	1.7421169E-09
5494.950	3.0364095E-08	2.9016075E-08	1.3480198E-09
5575.758	2.7192101E-08	2.6182834E-08	1.0092669E-09
5656.566	2.4173060E-08	2.3449369E-08	7.2369194E-10
5737.374	2.1338430E-08	2.0850667E-08	4.8776244E-10
5818.182	1.8709615E-08	1.8412589E-08	2.9702651E-10
5898.990	1.6298980E-08	1.6152494E-08	1.4648505E-10
5979.798	1.4111210E-08	1.4080279E-08	3.0930907E-11
6060.606	1.2144588E-08	1.2199390E-08	-5.4802329E-11
6141.414	1.0392463E-08	1.0508109E-08	-1.1564645E-10
6222.222	8.8444816E-09	9.0006393E-09	-1.5615813E-10
6303.030	7.4874720E-09	7.6679081E-09	-1.8043575E-10
6383.838	6.3066010E-09	6.4986798E-09	-1.9207866E-10
6464.646	5.2860996E-09	5.4802736E-09	-1.9417379E-10
6545.455	4.4099604E-09	4.5992725E-09	-1.8931223E-10
6626.263	3.6624235E-09	3.8420453E-09	-1.7962180E-10
6707.071	3.0283660E-09	3.1951777E-09	-1.6681179E-10
6787.879	2.4935825E-09	2.6458042E-09	-1.5222189E-10
6868.687	2.0449278E-09	2.1818012E-09	-1.3687344E-10
6949.495	1.6704548E-09	1.7919760E-09	-1.2152127E-10
7030.303	1.3594168E-09	1.4661168E-09	-1.0669995E-10
7111.111	1.1022709E-09	1.1950393E-09	-9.2768328E-11
7191.919	8.9062463E-10	9.7057007E-10	-7.9945425E-11
7272.728	7.1717449E-10	7.8551921E-10	-6.8344733E-11
7353.536	5.7560834E-10	6.3360917E-10	-5.8000799E-11
7434.344	4.6051973E-10	5.0941112E-10	-4.8891384E-11
7515.152	3.6731077E-10	4.0826681E-10	-4.0956055E-11
7595.960	2.9209646E-10	3.2620634E-10	-3.4109885E-11
7676.768	2.3161506E-10	2.5986921E-10	-2.8254146E-11
7757.576	1.8314605E-10	2.0643076E-10	-2.3284714E-11
7838.384	1.4442790E-10	1.6352528E-10	-1.9097375E-11
7919.192	1.1359779E-10	1.2919008E-10	-1.5592283E-11
8000.000	8.9121724E-11	1.0179768E-10	-1.2675960E-11



Case 1 – Valencia Aldaia – Chlorpyrifos – Waste Application 2 [kg/ha] – Sandy Loam

66.81367	-1.0000000E-30	5737.374	4.0565501E-03
113.1449	-5.050505	5818.182	3.5822156E-03
136.2326	-10.10101	5898.990	3.1425087E-03
116.6314	-15.15152	5979.798	2.7393540E-03
70.99510	-20.20202	6060.606	2.3734223E-03
30.72533	-25.25253	6141.414	2.0443792E-03
9.453010	-30.30303	6222.222	1.7510972E-03
2.067276	-35.35353	6303.030	1.4918109E-03
0.3213174	-40.40404	6383.838	1.2643347E-03
3.5498444E-02	-45.45455	6464.646	1.0662011E-03
2.7810882E-03	-50.50505	6545.455	8.9480012E-04
0.0000000E+00	-55.55556	6626.263	7.4747967E-04
0.0000000E+00	-60.60606	6707.071	6.2162994E-04
0.0000000E+00	-65.65657	6787.879	5.1474792E-04
0.0000000E+00	-70.70707	6868.687	4.2447497E-04
0.0000000E+00	-75.75758	6949.495	3.4863348E-04
0.0000000E+00	-80.80808	7030.303	2.8523672E-04
0.0000000E+00	-85.85859	7111.111	2.3249793E-04
0.0000000E+00	-90.90910	7191.919	1.8882687E-04
0.0000000E+00	-95.95959	7272.728	1.5282475E-04
0.0000000E+00	-101.0101	7353.536	1.2327026E-04
0.0000000E+00	-106.0606	7434.344	9.9107223E-05
0.0000000E+00	-111.1111	7515.152	7.9429345E-05
0.0000000E+00	-116.1616	7595.960	6.3464271E-05
0.0000000E+00	-121.2121	7676.768	5.0558214E-05
0.0000000E+00	-126.2626	7757.576	4.0161627E-05
0.0000000E+00	-131.3131	7838.384	3.1814256E-05
0.0000000E+00	-136.3636	7919.192	2.5134255E-05
0.0000000E+00	-141.4141	8000.000	1.9804997E-05
0.0000000E+00	-146.4646		
0.0000000E+00	-151.5152		
0.0000000E+00	-156.5657		
0.0000000E+00	-161.6162		
0.0000000E+00	-166.6667		
0.0000000E+00	-171.7172		
0.0000000E+00	-176.7677		
0.0000000E+00	-181.8182		
0.0000000E+00	-186.8687		
0.0000000E+00	-191.9192		
0.0000000E+00	-196.9697		
0.0000000E+00	-202.0202		
0.0000000E+00	-207.0707		
0.0000000E+00	-212.1212		
0.0000000E+00	-217.1717		
0.0000000E+00	-222.2222		
0.0000000E+00	-227.2727		
0.0000000E+00	-232.3232		
0.0000000E+00	-237.3737		
0.0000000E+00	-242.4243		
0.0000000E+00	-247.4747		
0.0000000E+00	-252.5253		
0.0000000E+00	-257.5758		
0.0000000E+00	-262.6263		
0.0000000E+00	-267.6768		
0.0000000E+00	-272.7273		
0.0000000E+00	-277.7778		
0.0000000E+00	-282.8283		
0.0000000E+00	-287.8788		
0.0000000E+00	-292.9293		
0.0000000E+00	-297.9798		
0.0000000E+00	-303.0303		
0.0000000E+00	-308.0808		
0.0000000E+00	-313.1313		
0.0000000E+00	-318.1818		
0.0000000E+00	-323.2323		
0.0000000E+00	-328.2828		
0.0000000E+00	-333.3333		
0.0000000E+00	-338.3839		
0.0000000E+00	-343.4344		
0.0000000E+00	-348.4849		
0.0000000E+00	-353.5354		

```

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                        PESTAN
                      version 4.0, 1992.

Developed by :

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Robert S. Kerr Environmental Research Laboratory
U.S. Environmental Protection Agency
P.O. Box 1198
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Title: Valencia Aldaia

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Solubility (mg/l) .....: 0.14000E+01
Recharge rate (cm/hr).....: 0.51400E-02
Sorption constant (cc/g).....: 0.25560E+01
Saturated water content .....: 0.43500E+00
Solid-phase decay (/hr) .....: 0.63000E-01
Liquid-phase decay (/hr) .....: 0.10000E-02
Curve coefficient .....: 0.49000E+01
Bulk density (g/cc).....: 0.13350E+01
Dispersion coefficient (cm^2/hr).....: 0.60000E-01
Saturated hydraulic conductivity .....: 0.44200E+01
Minimum depth (cm).....: 0.00000E+00
Maximum depth (cm).....: 0.20000E+03
Minimum time (day).....: 0.00000E+00
Maximum time (day).....: 0.80000E+04

```

For application 1 the active ingredient (ai) applied is 0.200E+01 kg  
ai/ha,  
and has been applied 0.000E+00 days prior to recharge

+++++  
Results

```

Projected water content .....: 0.257E+00
Pore water velocity [cm/hr] .....: 0.200E-01
Pollutant velocity [cm/hr] .....: 0.140E-02
Length of pollutant slug [cm] .....: 0.389E+01
Mass decayed prior to recharge [kg] .....: 0.000E+00

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+++++

Time = 0.50E+02 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.47E+00	0.12E+01	0.17E+01
20.000	0.00E+00	0.00E+00	0.00E+00
40.000	0.00E+00	0.00E+00	0.00E+00
60.000	0.00E+00	0.00E+00	0.00E+00
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.911E-01

Case 1 - Valencia Aldaia - Chlorpyrifos - Waste Application 2 [kg/ha] - Sandy Loam

Pollutant remaining in solid-phase (kg) = 0.121E+01  
 Total mass of pollutant remaining (kg) = 0.130E+01  
 Liquid-phase decay of pollutant (kg) = 0.114E+00

+++++

Time = 0.10E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.39E+00	0.10E+01	0.14E+01
20.000	0.12E-03	0.31E-03	0.44E-03
40.000	0.00E+00	0.00E+00	0.00E+00
60.000	0.00E+00	0.00E+00	0.00E+00
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.919E-01  
 Pollutant remaining in solid-phase (kg) = 0.122E+01  
 Total mass of pollutant remaining (kg) = 0.131E+01  
 Liquid-phase decay of pollutant (kg) = 0.240E+00

+++++

Time = 0.15E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.30E+00	0.76E+00	0.11E+01
20.000	0.32E-02	0.82E-02	0.12E-01
40.000	0.00E+00	0.00E+00	0.00E+00
60.000	0.00E+00	0.00E+00	0.00E+00
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.895E-01  
 Pollutant remaining in solid-phase (kg) = 0.119E+01  
 Total mass of pollutant remaining (kg) = 0.128E+01  
 Liquid-phase decay of pollutant (kg) = 0.367E+00

+++++

Time = 0.50E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.41E-01	0.11E+00	0.15E+00
20.000	0.82E-01	0.21E+00	0.30E+00
40.000	0.42E-02	0.11E-01	0.15E-01
60.000	0.43E-05	0.11E-04	0.16E-04
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00

120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.576E-01  
 Pollutant remaining in solid-phase (kg) = 0.766E+00  
 Total mass of pollutant remaining (kg) = 0.824E+00  
 Liquid-phase decay of pollutant (kg) = 0.108E+01

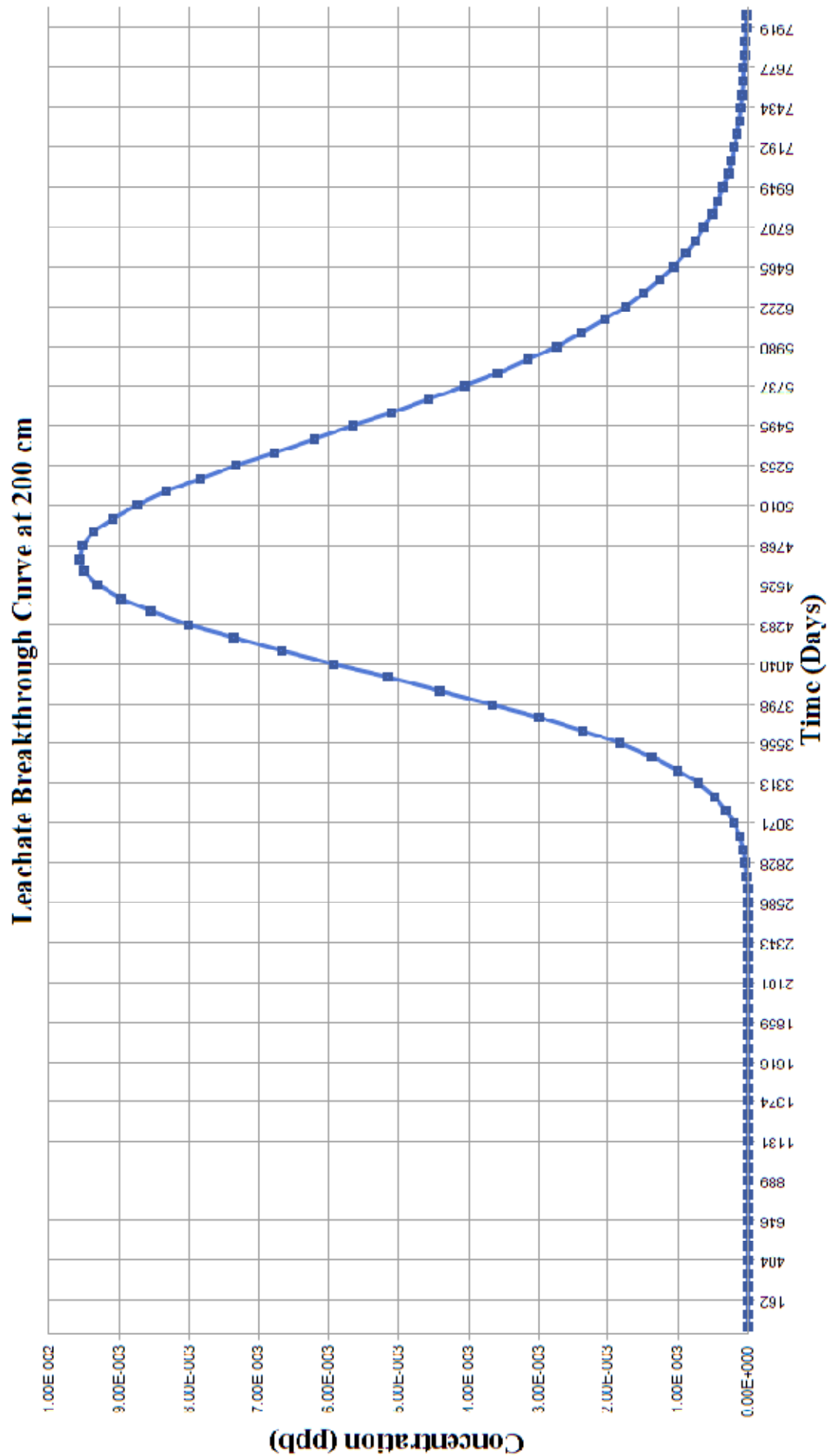
+++++

Time = 0.20E+04 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.26E-04	0.68E-04	0.97E-04
20.000	0.30E-03	0.76E-03	0.11E-02
40.000	0.17E-02	0.44E-02	0.63E-02
60.000	0.36E-02	0.93E-02	0.13E-01
80.000	0.29E-02	0.74E-02	0.11E-01
100.000	0.85E-03	0.22E-02	0.31E-02
120.000	0.93E-04	0.24E-03	0.34E-03
140.000	0.38E-05	0.97E-05	0.14E-04
160.000	0.57E-07	0.14E-06	0.21E-06
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

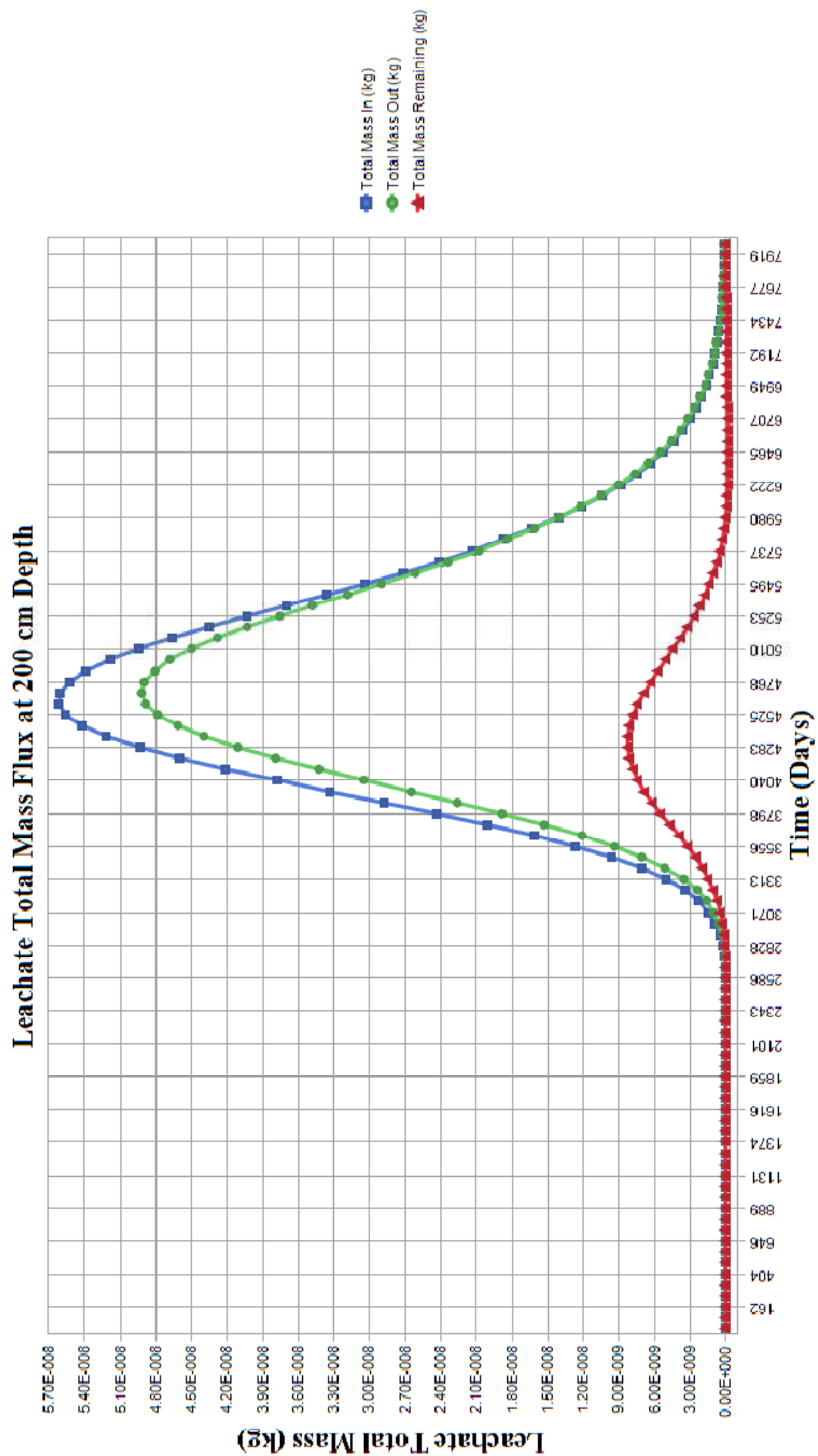
Pollutant remaining in liquid-phase (kg) = 0.487E-02  
 Pollutant remaining in solid-phase (kg) = 0.648E-01  
 Total mass of pollutant remaining (kg) = 0.697E-01  
 Liquid-phase decay of pollutant (kg) = 0.193E+01



Case 1 - Valencia Aldaia - Chlorpyrifos - Waste Application 2 [kg/ha] - Sandy Loam

1.0000000E-30	0.0000000E+00	5737.374	4.0565501E-03
80.80808	0.0000000E+00	5818.182	3.5822156E-03
161.6162	0.0000000E+00	5898.990	3.1425087E-03
242.4243	0.0000000E+00	5979.798	2.7393540E-03
323.2323	0.0000000E+00	6060.606	2.3734223E-03
404.0404	0.0000000E+00	6141.414	2.0443792E-03
484.8485	0.0000000E+00	6222.222	1.7510972E-03
565.6566	0.0000000E+00	6303.030	1.4918109E-03
646.4647	0.0000000E+00	6383.838	1.2643347E-03
727.2728	0.0000000E+00	6464.646	1.0662011E-03
808.0808	0.0000000E+00	6545.455	8.9480012E-04
888.8889	0.0000000E+00	6626.263	7.4747967E-04
969.6970	0.0000000E+00	6707.071	6.2162994E-04
1050.505	0.0000000E+00	6787.879	5.1474792E-04
1131.313	0.0000000E+00	6868.687	4.2447497E-04
1212.121	0.0000000E+00	6949.495	3.4863348E-04
1292.929	0.0000000E+00	7030.303	2.8523672E-04
1373.737	0.0000000E+00	7111.111	2.3249793E-04
1454.546	0.0000000E+00	7191.919	1.8882687E-04
1535.354	0.0000000E+00	7272.728	1.5282475E-04
1616.162	0.0000000E+00	7353.536	1.2327026E-04
1696.970	0.0000000E+00	7434.344	9.9107223E-05
1777.778	0.0000000E+00	7515.152	7.9429345E-05
1858.586	0.0000000E+00	7595.960	6.3464271E-05
1939.394	0.0000000E+00	7676.768	5.0558214E-05
2020.202	0.0000000E+00	7757.576	4.0161627E-05
2101.010	0.0000000E+00	7838.384	3.1814256E-05
2181.818	0.0000000E+00	7919.192	2.5134255E-05
2262.626	0.0000000E+00	8000.000	1.9804997E-05
2343.434	0.0000000E+00		
2424.242	0.0000000E+00		
2505.051	0.0000000E+00		
2585.859	0.0000000E+00		
2666.667	8.5461634E-06		
2747.475	1.8240882E-05		
2828.283	3.5836281E-05		
2909.091	6.6374538E-05		
2989.899	1.1673930E-04		
3070.707	1.9494853E-04		
3151.515	3.1140650E-04		
3232.323	4.7694152E-04		
3313.131	7.0295506E-04		
3393.939	9.9926989E-04		
3474.748	1.3739744E-03		
3555.556	1.8312692E-03		
3636.364	2.3707959E-03		
3717.172	2.9869510E-03		
3797.980	3.6687173E-03		
3878.788	4.4000032E-03		
3959.596	5.1601501E-03		
4040.404	5.9255869E-03		
4121.212	6.6712354E-03		
4202.021	7.3718079E-03		
4282.829	8.0038421E-03		
4363.636	8.5468236E-03		
4444.444	8.9843720E-03		
4525.252	9.3049323E-03		
4606.061	9.5021483E-03		
4686.869	9.5748231E-03		
4767.677	9.5265564E-03		
4848.485	9.3651135E-03		
4929.293	9.1016404E-03		
5010.101	8.7498045E-03		
5090.909	8.3247973E-03		
5171.717	7.8425445E-03		
5252.525	7.3189423E-03		
5333.333	6.7691384E-03		
5414.142	6.2070806E-03		
5494.950	5.6451508E-03		
5575.758	5.0939368E-03		

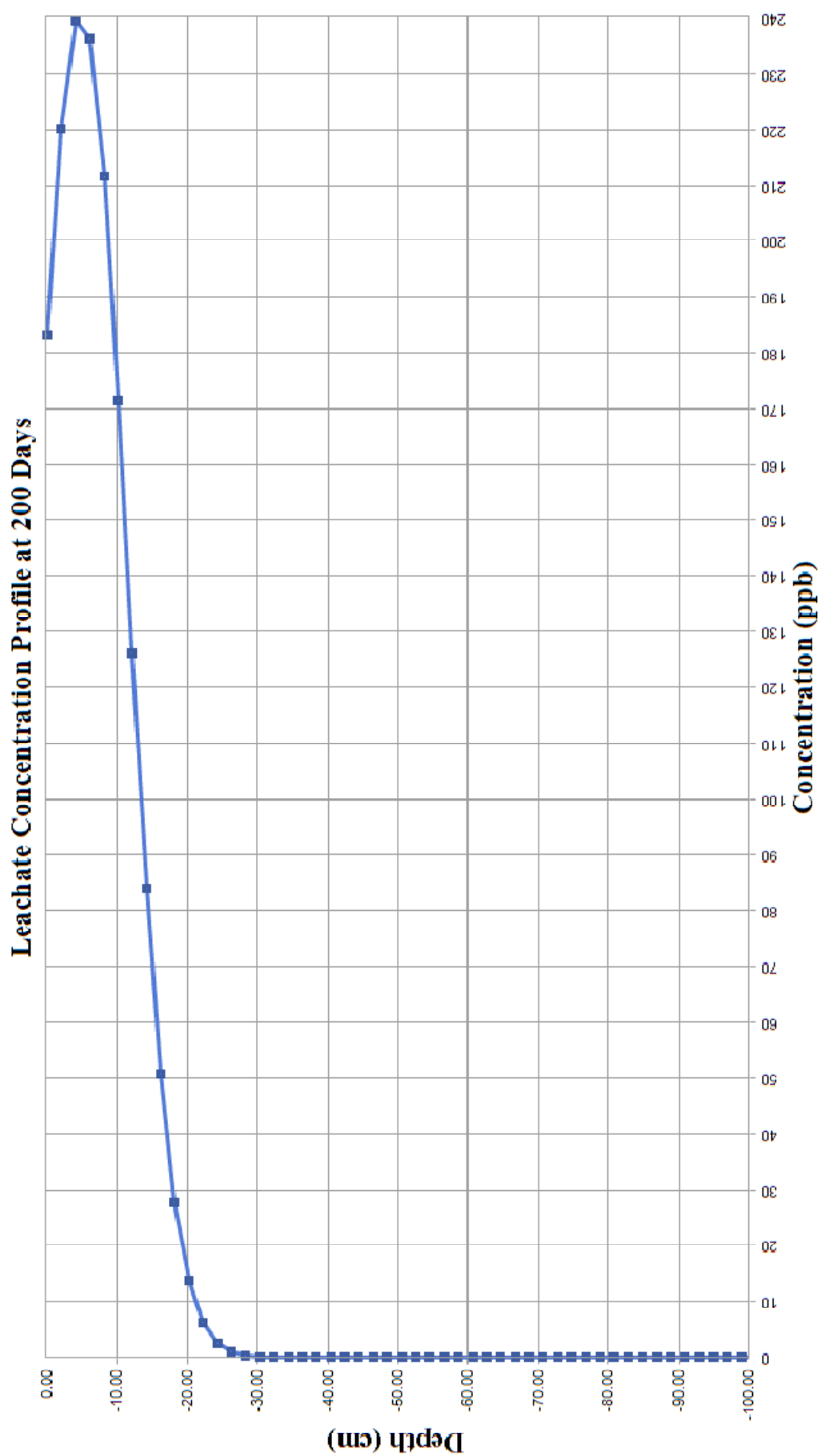




Case 1 – Valencia Aldaia – Chlorpyrifos – Waste Application 2 [kg/ha] – Sandy Loam

1.0000000E-30	0.0000000E+00	0.0000000E+00	0.0000000E+00
80.80808	0.0000000E+00	0.0000000E+00	0.0000000E+00
161.6162	0.0000000E+00	0.0000000E+00	0.0000000E+00
242.4243	0.0000000E+00	0.0000000E+00	0.0000000E+00
323.2323	0.0000000E+00	0.0000000E+00	0.0000000E+00
404.0404	0.0000000E+00	0.0000000E+00	0.0000000E+00
484.8485	0.0000000E+00	0.0000000E+00	0.0000000E+00
565.6566	0.0000000E+00	0.0000000E+00	0.0000000E+00
646.4647	0.0000000E+00	0.0000000E+00	0.0000000E+00
727.2728	0.0000000E+00	0.0000000E+00	0.0000000E+00
808.0808	2.3822074E-44	0.0000000E+00	2.3822074E-44
888.8889	1.1264113E-39	0.0000000E+00	1.1264113E-39
969.6970	8.1954291E-36	0.0000000E+00	8.1954291E-36
1050.505	1.4257943E-32	0.0000000E+00	1.4257943E-32
1131.313	8.0582805E-30	0.0000000E+00	8.0582805E-30
1212.121	1.8524958E-27	0.0000000E+00	1.8524958E-27
1292.929	2.0503320E-25	0.0000000E+00	2.0503320E-25
1373.737	1.2428880E-23	0.0000000E+00	1.2428880E-23
1454.546	4.5620404E-22	0.0000000E+00	4.5620404E-22
1535.354	1.0974595E-20	0.0000000E+00	1.0974595E-20
1616.162	1.8434853E-19	0.0000000E+00	1.8434853E-19
1696.970	2.2761124E-18	0.0000000E+00	2.2761124E-18
1777.778	2.1541330E-17	0.0000000E+00	2.1541330E-17
1858.586	1.6178337E-16	0.0000000E+00	1.6178337E-16
1939.394	9.9248820E-16	0.0000000E+00	9.9248820E-16
2020.202	5.0954652E-15	0.0000000E+00	5.0954652E-15
2101.010	2.2347367E-14	0.0000000E+00	2.2347367E-14
2181.818	8.5200557E-14	0.0000000E+00	8.5200557E-14
2262.626	2.8664248E-13	0.0000000E+00	2.8664248E-13
2343.434	8.6203728E-13	0.0000000E+00	8.6203728E-13
2424.242	2.3434681E-12	0.0000000E+00	2.3434681E-12
2505.051	5.8151804E-12	0.0000000E+00	5.8151804E-12
2585.859	1.3284307E-11	0.0000000E+00	1.3284307E-11
2666.667	7.2074381E-11	4.3927282E-11	2.8147099E-11
2747.475	1.4943917E-10	9.3758133E-11	5.5681040E-11
2828.283	2.8764002E-10	1.8419848E-10	1.0344154E-10
2909.091	5.2256832E-10	3.4116512E-10	1.8140318E-10
2989.899	9.0172714E-10	6.0004002E-10	3.0168709E-10
3070.707	1.4798092E-09	1.0020355E-09	4.7777371E-10
3151.515	2.3238016E-09	1.6006294E-09	7.2317213E-10
3232.323	3.5011496E-09	2.4514795E-09	1.0496700E-09
3313.131	5.0785691E-09	3.6131889E-09	1.4653804E-09
3393.939	7.1091328E-09	5.1362474E-09	1.9728856E-09
3474.748	9.6300097E-09	7.0622281E-09	2.5677815E-09
3555.556	1.2650704E-08	9.4127239E-09	3.2379803E-09
3636.364	1.6149698E-08	1.2185891E-08	3.9638071E-09
3717.172	2.0071990E-08	1.5352928E-08	4.7190629E-09
3797.980	2.4330038E-08	1.8857207E-08	5.4728315E-09
3878.788	2.8807925E-08	2.2616016E-08	6.1919101E-09
3959.596	3.3366604E-08	2.6523171E-08	6.8434329E-09
4040.404	3.7855063E-08	3.0457514E-08	7.3975488E-09
4121.212	4.2119765E-08	3.4290149E-08	7.8296178E-09
4202.021	4.6012982E-08	3.7891091E-08	8.1218916E-09
4282.829	4.9404292E-08	4.1139746E-08	8.2645455E-09
4363.636	5.2186497E-08	4.3930672E-08	8.2558245E-09
4444.444	5.4281340E-08	4.6179675E-08	8.1016660E-09
4525.252	5.5642019E-08	4.7827349E-08	7.8146716E-09
4606.061	5.6253679E-08	4.8841038E-08	7.4126412E-09
4686.869	5.6131622E-08	4.9214588E-08	6.9170354E-09
4767.677	5.5317756E-08	4.8966502E-08	6.3512546E-09
4848.485	5.3875755E-08	4.8136680E-08	5.7390750E-09
4929.293	5.1885763E-08	4.6782432E-08	5.1033306E-09
5010.101	4.9438775E-08	4.4973994E-08	4.4647792E-09
5090.909	4.6630838E-08	4.2789456E-08	3.8413819E-09
5171.717	4.3558508E-08	4.0310677E-08	3.2478322E-09
5252.525	4.0314742E-08	3.7619362E-08	2.6953806E-09
5333.333	3.6985266E-08	3.4793370E-08	2.1918956E-09
5414.142	3.3646511E-08	3.1904396E-08	1.7421169E-09
5494.950	3.0364095E-08	2.9016075E-08	1.3480198E-09
5575.758	2.7192101E-08	2.6182834E-08	1.0092669E-09
5656.566	2.4173060E-08	2.3449369E-08	7.2369194E-10

5737.374	2.1338430E-08	2.0850667E-08	4.8776244E-10
5818.182	1.8709615E-08	1.8412589E-08	2.9702651E-10
5898.990	1.6298980E-08	1.6152494E-08	1.4648505E-10
5979.798	1.4111210E-08	1.4080279E-08	3.0930907E-11
6060.606	1.2144588E-08	1.2199390E-08	-5.4802329E-11
6141.414	1.0392463E-08	1.0508109E-08	-1.1564645E-10
6222.222	8.8444816E-09	9.0006393E-09	-1.5615813E-10
6303.030	7.4874720E-09	7.6679081E-09	-1.8043575E-10
6383.838	6.3066010E-09	6.4986798E-09	-1.9207866E-10
6464.646	5.2860996E-09	5.4802736E-09	-1.9417379E-10
6545.455	4.4099604E-09	4.5992725E-09	-1.8931223E-10
6626.263	3.6624235E-09	3.8420453E-09	-1.7962180E-10
6707.071	3.0283660E-09	3.1951777E-09	-1.6681179E-10
6787.879	2.4935825E-09	2.6458042E-09	-1.5222189E-10
6868.687	2.0449278E-09	2.1818012E-09	-1.3687344E-10
6949.495	1.6704548E-09	1.7919760E-09	-1.2152127E-10
7030.303	1.3594168E-09	1.4661168E-09	-1.0669995E-10
7111.111	1.1022709E-09	1.1950393E-09	-9.2768328E-11
7191.919	8.9062463E-10	9.7057007E-10	-7.9945425E-11
7272.728	7.1717449E-10	7.8551921E-10	-6.8344733E-11
7353.536	5.7560834E-10	6.3360917E-10	-5.8000799E-11
7434.344	4.6051973E-10	5.0941112E-10	-4.8891384E-11
7515.152	3.6731077E-10	4.0826681E-10	-4.0956055E-11
7595.960	2.9209646E-10	3.2620634E-10	-3.4109885E-11
7676.768	2.3161506E-10	2.5986921E-10	-2.8254146E-11
7757.576	1.8314605E-10	2.0643076E-10	-2.3284714E-11
7838.384	1.4442790E-10	1.6352528E-10	-1.9097375E-11
7919.192	1.1359779E-10	1.2919008E-10	-1.5592283E-11
8000.000	8.9121724E-11	1.0179768E-10	-1.2675960E-11



Case 1 - Valencia Aldaia - Chlorpyrifos - Waste Application 2 [kg/ha] - Sandy Loam

183.2484	-1.0000000E-30	0.0000000E+00	-141.4141
220.0719	-2.020202	0.0000000E+00	-143.4343
239.5780	-4.040404	0.0000000E+00	-145.4545
236.4245	-6.060606	0.0000000E+00	-147.4747
211.4948	-8.080808	0.0000000E+00	-149.4949
171.4995	-10.10101	0.0000000E+00	-151.5151
126.0583	-12.12121	0.0000000E+00	-153.5353
83.98692	-14.14141	0.0000000E+00	-155.5555
50.71790	-16.16162	0.0000000E+00	-157.5757
27.75847	-18.18182	0.0000000E+00	-159.5959
13.76851	-20.20202	0.0000000E+00	-161.6161
6.188813	-22.22222	0.0000000E+00	-163.6364
2.520729	-24.24242	0.0000000E+00	-165.6566
0.9302561	-26.26262	0.0000000E+00	-167.6768
0.3110498	-28.28283	0.0000000E+00	-169.6970
9.4218634E-02	-30.30303	0.0000000E+00	-171.7172
2.5858676E-02	-32.32323	0.0000000E+00	-173.7374
6.7703794E-03	-34.34343	0.0000000E+00	-175.7576
1.5210985E-03	-36.36364	0.0000000E+00	-177.7778
0.0000000E+00	-38.38383	0.0000000E+00	-179.7980
0.0000000E+00	-40.40404	0.0000000E+00	-181.8182
0.0000000E+00	-42.42424	0.0000000E+00	-183.8384
0.0000000E+00	-44.44444	0.0000000E+00	-185.8586
0.0000000E+00	-46.46465	0.0000000E+00	-187.8788
0.0000000E+00	-48.48485	0.0000000E+00	-189.8990
0.0000000E+00	-50.50505	0.0000000E+00	-191.9192
0.0000000E+00	-52.52525	0.0000000E+00	-193.9394
0.0000000E+00	-54.54545	0.0000000E+00	-195.9596
0.0000000E+00	-56.56565	0.0000000E+00	-197.9798
0.0000000E+00	-58.58586	0.0000000E+00	-200.0000
0.0000000E+00	-60.60606		
0.0000000E+00	-62.62626		
0.0000000E+00	-64.64646		
0.0000000E+00	-66.66666		
0.0000000E+00	-68.68687		
0.0000000E+00	-70.70707		
0.0000000E+00	-72.72727		
0.0000000E+00	-74.74747		
0.0000000E+00	-76.76767		
0.0000000E+00	-78.78787		
0.0000000E+00	-80.80807		
0.0000000E+00	-82.82828		
0.0000000E+00	-84.84848		
0.0000000E+00	-86.86868		
0.0000000E+00	-88.88889		
0.0000000E+00	-90.90909		
0.0000000E+00	-92.92929		
0.0000000E+00	-94.94949		
0.0000000E+00	-96.96970		
0.0000000E+00	-98.98989		
0.0000000E+00	-101.0101		
0.0000000E+00	-103.0303		
0.0000000E+00	-105.0505		
0.0000000E+00	-107.0707		
0.0000000E+00	-109.0909		
0.0000000E+00	-111.1111		
0.0000000E+00	-113.1313		
0.0000000E+00	-115.1515		
0.0000000E+00	-117.1717		
0.0000000E+00	-119.1919		
0.0000000E+00	-121.2121		
0.0000000E+00	-123.2323		
0.0000000E+00	-125.2525		
0.0000000E+00	-127.2727		
0.0000000E+00	-129.2929		
0.0000000E+00	-131.3131		
0.0000000E+00	-133.3333		
0.0000000E+00	-135.3535		
0.0000000E+00	-137.3737		
0.0000000E+00	-139.3939		
0.0000000E+00	-141.4141		

PESTAN  
version 4.0, 1992.

Developed by :

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Robert S. Kerr Environmental Research Laboratory  
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P.O. Box 1198  
Ada, OK 74820

Title: Valencia Aldaia

Solubility (mg/l)	0.14000E+01
Recharge rate (cm/hr)	0.51400E-02
Sorption constant (cc/g)	0.25560E+01
Saturated water content	0.43500E+00
Solid-phase decay (/hr)	0.63000E-01
Liquid-phase decay (/hr)	0.10000E-02
Curve coefficient	0.49000E+01
Bulk density (g/cc)	0.13350E+01
Dispersion coefficient (cm <sup>2</sup> /hr)	0.60000E-01
Saturated hydraulic conductivity	0.44200E+01
Minimum depth (cm)	0.00000E+00
Maximum depth (cm)	0.20000E+03
Minimum time (day)	0.00000E+00
Maximum time (day)	0.80000E+04

For application 1 the active ingredient (ai) applied is 0.200E+01 kg  
ai/ha,  
and has been applied 0.000E+00 days prior to recharge

++++  
Results

Projected water content	0.257E+00
Pore water velocity [cm/hr]	0.200E-01
Pollutant velocity [cm/hr]	0.140E-02
Length of pollutant slug [cm]	0.389E+01
Mass decayed prior to recharge [kg]	0.000E+00

++++

Time = 0.50E+02 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.47E+00	0.12E+01	0.17E+01
20.000	0.00E+00	0.00E+00	0.00E+00
40.000	0.00E+00	0.00E+00	0.00E+00
60.000	0.00E+00	0.00E+00	0.00E+00
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.911E-01  
Pollutant remaining in solid-phase (kg) = 0.121E+01

Total mass of pollutant remaining (kg) = 0.130E+01  
Liquid-phase decay of pollutant (kg) = 0.114E+00

+++++

Time = 0.10E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.39E+00	0.10E+01	0.14E+01
20.000	0.12E-03	0.31E-03	0.44E-03
40.000	0.00E+00	0.00E+00	0.00E+00
60.000	0.00E+00	0.00E+00	0.00E+00
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.919E-01  
Pollutant remaining in solid-phase (kg) = 0.122E+01  
Total mass of pollutant remaining (kg) = 0.131E+01  
Liquid-phase decay of pollutant (kg) = 0.240E+00

+++++

Time = 0.15E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.30E+00	0.76E+00	0.11E+01
20.000	0.32E-02	0.82E-02	0.12E-01
40.000	0.00E+00	0.00E+00	0.00E+00
60.000	0.00E+00	0.00E+00	0.00E+00
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00
140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.895E-01  
Pollutant remaining in solid-phase (kg) = 0.119E+01  
Total mass of pollutant remaining (kg) = 0.128E+01  
Liquid-phase decay of pollutant (kg) = 0.367E+00

+++++

Time = 0.50E+03 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.41E-01	0.11E+00	0.15E+00
20.000	0.82E-01	0.21E+00	0.30E+00
40.000	0.42E-02	0.11E-01	0.15E-01
60.000	0.43E-05	0.11E-04	0.16E-04
80.000	0.00E+00	0.00E+00	0.00E+00
100.000	0.00E+00	0.00E+00	0.00E+00
120.000	0.00E+00	0.00E+00	0.00E+00

140.000	0.00E+00	0.00E+00	0.00E+00
160.000	0.00E+00	0.00E+00	0.00E+00
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.576E-01  
 Pollutant remaining in solid-phase (kg) = 0.766E+00  
 Total mass of pollutant remaining (kg) = 0.824E+00  
 Liquid-phase decay of pollutant (kg) = 0.108E+01

+++++

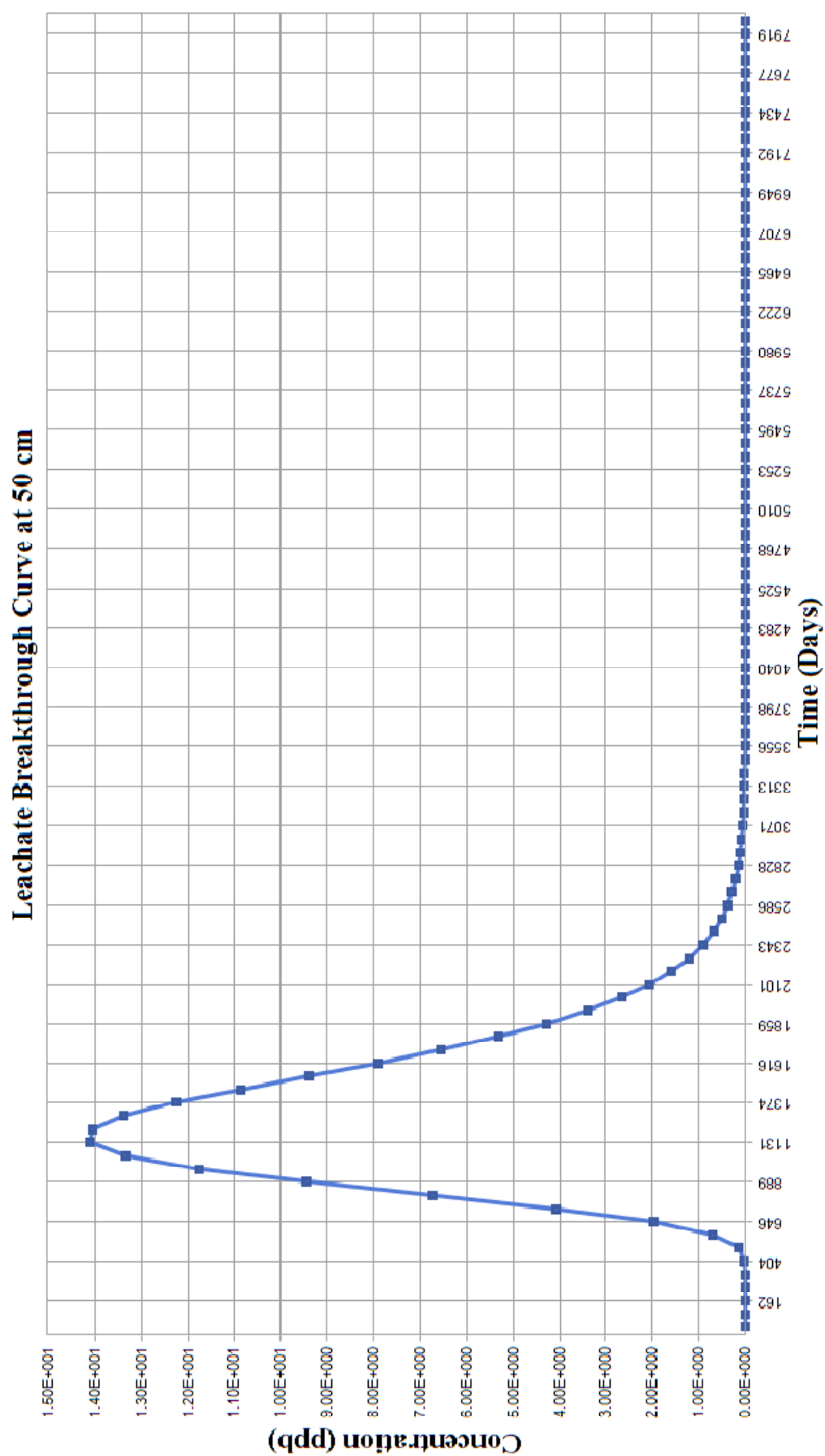
Time = 0.20E+04 (days)

Depth [cm]	Cw [mg/l]	Cs [mg/kg]	Ctot [mg/l]
2.000	0.26E-04	0.68E-04	0.97E-04
20.000	0.30E-03	0.76E-03	0.11E-02
40.000	0.17E-02	0.44E-02	0.63E-02
60.000	0.36E-02	0.93E-02	0.13E-01
80.000	0.29E-02	0.74E-02	0.11E-01
100.000	0.85E-03	0.22E-02	0.31E-02
120.000	0.93E-04	0.24E-03	0.34E-03
140.000	0.38E-05	0.97E-05	0.14E-04
160.000	0.57E-07	0.14E-06	0.21E-06
180.000	0.00E+00	0.00E+00	0.00E+00
200.000	0.00E+00	0.00E+00	0.00E+00

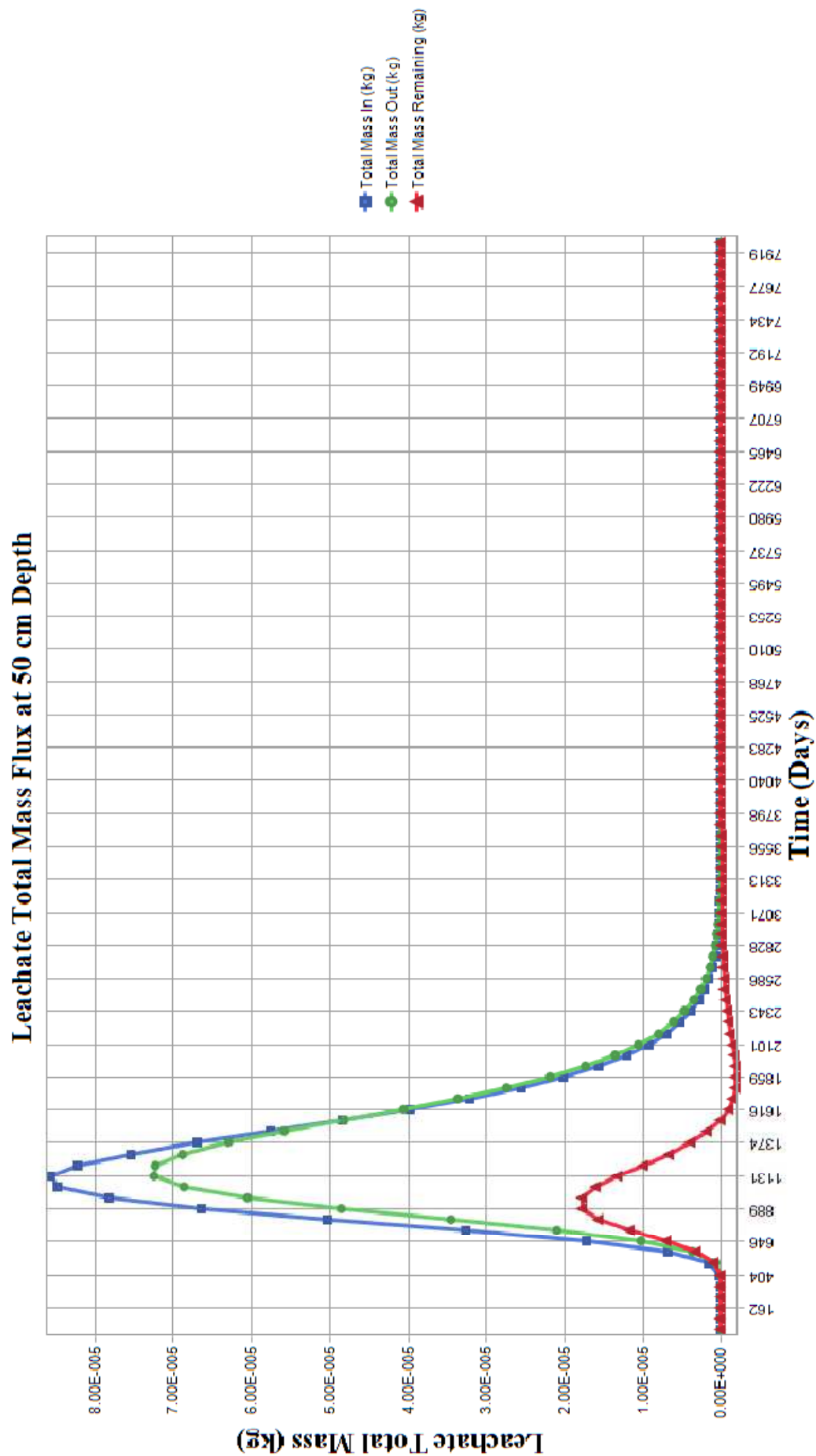
#### MASS BALANCE RESULTS

Pollutant remaining in liquid-phase (kg) = 0.487E-02  
 Pollutant remaining in solid-phase (kg) = 0.648E-01  
 Total mass of pollutant remaining (kg) = 0.697E-01  
 Liquid-phase decay of pollutant (kg) = 0.193E+01



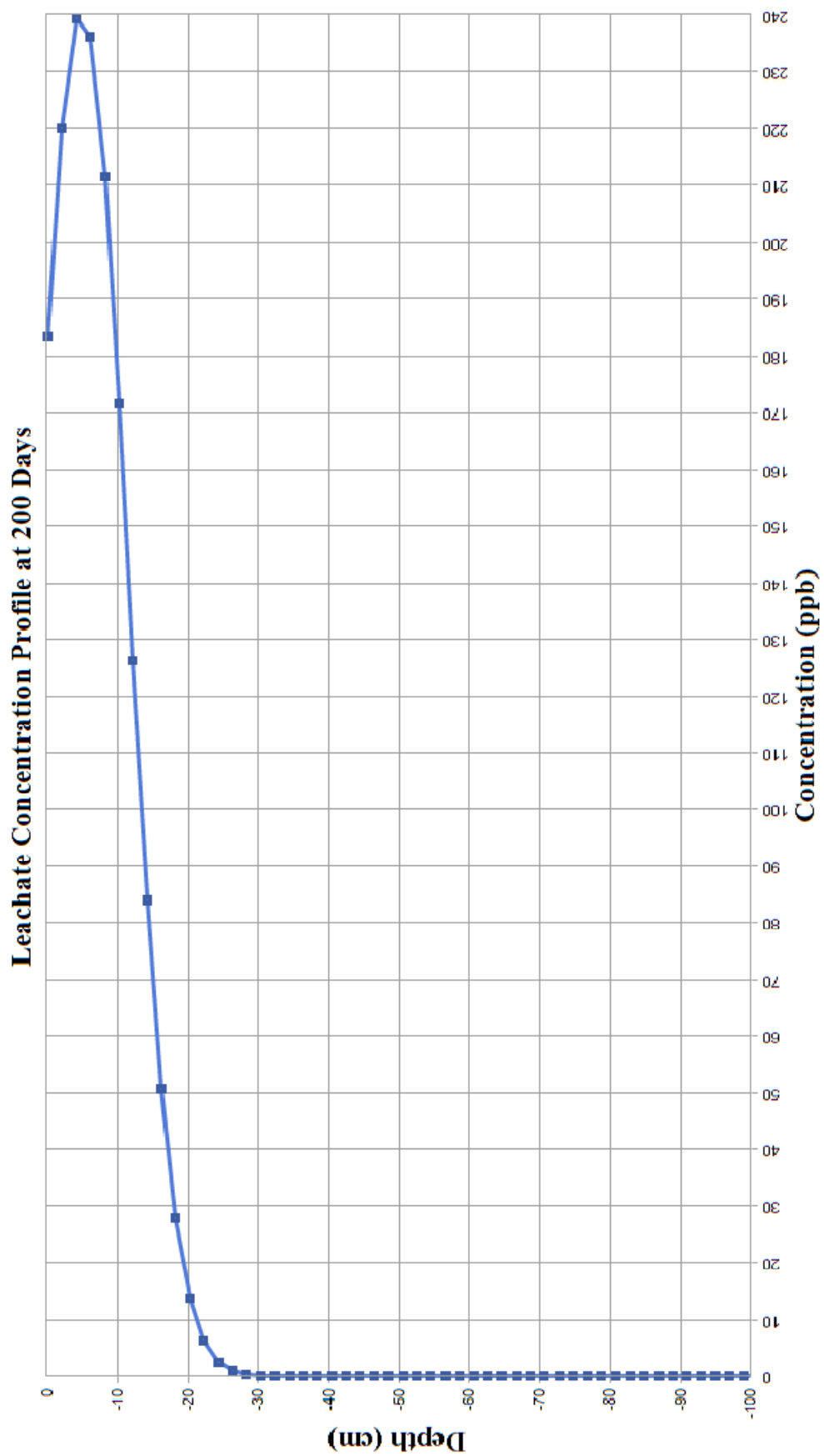


1.000000E-30	0.000000E+00	5656.566	1.1148735E-06
80.80808	0.000000E+00	5737.374	7.8425558E-07
161.6162	0.000000E+00	5818.182	5.5069881E-07
242.4243	0.000000E+00	5898.990	3.8676995E-07
323.2323	5.0930236E-04	5979.798	2.7016995E-07
404.0404	1.6475195E-02	6060.606	1.8967819E-07
484.8485	0.1574085	6141.414	1.3360909E-07
565.6566	0.7087688	6222.222	9.3572929E-08
646.4647	1.992111	6303.030	6.5787816E-08
727.2728	4.088593	6383.838	4.6325326E-08
808.0808	6.733410	6464.646	3.2359573E-08
888.8889	9.449483	6545.455	2.2604114E-08
969.6970	11.76297	6626.263	1.5419570E-08
1050.505	13.35464	6707.071	1.1309564E-08
1131.313	14.10511	6787.879	7.9941112E-09
1212.121	14.06273	6868.687	5.3377582E-09
1292.929	13.37980	6949.495	3.9436916E-09
1373.737	12.25001	7030.303	6.5739121E-09
1454.546	10.86287	7111.111	4.6467385E-09
1535.354	9.377680	7191.919	3.1026826E-09
1616.162	7.913314	7272.728	0.0000000E+00
1696.970	6.548941	7353.536	0.0000000E+00
1777.778	5.329716	7434.344	0.0000000E+00
1858.586	4.274872	7515.152	0.0000000E+00
1939.394	3.385577	7595.960	0.0000000E+00
2020.202	2.651599	7676.768	0.0000000E+00
2101.010	2.056451	7757.576	0.0000000E+00
2181.818	1.581066	7838.384	0.0000000E+00
2262.626	1.206192	7919.192	0.0000000E+00
2343.434	0.9138506	8000.000	0.0000000E+00
2424.242	0.6880733		
2505.051	0.5151854		
2585.859	0.3837927		
2666.667	0.2846034		
2747.475	0.2101710		
2828.283	0.1546172		
2909.091	0.1133538		
2989.899	8.2838535E-02		
3070.707	6.0361989E-02		
3151.515	4.3866020E-02		
3232.323	3.1799290E-02		
3313.131	2.2999240E-02		
3393.939	1.6599312E-02		
3474.748	1.1956904E-02		
3555.556	8.5970769E-03		
3636.364	6.1708763E-03		
3717.172	4.4224560E-03		
3797.980	3.1646730E-03		
3878.788	2.2615180E-03		
3959.596	1.6140679E-03		
4040.404	1.1505593E-03		
4121.212	8.1920350E-04		
4202.021	5.8269413E-04		
4282.829	4.1407978E-04		
4363.636	2.9394019E-04		
4444.444	2.0847245E-04		
4525.252	1.4775925E-04		
4606.061	1.0462427E-04		
4686.869	7.4036128E-05		
4767.677	5.2344716E-05		
4848.485	3.6988553E-05		
4929.293	2.6122878E-05		
5010.101	1.8440915E-05		
5090.909	1.3001636E-05		
5171.717	9.1698885E-06		
5252.525	6.4598880E-06		
5333.333	4.5491615E-06		
5414.142	3.2031944E-06		
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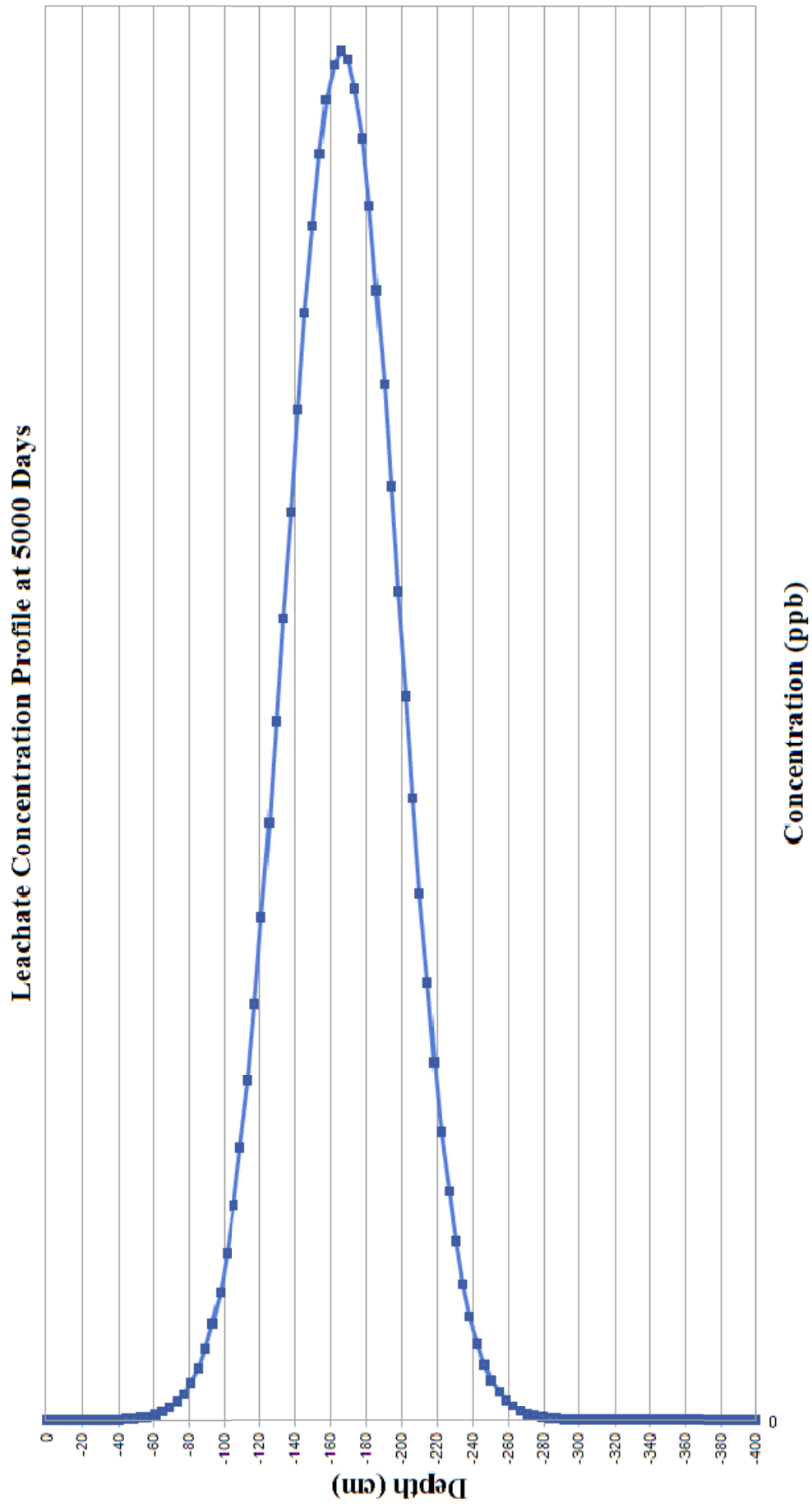


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80.80808	2.7710536E-33	0.0000000E+00	2.7710536E-33
161.6162	6.4542104E-17	0.0000000E+00	6.4542104E-17
242.4243	1.2929240E-11	0.0000000E+00	1.2929240E-11
323.2323	7.0403781E-09	2.6178142E-09	4.4225641E-09
404.0404	2.0242398E-07	8.4682497E-08	1.1774148E-07
484.8485	1.6824747E-06	8.0907955E-07	8.7339521E-07
565.6566	6.7624424E-06	3.6430718E-06	3.1193704E-06
646.4647	1.7287333E-05	1.0239452E-05	7.0478818E-06
727.2728	3.2728669E-05	2.1015368E-05	1.1713302E-05
808.0808	5.0268231E-05	3.4609726E-05	1.5658503E-05
888.8889	6.6368797E-05	4.8570342E-05	1.7798458E-05
969.6970	7.8280078E-05	6.0461654E-05	1.7818425E-05
1050.505	8.4701001E-05	6.8642832E-05	1.6058169E-05
1131.313	8.5681015E-05	7.2500239E-05	1.3180777E-05
1212.121	8.2155013E-05	7.2282404E-05	9.8726086E-06
1292.929	7.5442375E-05	6.8772177E-05	6.6701973E-06
1373.737	6.6870969E-05	6.2965068E-05	3.9059000E-06
1454.546	5.7562866E-05	5.5835142E-05	1.7277223E-06
1535.354	4.8351318E-05	4.8201273E-05	1.5004613E-07
1616.162	3.9781818E-05	4.0674433E-05	-8.9261351E-07
1696.970	3.2159383E-05	3.3661556E-05	-1.5021732E-06
1777.778	2.5607189E-05	2.7394741E-05	-1.7875510E-06
1858.586	2.0125144E-05	2.1972841E-05	-1.8476969E-06
1939.394	1.5637946E-05	1.7401866E-05	-1.7639189E-06
2020.202	1.2031058E-05	1.3629218E-05	-1.5981608E-06
2101.010	9.1755628E-06	1.0570158E-05	-1.3945953E-06
2181.818	6.9440034E-06	8.1266780E-06	-1.1826747E-06
2262.626	5.2192936E-06	6.1998244E-06	-9.8053079E-07
2343.434	3.8990884E-06	4.6971923E-06	-7.9810400E-07
2424.242	2.8969600E-06	3.5366966E-06	-6.3973653E-07
2505.051	2.1418684E-06	2.6480529E-06	-5.0618451E-07
2585.859	1.5766136E-06	1.9726942E-06	-3.9608065E-07
2666.667	1.1559132E-06	1.4628614E-06	-3.0694815E-07
2747.475	8.4440819E-07	1.0802792E-06	-2.3587098E-07
2828.283	6.1482729E-07	7.9473267E-07	-1.7990537E-07
2909.091	4.4632640E-07	5.8263856E-07	-1.3631215E-07
2989.899	3.2311820E-07	4.2579009E-07	-1.0267190E-07
3070.707	2.3333729E-07	3.1026062E-07	-7.6923335E-08
3151.515	1.6811549E-07	2.2547134E-07	-5.7355848E-08
3232.323	1.2086821E-07	1.6344835E-07	-4.2580137E-08
3313.131	8.6730196E-08	1.1821609E-07	-3.1485893E-08
3393.939	6.2122197E-08	8.5320458E-08	-2.3198263E-08
3474.748	4.4422848E-08	6.1458486E-08	-1.7035640E-08
3555.556	3.1716823E-08	4.4188976E-08	-1.2472151E-08
3636.364	2.2612696E-08	3.1718304E-08	-9.1056087E-09
3717.172	1.6100774E-08	2.2731424E-08	-6.6306498E-09
3797.980	1.1449536E-08	1.6266419E-08	-4.8168829E-09
3878.788	8.1326759E-09	1.1624202E-08	-3.4915264E-09
3959.596	5.7706693E-09	8.2963094E-09	-2.5256404E-09
4040.404	4.0904116E-09	5.9138747E-09	-1.8234633E-09
4121.212	2.8965443E-09	4.2107060E-09	-1.3141618E-09
4202.021	2.0495130E-09	2.9950480E-09	-9.4553498E-10
4282.829	1.4491166E-09	2.1283699E-09	-6.7925338E-10
4363.636	1.0236016E-09	1.5108526E-09	-4.8725091E-10
4444.444	7.2250439E-10	1.0715484E-09	-3.4904404E-10
4525.252	5.0976423E-10	7.5948253E-10	-2.4971833E-10
4606.061	3.5932701E-10	5.3776872E-10	-1.7844169E-10
4686.869	2.5318120E-10	3.8054571E-10	-1.2736449E-10
4767.677	1.7824106E-10	2.6905184E-10	-9.0810776E-11
4848.485	1.2543896E-10	1.9012115E-10	-6.4682183E-11
4929.293	8.8243787E-11	1.3427159E-10	-4.6027807E-11
5010.101	6.2062494E-11	9.4786297E-11	-3.2723803E-11
5090.909	4.3583047E-11	6.6828411E-11	-2.3245364E-11
5171.717	3.0634245E-11	4.7133228E-11	-1.6498981E-11
5252.525	2.1502229E-11	3.3203825E-11	-1.1701596E-11
5333.333	1.5089572E-11	2.3382690E-11	-8.2931179E-12
5414.142	1.0591022E-11	1.6464418E-11	-5.8733964E-12
5494.950	7.4243571E-12	1.1581337E-11	-4.1569794E-12
5575.758	5.1939577E-12	8.1342658E-12	-2.9403082E-12
5656.566	3.6519537E-12	5.7304500E-12	-2.0784962E-12

5737.374	2.5626159E-12	4.0310737E-12	-1.4684576E-12
5818.182	1.7936897E-12	2.8305919E-12	-1.0369022E-12
5898.990	1.2562000E-12	1.9879974E-12	-7.3179749E-13
5979.798	8.7245901E-13	1.3886735E-12	-5.1621446E-13
6060.606	6.1097519E-13	9.7494593E-13	-3.6397074E-13
6141.414	4.3024026E-13	6.8675073E-13	-2.5651047E-13
6222.222	3.0026415E-13	4.8096482E-13	-1.8070068E-13
6303.030	2.1090658E-13	3.3814938E-13	-1.2724279E-13
6383.838	1.4854692E-13	2.3811218E-13	-8.9565271E-14
6464.646	1.0330821E-13	1.6632820E-13	-6.3019990E-14
6545.455	7.1858914E-14	1.1618515E-13	-4.4326237E-14
6626.263	4.8089537E-14	7.9256588E-14	-3.1167052E-14
6707.071	3.6224123E-14	5.8131153E-14	-2.1907030E-14
6787.879	2.5696349E-14	4.1089731E-14	-1.5393382E-14
6868.687	1.6622984E-14	2.7436078E-14	-1.0813093E-14
6949.495	1.2677158E-14	2.0270576E-14	-7.5934174E-15
7030.303	2.8458975E-14	3.3789906E-14	-5.3309298E-15
7111.111	2.0142691E-14	2.3884237E-14	-3.7415461E-15
7191.919	1.3322453E-14	1.5947789E-14	-2.6253365E-15
7272.728	-1.8416572E-15	0.0000000E+00	-1.8416572E-15
7353.536	-1.2915961E-15	0.0000000E+00	-1.2915961E-15
7434.344	-9.0561745E-16	0.0000000E+00	-9.0561745E-16
7515.152	-6.3483769E-16	0.0000000E+00	-6.3483769E-16
7595.960	-4.4492597E-16	0.0000000E+00	-4.4492597E-16
7676.768	-3.1175979E-16	0.0000000E+00	-3.1175979E-16
7757.576	-2.1840665E-16	0.0000000E+00	-2.1840665E-16
7838.384	-1.5297709E-16	0.0000000E+00	-1.5297709E-16
7919.192	-1.0712903E-16	0.0000000E+00	-1.0712903E-16
8000.000	-7.5007904E-17	0.0000000E+00	-7.5007904E-17



183.2484	-1.0000000E-30	0.0000000E+00	-141.4141
220.0719	-2.020202	0.0000000E+00	-143.4343
239.5780	-4.040404	0.0000000E+00	-145.4545
236.4245	-6.060606	0.0000000E+00	-147.4747
211.4948	-8.080808	0.0000000E+00	-149.4949
171.4995	-10.10101	0.0000000E+00	-151.5151
126.0583	-12.12121	0.0000000E+00	-153.5353
83.98692	-14.14141	0.0000000E+00	-155.5555
50.71790	-16.16162	0.0000000E+00	-157.5757
27.75847	-18.18182	0.0000000E+00	-159.5959
13.76851	-20.20202	0.0000000E+00	-161.6161
6.188813	-22.22222	0.0000000E+00	-163.6364
2.520729	-24.24242	0.0000000E+00	-165.6566
0.9302561	-26.26262	0.0000000E+00	-167.6768
0.3110498	-28.28283	0.0000000E+00	-169.6970
9.4218634E-02	-30.30303	0.0000000E+00	-171.7172
2.5858676E-02	-32.32323	0.0000000E+00	-173.7374
6.7703794E-03	-34.34343	0.0000000E+00	-175.7576
1.5210985E-03	-36.36364	0.0000000E+00	-177.7778
0.0000000E+00	-38.38383	0.0000000E+00	-179.7980
0.0000000E+00	-40.40404	0.0000000E+00	-181.8182
0.0000000E+00	-42.42424	0.0000000E+00	-183.8384
0.0000000E+00	-44.44444	0.0000000E+00	-185.8586
0.0000000E+00	-46.46465	0.0000000E+00	-187.8788
0.0000000E+00	-48.48485	0.0000000E+00	-189.8990
0.0000000E+00	-50.50505	0.0000000E+00	-191.9192
0.0000000E+00	-52.52525	0.0000000E+00	-193.9394
0.0000000E+00	-54.54545	0.0000000E+00	-195.9596
0.0000000E+00	-56.56565	0.0000000E+00	-197.9798
0.0000000E+00	-58.58586	0.0000000E+00	-200.0000
0.0000000E+00	-60.60606		
0.0000000E+00	-62.62626		
0.0000000E+00	-64.64646		
0.0000000E+00	-66.66666		
0.0000000E+00	-68.68687		
0.0000000E+00	-70.70707		
0.0000000E+00	-72.72727		
0.0000000E+00	-74.74747		
0.0000000E+00	-76.76767		
0.0000000E+00	-78.78787		
0.0000000E+00	-80.80807		
0.0000000E+00	-82.82828		
0.0000000E+00	-84.84848		
0.0000000E+00	-86.86868		
0.0000000E+00	-88.88889		
0.0000000E+00	-90.90909		
0.0000000E+00	-92.92929		
0.0000000E+00	-94.94949		
0.0000000E+00	-96.96970		
0.0000000E+00	-98.98989		
0.0000000E+00	-101.0101		
0.0000000E+00	-103.0303		
0.0000000E+00	-105.0505		
0.0000000E+00	-107.0707		
0.0000000E+00	-109.0909		
0.0000000E+00	-111.1111		
0.0000000E+00	-113.1313		
0.0000000E+00	-115.1515		
0.0000000E+00	-117.1717		
0.0000000E+00	-119.1919		
0.0000000E+00	-121.2121		
0.0000000E+00	-123.2323		
0.0000000E+00	-125.2525		
0.0000000E+00	-127.2727		
0.0000000E+00	-129.2929		
0.0000000E+00	-131.3131		
0.0000000E+00	-133.3333		
0.0000000E+00	-135.3535		
0.0000000E+00	-137.3737		
0.0000000E+00	-139.3939		
0.0000000E+00	-141.4141		



Case 1 – Valencia Aldaia – Chlorpyrifos – Waste Application 2 [kg/ha] – Sandy Loam



0.000000E+00	-1.000000E-30	1.1316135E-05	-286.8687
0.000000E+00	-4.040404	6.9201428E-06	-290.9091
1.4180621E-07	-8.080808	4.1691023E-06	-294.9495
1.2289871E-07	-12.12121	2.4674277E-06	-298.9899
2.2688992E-07	-16.16162	1.4369696E-06	-303.0303
3.9705736E-07	-20.20202	8.3192975E-07	-307.0707
7.1848478E-07	-24.24242	4.6323359E-07	-311.1111
1.2573483E-06	-28.28283	2.5525117E-07	-315.1515
2.1554542E-06	-32.32323	1.3235247E-07	-319.1919
3.6491463E-06	-36.36364	1.6071370E-07	-323.2323
6.0882130E-06	-40.40404	0.0000000E+00	-327.2727
1.0002064E-05	-44.44444	0.0000000E+00	-331.3131
1.6156453E-05	-48.48485	0.0000000E+00	-335.3535
2.5676376E-05	-52.52525	0.0000000E+00	-339.3939
4.0159517E-05	-56.56565	0.0000000E+00	-343.4343
6.1799139E-05	-60.60606	0.0000000E+00	-347.4747
9.3582639E-05	-64.64646	0.0000000E+00	-351.5151
1.3942386E-04	-68.68687	0.0000000E+00	-355.5555
2.0438056E-04	-72.72727	0.0000000E+00	-359.5959
2.9481511E-04	-76.76767	0.0000000E+00	-363.6364
4.1841337E-04	-80.80807	0.0000000E+00	-367.6768
5.8429828E-04	-84.84848	0.0000000E+00	-371.7172
8.0285949E-04	-88.88889	0.0000000E+00	-375.7576
1.0854509E-03	-92.92929	0.0000000E+00	-379.7980
1.4439558E-03	-96.96970	0.0000000E+00	-383.8384
1.8900025E-03	-101.0101	0.0000000E+00	-387.8788
2.4341224E-03	-105.0505	0.0000000E+00	-391.9192
3.0845213E-03	-109.0909	0.0000000E+00	-395.9596
3.8459448E-03	-113.1313	0.0000000E+00	-400.0000
4.7183270E-03	-117.1717		
5.6956178E-03	-121.2121		
6.7649027E-03	-125.2525		
7.9059228E-03	-129.2929		
9.0910159E-03	-133.3333		
1.0285866E-02	-137.3737		
1.1450879E-02	-141.4141		
1.2543146E-02	-145.4545		
1.3518924E-02	-149.4949		
1.4336606E-02	-153.5353		
1.4959571E-02	-157.5757		
1.5358930E-02	-161.6161		
1.5515803E-02	-165.6566		
1.5422427E-02	-169.6970		
1.5083493E-02	-173.7374		
1.4515127E-02	-177.7778		
1.3743843E-02	-181.8182		
1.2804542E-02	-185.8586		
1.1737848E-02	-189.8990		
1.0587214E-02	-193.9394		
9.3960315E-03	-197.9798		
8.2049537E-03	-202.0202		
7.0498008E-03	-206.0606		
5.9600105E-03	-210.1010		
4.9577625E-03	-214.1414		
4.0578316E-03	-218.1818		
3.2679145E-03	-222.2222		
2.5894947E-03	-226.2626		
2.0189516E-03	-230.3030		
1.5488452E-03	-234.3434		
1.1691260E-03	-238.3838		
8.6831721E-04	-242.4242		
6.3455442E-04	-246.4646		
4.5627565E-04	-250.5050		
3.2281710E-04	-254.5454		
2.2473447E-04	-258.5858		
1.5393535E-04	-262.6263		
1.0374541E-04	-266.6667		
6.8794921E-05	-270.7071		
4.4886390E-05	-274.7475		
2.8815020E-05	-278.7879		
1.8207917E-05	-282.8283		

