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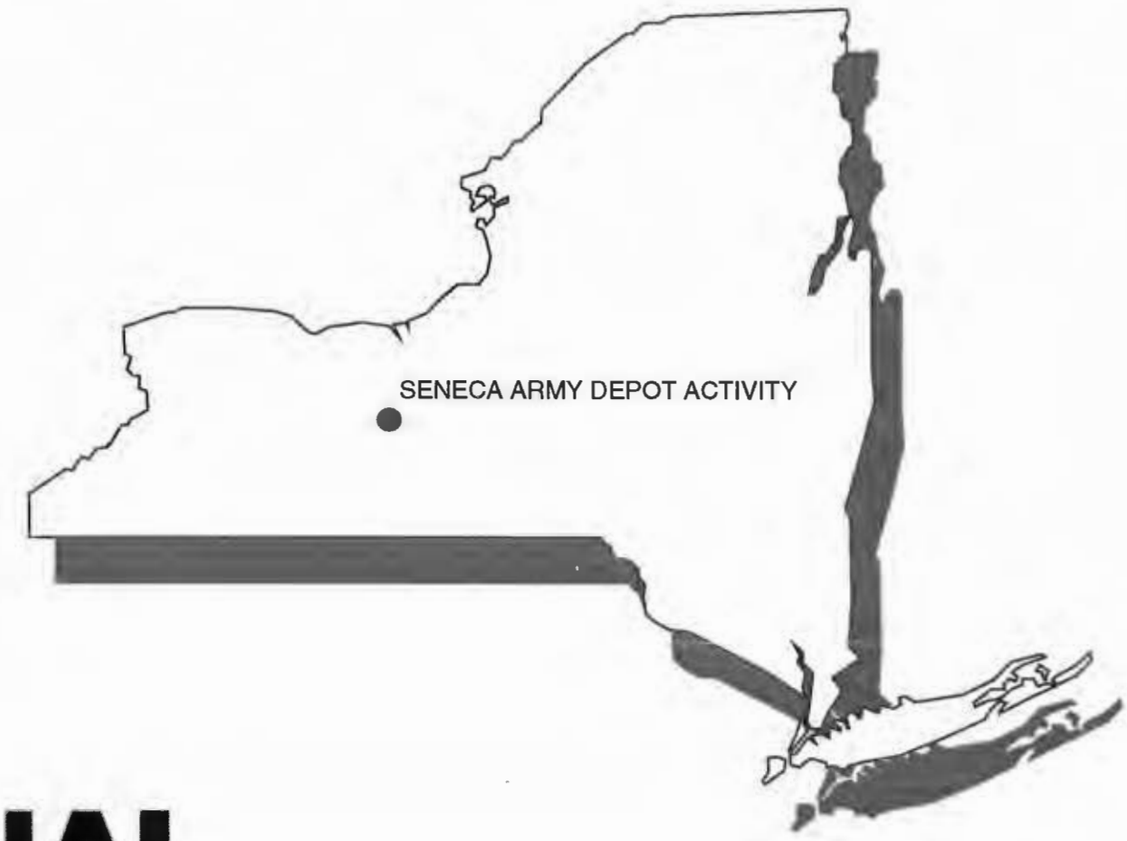
U.S. ARMY ENGINEER DIVISION
HUNTSVILLE, ALABAMA



FINAL

EXPANDED SITE INSPECTION
SEVEN HIGH PRIORITY SWMU's
SEAD 4, 16, 17, 24, 25, 26, AND 45

VOLUME 2 OF 2

DECEMBER 1995

APPENDIX A

GEOPHYSICAL DATA: EM-31

Line	Station	In-Phase	Quad.
LINE 0: SEAD-4, FORMER MUNITIONS WASHOUT FACILITY			
0.000	0.000	-92.853	-32.247
0.000	5.000	-92.816	-32.247
0.000	10.000	-92.422	-32.247
0.000	15.000	20.727	-14.201
0.000	20.000	39.733	6.952
0.000	25.000	19.747	2.421
0.000	30.000	17.111	-0.430
0.000	35.000	18.237	-0.424
0.000	40.000	18.228	0.264
0.000	45.000	18.539	0.218
0.000	50.000	18.685	-0.240
0.000	55.000	19.052	-0.503
0.000	60.000	18.924	-0.395
0.000	65.000	18.521	0.213
0.000	70.000	18.402	0.970
0.000	75.000	18.493	0.292
0.000	80.000	18.594	0.384
0.000	85.000	18.521	0.591
0.000	90.000	18.511	0.690
0.000	95.000	19.143	3.085
0.000	100.000	19.015	0.773
0.000	105.000	19.747	-0.027
0.000	110.000	19.326	-0.045
0.000	115.000	19.262	0.615
0.000	120.000	20.370	4.872
0.000	125.000	21.423	3.158
0.000	130.000	22.806	1.855
0.000	135.000	17.422	-2.278
0.000	140.000	9.384	-0.286
0.000	145.000	8.203	-3.937
0.000	150.000	19.446	1.185
0.000	155.000	18.814	-0.055
0.000	160.000	18.384	-0.139
0.000	165.000	18.090	0.883
0.000	170.000	19.015	4.343
0.000	175.000	19.107	2.690
0.000	180.000	18.402	1.062
0.000	185.000	17.880	0.775
0.000	190.000	17.990	0.791
0.000	195.000	19.152	-0.470
0.000	200.000	19.693	-2.478
0.000	205.000	19.381	-2.153
0.000	210.000	18.915	0.532
0.000	215.000	18.228	1.330
0.000	220.000	18.777	0.764
0.000	225.000	19.583	0.826
0.000	230.000	20.132	0.343
0.000	235.000	20.315	1.317
0.000	240.000	20.343	1.427
0.000	245.000	20.800	1.971
0.000	250.000	21.396	0.718
0.000	255.000	22.155	0.814
0.000	260.000	23.217	1.304
0.000	265.000	25.195	1.556
0.000	270.000	27.832	2.065
0.000	275.000	29.937	3.142
0.000	280.000	30.386	2.759
0.000	285.000	28.509	2.164
0.000	290.000	21.688	0.406
0.000	295.000	10.052	-1.600
0.000	300.000	19.473	0.731
LINE 10			
10.000	300.000	30.212	3.351
10.000	295.000	31.063	3.516
10.000	290.000	29.342	3.665
10.000	285.000	18.411	0.157
10.000	280.000	10.592	0.113
10.000	275.000	10.226	-0.007
10.000	270.000	23.163	2.589
10.000	265.000	33.252	3.492
10.000	260.000	31.933	3.770
10.000	255.000	29.883	2.289
10.000	250.000	27.172	2.079
10.000	245.000	24.352	1.073
10.000	240.000	23.227	1.198
10.000	235.000	22.082	0.738
10.000	230.000	21.405	0.560
10.000	225.000	20.672	0.889
10.000	220.000	19.775	0.635
10.000	215.000	19.381	0.850
10.000	210.000	18.942	0.242
10.000	205.000	18.667	-0.093
10.000	200.000	18.750	1.537
10.000	195.000	18.337	0.202
10.000	190.000	17.175	0.108
10.000	185.000	17.038	-0.207
10.000	180.000	17.496	0.056
10.000	175.000	18.365	-0.095
10.000	170.000	18.063	0.905
10.000	165.000	17.679	1.201
10.000	160.000	17.761	1.245
10.000	155.000	17.651	0.312
10.000	150.000	18.347	0.373
10.000	145.000	18.292	0.290
10.000	140.000	18.127	0.442
10.000	135.000	18.548	1.265
10.000	130.000	18.777	0.973
10.000	125.000	18.447	1.282
10.000	120.000	18.182	1.223
10.000	115.000	18.255	0.461
10.000	110.000	18.017	0.771
10.000	105.000	16.690	0.562
10.000	100.000	18.558	-0.244
10.000	95.000	18.530	0.214
10.000	90.000	18.246	0.975
10.000	85.000	17.935	0.431
10.000	80.000	18.228	2.265
10.000	75.000	18.173	2.642
10.000	70.000	17.788	1.653
10.000	65.000	17.578	1.210
10.000	60.000	17.816	1.344
10.000	55.000	17.962	0.769
10.000	50.000	17.431	-0.284
10.000	45.000	17.688	0.056
10.000	40.000	17.770	-0.062
10.000	35.000	17.614	0.134
10.000	30.000	17.541	1.076
10.000	25.000	17.541	1.356
10.000	20.000	17.431	0.768
10.000	15.000	19.573	2.906
10.000	10.000	4.275	-11.182
10.000	5.000	-63.327	-32.241
10.000	0.000	-57.907	-32.243
LINE 20			
20.000	0.000	20.910	1.653
20.000	5.000	20.974	1.918
20.000	10.000	20.022	2.124
20.000	15.000	18.741	2.210
20.000	20.000	18.145	1.326
20.000	25.000	17.935	2.265

Line	Station	In-Phase	Quad.
20.000	30.000	16.470	1.539
20.000	35.000	16.159	0.126
20.000	40.000	17.578	0.812
20.000	45.000	17.916	0.509
20.000	50.000	17.605	0.169
20.000	55.000	18.393	-0.459
20.000	60.000	17.907	0.056
20.000	65.000	17.496	-0.159
20.000	70.000	17.916	0.613
20.000	75.000	18.310	2.802
20.000	80.000	18.173	0.949
20.000	85.000	18.090	0.183
20.000	90.000	18.356	1.633
20.000	95.000	18.182	1.326
20.000	100.000	18.200	0.598
20.000	105.000	18.420	0.071
20.000	110.000	18.274	0.209
20.000	115.000	17.230	0.090
20.000	120.000	16.406	0.453
20.000	125.000	17.660	1.602
20.000	130.000	18.466	1.115
20.000	135.000	18.868	3.897
20.000	140.000	16.726	1.282
20.000	145.000	15.811	-0.749
20.000	150.000	19.198	0.358
20.000	155.000	18.750	0.112
20.000	160.000	19.436	4.801
20.000	165.000	17.853	3.388
20.000	170.000	17.257	2.217
20.000	175.000	17.523	2.070
20.000	180.000	16.992	1.047
20.000	185.000	17.001	0.940
20.000	190.000	16.699	0.330
20.000	195.000	16.836	0.777
20.000	200.000	18.484	-0.121
20.000	205.000	18.713	0.169
20.000	210.000	18.722	1.607
20.000	215.000	18.713	0.861
20.000	220.000	19.061	0.665
20.000	225.000	19.949	2.342
20.000	230.000	20.571	2.017
20.000	235.000	21.908	0.966
20.000	240.000	23.116	1.321
20.000	245.000	24.646	4.323
20.000	250.000	29.077	1.587
20.000	255.000	31.668	1.872
20.000	260.000	32.611	1.863
20.000	265.000	31.585	1.828
20.000	270.000	26.156	0.905
20.000	275.000	13.055	-0.373
20.000	280.000	8.560	-0.400
20.000	285.000	18.905	2.410
20.000	290.000	28.995	3.377
20.000	295.000	31.677	3.838
20.000	300.000	28.674	2.954
LINE 30			
30.000	300.000	23.611	1.708
30.000	295.000	24.234	1.964
30.000	290.000	25.753	2.566
30.000	285.000	28.006	3.724
30.000	280.000	31.750	4.250
30.000	275.000	35.019	5.218
30.000	270.000	32.244	3.946
30.000	265.000	19.958	2.916
30.000	260.000	6.848	-1.861
30.000	255.000	9.393	-1.280
30.000	250.000	25.534	0.843
30.000	245.000	30.523	0.982
30.000	240.000	29.589	1.188
30.000	235.000	27.273	3.300
30.000	230.000	24.820	1.017
30.000	225.000	22.906	2.651
30.000	220.000	21.075	2.561
30.000	215.000	20.178	2.100
30.000	210.000	19.326	0.317
30.000	205.000	19.354	-0.200
30.000	200.000	17.797	0.385
30.000	195.000	17.715	-0.086
30.000	190.000	17.880	2.377
30.000	185.000	17.715	2.252
30.000	180.000	17.697	0.856
30.000	175.000	17.431	0.452
30.000	170.000	17.514	1.951
30.000	165.000	16.323	0.356
30.000	160.000	16.305	0.450
30.000	155.000	18.337	4.077
30.000	150.000	18.594	0.297
30.000	145.000	18.704	0.202
30.000	140.000	19.098	7.619
30.000	135.000	17.733	3.353
30.000	130.000	17.871	3.011
30.000	125.000	18.676	5.780
30.000	120.000	18.008	2.256
30.000	115.000	17.092	0.554
30.000	110.000	17.120	0.731
30.000	105.000	17.514	0.766
30.000	100.000	16.974	-0.073
30.000	95.000	17.614	-0.242
30.000	90.000	17.614	-0.069
30.000	85.000	17.889	0.588
30.000	80.000	17.724	1.666
30.000	75.000	17.596	0.446
30.000	70.000	17.449	-0.117
30.000	65.000	17.083	0.540
30.000	60.000	15.820	1.210
30.000	55.000	16.387	0.589
30.000	50.000	17.184	0.207
30.000	45.000	17.248	-0.095
30.000	40.000	17.275	-0.042
30.000	35.000	17.322	0.762
30.000	30.000	16.754	0.621
30.000	25.000	16.067	0.453
30.000	20.000	16.662	0.404
30.000	15.000	17.587	0.227
30.000	10.000	17.651	0.564
30.000	5.000	16.443	1.888
30.000	0.000	17.358	-0.068
LINE 40			
40.000	0.000	17.285	-0.440
40.000	5.000	17.092	-0.404
40.000	10.000	16.653	0.180
40.000	15.000	16.479	-0.071
40.000	20.000	17.825	0.268
40.000	25.000	17.449	0.360
40.000	30.000	17.092	0.527
40.000	35.000	17.083	0.402
40.000	40.000	17.431	0.115
40.000	45.000	17.523	0.365
40.000	50.000	17.257	0.147
40.000	55.000	17.193	-0.367
40.000	60.000	17.614	0.174
40.000	65.000	17.999	0.633

Line	Station	In-Phase	Quad.
40.000	70.000	17.788	-0.088
40.000	75.000	17.862	1.701
40.000	80.000	18.200	2.094
40.000	85.000	17.587	0.858
40.000	90.000	17.440	1.190
40.000	95.000	17.138	-0.244
40.000	100.000	18.027	-0.314
40.000	105.000	17.550	-0.227
40.000	110.000	17.587	1.528
40.000	115.000	17.843	2.157
40.000	120.000	17.550	0.323
40.000	125.000	18.640	1.429
40.000	130.000	18.365	2.032
40.000	135.000	17.733	0.444
40.000	140.000	18.081	1.210
40.000	145.000	18.045	0.479
40.000	150.000	18.036	0.525
40.000	155.000	18.145	0.170
40.000	160.000	18.100	0.883
40.000	165.000	17.679	3.746
40.000	170.000	18.777	6.524
40.000	175.000	17.431	2.098
40.000	180.000	18.008	-0.001
40.000	185.000	18.704	0.253
40.000	190.000	18.841	2.087
40.000	195.000	18.228	1.337
40.000	200.000	18.915	0.253
40.000	205.000	18.795	0.104
40.000	210.000	19.290	0.635
40.000	215.000	20.461	0.415
40.000	220.000	21.853	1.060
40.000	225.000	23.492	1.394
40.000	230.000	26.541	3.577
40.000	235.000	29.022	2.530
40.000	240.000	30.816	1.330
40.000	245.000	29.278	1.152
40.000	250.000	18.933	-0.062
40.000	255.000	3.927	-2.587
40.000	260.000	8.450	-1.054
40.000	265.000	35.211	4.540
40.000	270.000	46.115	8.171
40.000	275.000	40.677	6.590
40.000	280.000	33.837	4.626
40.000	285.000	29.095	4.134
40.000	290.000	26.138	4.496
40.000	295.000	24.573	2.416
40.000	300.000	24.169	1.653
LINE 50			
50.000	300.000	21.579	1.491
50.000	295.000	21.688	1.605
50.000	290.000	23.364	4.566
50.000	285.000	25.534	3.724
50.000	280.000	27.694	6.908
50.000	275.000	30.331	7.121
50.000	270.000	34.662	6.927
50.000	265.000	41.235	7.913
50.000	260.000	42.068	6.352
50.000	255.000	21.697	0.784
50.000	250.000	-5.172	-4.676
50.000	245.000	30.908	-0.192
50.000	240.000	33.133	2.803
50.000	235.000	18.594	1.727
50.000	230.000	18.118	0.343
50.000	225.000	25.094	1.107
50.000	220.000	27.969	0.597
50.000	215.000	26.394	1.648
50.000	210.000	23.995	3.957
50.000	205.000	21.103	0.859
50.000	200.000	19.665	0.361
50.000	195.000	20.068	-0.128
50.000	190.000	20.169	-0.115
50.000	185.000	18.576	0.356
50.000	180.000	17.083	0.303
50.000	175.000	17.184	0.069
50.000	170.000	17.111	4.310
50.000	165.000	17.193	2.136
50.000	160.000	18.072	1.137
50.000	155.000	18.356	0.755
50.000	150.000	16.854	0.722
50.000	145.000	16.140	0.062
50.000	140.000	18.182	2.820
50.000	135.000	17.788	3.502
50.000	130.000	15.985	0.615
50.000	125.000	17.028	1.093
50.000	120.000	18.017	0.707
50.000	115.000	18.063	0.101
50.000	110.000	17.853	-0.112
50.000	105.000	17.907	0.415
50.000	100.000	18.539	-0.222
50.000	95.000	18.255	0.378
50.000	90.000	18.027	-0.009
50.000	85.000	18.274	0.323
50.000	80.000	18.292	0.610
50.000	75.000	18.356	0.209
50.000	70.000	17.697	0.196
50.000	65.000	17.367	-0.023
50.000	60.000	17.294	-0.369
50.000	55.000	17.596	-0.152
50.000	50.000	17.578	-0.396
50.000	45.000	17.706	-0.152
50.000	40.000	17.120	-0.169
50.000	35.000	17.074	0.222
50.000	30.000	17.157	1.218
50.000	25.000	17.148	1.958
50.000	20.000	16.946	0.900
50.000	15.000	16.983	0.130
50.000	10.000	16.726	0.321
50.000	5.000	15.829	0.790
50.000	0.000	16.021	0.124
LINE 60			
60.000	0.000	17.706	-0.194
60.000	5.000	16.470	0.135
60.000	10.000	15.353	1.093
60.000	15.000	15.884	0.486
60.000	20.000	16.708	1.109
60.000	25.000	16.617	0.801
60.000	30.000	16.461	0.935
60.000	35.000	16.708	0.347
60.000	40.000	16.827	0.025
60.000	45.000	17.331	-0.124
60.000	50.000	17.816	-0.316
60.000	55.000	18.100	-0.395
60.000	60.000	17.916	-0.380
60.000	65.000	17.569	-0.293
60.000	70.000	17.569	0.336
60.000	75.000	17.816	0.152
60.000	80.000	18.072	-0.330
60.000	85.000	18.008	-0.231
60.000	90.000	17.898	0.000
60.000	95.000	17.688	-0.299
60.000	100.000	17.669	-0.236
60.000	105.000	18.109	0.189

Line	Station	In-Phase	Quad.
60.000	110.000	18.374	0.005
60.000	115.000	18.136	0.132
60.000	120.000	17.953	-0.161
60.000	125.000	18.621	-0.382
60.000	130.000	18.694	-0.194
60.000	135.000	17.431	0.143
60.000	140.000	14.483	-0.088
60.000	145.000	16.589	-0.347
60.000	150.000	17.184	-0.187
60.000	155.000	16.690	-0.209
60.000	160.000	18.072	-0.058
60.000	165.000	18.649	-0.095
60.000	170.000	18.100	2.704
60.000	175.000	16.992	3.301
60.000	180.000	17.111	3.748
60.000	185.000	17.221	2.267
60.000	190.000	17.779	0.075
60.000	195.000	18.393	-0.029
60.000	200.000	19.848	-0.121
60.000	205.000	20.416	0.135
60.000	210.000	21.798	1.142
60.000	215.000	23.931	2.241
60.000	220.000	27.667	0.975
60.000	225.000	28.454	0.505
60.000	230.000	23.172	0.488
60.000	235.000	12.048	0.216
60.000	240.000	18.731	2.743
60.000	245.000	46.380	5.089
60.000	250.000	76.006	6.649
60.000	255.000	13.174	-3.509
60.000	260.000	-16.067	-6.427
60.000	265.000	6.436	1.446
60.000	270.000	43.487	8.217
60.000	275.000	42.627	7.728
60.000	280.000	32.290	4.426
60.000	285.000	28.921	3.505
60.000	290.000	26.751	3.504
60.000	295.000	23.666	2.456
60.000	300.000	20.992	1.664
LINE 70			
70.000	300.000	22.815	1.881
70.000	295.000	22.686	1.971
70.000	290.000	23.153	3.935
70.000	285.000	24.005	3.384
70.000	280.000	25.717	5.306
70.000	275.000	28.417	4.854
70.000	270.000	34.524	5.047
70.000	265.000	45.025	7.087
70.000	260.000	53.530	8.277
70.000	255.000	3.378	-3.564
70.000	250.000	-23.373	-8.009
70.000	245.000	24.399	1.622
70.000	240.000	81.280	8.713
70.000	235.000	84.549	7.783
70.000	230.000	65.313	5.284
70.000	225.000	39.047	2.605
70.000	220.000	16.983	1.348
70.000	215.000	12.945	1.120
70.000	210.000	18.823	0.845
70.000	205.000	24.609	1.736
70.000	200.000	25.030	0.876
70.000	195.000	20.865	-0.020
70.000	190.000	19.747	0.861
70.000	185.000	18.658	0.152
70.000	180.000	18.814	1.405
70.000	175.000	18.008	0.801
70.000	170.000	17.239	0.330
70.000	165.000	16.699	0.106
70.000	160.000	16.891	0.944
70.000	155.000	17.349	1.181
70.000	150.000	17.331	0.982
70.000	145.000	18.109	-0.189
70.000	140.000	17.788	0.242
70.000	135.000	15.307	0.418
70.000	130.000	14.511	2.421
70.000	125.000	17.889	0.244
70.000	120.000	19.674	-0.452
70.000	115.000	19.198	0.824
70.000	110.000	18.841	-0.022
70.000	105.000	18.228	-0.042
70.000	100.000	18.502	-0.407
70.000	95.000	18.466	-0.430
70.000	90.000	18.548	2.412
70.000	85.000	17.889	0.575
70.000	80.000	17.825	0.189
70.000	75.000	17.834	1.681
70.000	70.000	17.632	0.637
70.000	65.000	17.679	-0.251
70.000	60.000	17.679	-0.148
70.000	55.000	17.449	-0.242
70.000	50.000	17.532	-0.012
70.000	45.000	17.770	-0.270
70.000	40.000	17.505	0.938
70.000	35.000	17.294	0.393
70.000	30.000	17.340	1.442
70.000	25.000	16.800	2.326
70.000	20.000	16.580	1.174
70.000	15.000	16.754	-0.134
70.000	10.000	16.635	0.286
70.000	5.000	16.049	0.536
70.000	0.000	16.021	0.264
LINE 80			
80.000	0.000	16.497	-0.226
80.000	5.000	16.296	-0.222
80.000	10.000	15.976	0.791
80.000	15.000	16.351	1.354
80.000	20.000	16.570	0.834
80.000	25.000	16.369	1.736
80.000	30.000	16.223	0.525
80.000	35.000	16.800	0.990
80.000	40.000	16.424	1.124
80.000	45.000	16.827	0.200
80.000	50.000	17.138	0.452
80.000	55.000	16.781	-0.088
80.000	60.000	16.800	0.139
80.000	65.000	17.303	-0.169
80.000	70.000	17.596	0.000
80.000	75.000	17.596	0.001
80.000	80.000	17.642	-0.266
80.000	85.000	18.447	-0.203
80.000	90.000	17.733	-0.049
80.000	95.000	17.651	-0.051
80.000	100.000	18.036	-0.319
80.000	105.000	17.770	-0.181
80.000	110.000	17.651	0.317
80.000	115.000	17.953	0.384
80.000	120.000	17.889	0.110
80.000	125.000	18.283	-0.095
80.000	130.000	18.173	-0.266
80.000	135.000	16.049	-0.213
80.000	140.000	14.959	0.314
80.000	145.000	16.626	0.376

Line	Station	In-Phase	Quad.
80.000	150.000	17.752	-0.003
80.000	155.000	18.072	-0.497
80.000	160.000	17.340	-1.008
80.000	165.000	17.047	-0.430
80.000	170.000	16.086	0.161
80.000	175.000	15.042	2.171
80.000	180.000	17.843	4.815
80.000	185.000	17.385	2.596
80.000	190.000	18.704	2.996
80.000	195.000	19.885	1.517
80.000	200.000	25.854	0.391
80.000	205.000	24.499	0.431
80.000	210.000	21.817	1.675
80.000	215.000	14.291	1.117
80.000	220.000	11.920	1.170
80.000	225.000	22.027	1.532
80.000	230.000	41.427	2.794
80.000	235.000	52.020	3.276
80.000	240.000	58.017	3.862
80.000	245.000	66.604	6.346
80.000	250.000	78.927	7.746
80.000	255.000	36.483	-0.106
80.000	260.000	-21.166	-8.858
80.000	265.000	-20.123	-4.942
80.000	270.000	28.473	4.246
80.000	275.000	50.701	9.108
80.000	280.000	41.372	6.306
80.000	285.000	32.391	5.708
80.000	290.000	28.839	4.121
80.000	295.000	27.538	2.961
80.000	300.000	26.330	2.894
LINE 90			
90.000	300.000	38.196	4.317
90.000	295.000	38.370	4.679
90.000	290.000	37.573	5.113
90.000	285.000	38.003	5.596
90.000	280.000	40.017	5.824
90.000	275.000	43.990	7.691
90.000	270.000	50.390	8.492
90.000	265.000	45.465	5.674
90.000	260.000	16.891	-1.556
90.000	255.000	-3.790	-5.486
90.000	250.000	95.755	7.810
90.000	245.000	82.607	5.957
90.000	240.000	82.360	8.450
90.000	235.000	64.911	5.394
90.000	230.000	50.784	3.086
90.000	225.000	57.129	6.098
90.000	220.000	56.570	4.703
90.000	215.000	45.904	2.543
90.000	210.000	36.227	1.120
90.000	205.000	23.337	0.275
90.000	200.000	15.344	-0.137
90.000	195.000	18.173	0.712
90.000	190.000	19.848	0.463
90.000	185.000	14.446	-2.475
90.000	180.000	15.280	0.172
90.000	175.000	16.021	0.949
90.000	170.000	16.461	1.631
90.000	165.000	16.470	2.186
90.000	160.000	17.148	0.268
90.000	155.000	18.210	0.736
90.000	150.000	17.486	2.960
90.000	145.000	17.614	0.350
90.000	140.000	17.743	2.098
90.000	135.000	17.083	0.808
90.000	130.000	16.204	0.290
90.000	125.000	16.809	1.409
90.000	120.000	17.733	2.379
90.000	115.000	17.898	0.821
90.000	110.000	17.743	-0.060
90.000	105.000	17.752	0.328
90.000	100.000	17.871	0.338
90.000	95.000	17.916	0.240
90.000	90.000	16.955	0.209
90.000	85.000	16.570	1.616
90.000	80.000	17.322	0.679
90.000	75.000	17.376	0.238
90.000	70.000	16.864	0.440
90.000	65.000	16.763	0.148
90.000	60.000	17.047	-0.009
90.000	55.000	16.955	-0.170
90.000	50.000	18.017	-0.268
90.000	45.000	17.944	-0.382
90.000	40.000	18.008	0.260
90.000	35.000	18.750	0.104
90.000	30.000	17.559	0.709
90.000	25.000	14.712	1.102
90.000	20.000	14.987	0.773
90.000	15.000	16.635	0.521
90.000	10.000	17.074	0.512
90.000	5.000	17.193	0.101
90.000	0.000	16.946	-0.104
LINE 100			
100.000	0.000	17.047	-0.286
100.000	5.000	17.074	-0.194
100.000	10.000	17.166	-0.123
100.000	15.000	18.530	-0.157
100.000	20.000	18.210	-0.161
100.000	25.000	17.889	-0.255
100.000	30.000	18.337	-0.305
100.000	35.000	14.611	-0.202
100.000	40.000	11.535	-0.249
100.000	45.000	15.381	-0.409
100.000	50.000	19.143	-0.635
100.000	55.000	19.281	-0.615
100.000	60.000	18.191	-0.514
100.000	65.000	17.449	-0.345
100.000	70.000	16.974	0.023
100.000	75.000	17.221	-0.068
100.000	80.000	17.019	0.415
100.000	85.000	16.873	0.453
100.000	90.000	16.891	-0.141
100.000	95.000	17.166	0.545
100.000	100.000	18.145	0.101
100.000	105.000	18.393	-0.310
100.000	110.000	17.953	-0.288
100.000	115.000	17.632	-0.178
100.000	120.000	18.750	-0.325
100.000	125.000	20.114	-0.382
100.000	130.000	20.123	-0.113
100.000	135.000	19.345	0.033
100.000	140.000	20.059	-0.108
100.000	145.000	20.818	-0.152
100.000	150.000	20.114	1.161
100.000	155.000	16.818	0.604
100.000	160.000	16.387	-0.718
100.000	165.000	18.255	-0.328
100.000	170.000	18.402	-0.282
100.000	175.000	18.337	-0.236
100.000	180.000	18.805	-0.189
100.000	185.000	18.878	-0.194

Line	Station	In-Phase	Quad.
100.000	190.000	18.109	-0.236
100.000	195.000	17.376	-0.310
100.000	200.000	16.937	-0.470
100.000	205.000	18.219	-0.503
100.000	210.000	20.791	-0.244
100.000	215.000	25.708	0.229
100.000	220.000	32.794	0.747
100.000	225.000	46.161	1.256
100.000	230.000	66.384	2.190
100.000	235.000	85.894	3.101
100.000	240.000	99.453	4.097
100.000	245.000	112.692	5.284
100.000	250.000	122.836	7.070
100.000	255.000	96.954	5.258
100.000	260.000	-0.311	-2.690
100.000	265.000	-34.515	-6.844
100.000	270.000	24.682	0.841
100.000	275.000	65.790	8.397
100.000	280.000	64.517	9.038
100.000	285.000	58.182	7.924
100.000	290.000	54.547	7.296
100.000	295.000	51.599	6.611
100.000	300.000	46.435	5.563
LINE 110			
110.000	300.000	31.219	1.093
110.000	295.000	25.488	0.154
110.000	290.000	20.095	-0.499
110.000	285.000	20.809	-0.044
110.000	280.000	32.391	2.261
110.000	275.000	54.135	5.923
110.000	270.000	66.970	7.855
110.000	265.000	46.179	4.667
110.000	260.000	-4.843	-3.577
110.000	255.000	1.044	-4.542
110.000	250.000	94.638	4.130
110.000	245.000	122.571	7.623
110.000	240.000	113.506	5.918
110.000	235.000	87.222	3.862
110.000	230.000	70.834	2.901
110.000	225.000	46.692	1.462
110.000	220.000	23.190	0.319
110.000	215.000	19.756	-0.266
110.000	210.000	25.461	-0.123
110.000	205.000	25.048	0.091
110.000	200.000	21.780	-0.042
110.000	195.000	19.006	0.101
110.000	190.000	17.202	0.187
110.000	185.000	17.157	-0.220
110.000	180.000	17.138	-0.279
110.000	175.000	18.347	-0.268
110.000	170.000	19.216	-0.110
110.000	165.000	20.104	-0.172
110.000	160.000	21.862	-0.174
110.000	155.000	22.512	-0.205
110.000	150.000	19.262	-0.384
110.000	145.000	12.991	-0.893
110.000	140.000	13.137	-1.130
110.000	135.000	19.674	-0.347
110.000	130.000	25.204	-0.163
110.000	125.000	24.435	-0.238
110.000	120.000	22.054	-0.297
110.000	115.000	21.066	-0.244
110.000	110.000	20.526	-0.299
110.000	105.000	19.317	-0.374
110.000	100.000	19.089	-0.305
110.000	95.000	19.042	-0.417
110.000	90.000	18.750	-0.380
110.000	85.000	18.319	-0.358
110.000	80.000	18.118	-0.347
110.000	75.000	17.907	-0.323
110.000	70.000	17.496	-0.181
110.000	65.000	17.733	-0.363
110.000	60.000	18.411	-0.512
110.000	55.000	19.399	-0.578
110.000	50.000	19.830	-0.661
110.000	45.000	21.624	-0.714
110.000	40.000	18.429	-0.391
110.000	35.000	10.748	0.090
110.000	30.000	12.405	0.128
110.000	25.000	19.876	-0.347
110.000	20.000	20.178	-0.310
110.000	15.000	18.658	-0.115
110.000	10.000	18.502	0.022
110.000	5.000	18.676	-0.056
110.000	0.000	17.871	-0.016
LINE 120			
120.000	0.000	19.839	0.367
120.000	5.000	19.455	0.227
120.000	10.000	19.491	0.183
120.000	15.000	19.967	1.146
120.000	20.000	19.812	2.070
120.000	25.000	18.731	0.591
120.000	30.000	18.878	0.137
120.000	35.000	20.398	0.025
120.000	40.000	22.338	-0.286
120.000	45.000	18.814	-0.205
120.000	50.000	8.184	0.744
120.000	55.000	11.105	0.236
120.000	60.000	22.165	-0.736
120.000	65.000	22.888	-0.611
120.000	70.000	19.876	-0.069
120.000	75.000	18.805	0.036
120.000	80.000	18.640	-0.040
120.000	85.000	19.198	-0.113
120.000	90.000	19.537	0.113
120.000	95.000	19.427	0.718
120.000	100.000	19.656	1.334
120.000	105.000	20.434	0.203
120.000	110.000	20.947	-0.014
120.000	115.000	21.981	0.069
120.000	120.000	24.042	0.198
120.000	125.000	26.925	0.183
120.000	130.000	31.255	0.260
120.000	135.000	31.942	0.172
120.000	140.000	18.310	-0.437
120.000	145.000	3.158	0.420
120.000	150.000	33.590	0.303
120.000	155.000	35.541	0.391
120.000	160.000	36.117	0.567
120.000	165.000	32.473	0.466
120.000	170.000	26.953	0.244
120.000	175.000	19.235	-0.167
120.000	180.000	15.014	0.220
120.000	185.000	16.854	2.899
120.000	190.000	20.379	0.723
120.000	195.000	21.853	-0.227
120.000	200.000	21.377	0.343
120.000	205.000	21.780	0.104
120.000	210.000	23.007	0.023
120.000	215.000	24.682	0.095
120.000	220.000	27.566	0.198
120.000	225.000	30.569	0.299

Line	Station	In-Phase	Quad.
120.000	230.000	33.325	0.428
120.000	235.000	37.115	0.564
120.000	240.000	41.217	0.889
120.000	245.000	43.222	1.532
120.000	250.000	44.064	2.405
120.000	255.000	48.971	2.965
120.000	260.000	40.475	1.183
120.000	265.000	14.794	-2.375
120.000	270.000	4.065	-2.125
120.000	275.000	3.515	0.373
120.000	280.000	28.290	3.391
120.000	285.000	71.658	5.980
120.000	290.000	87.268	6.677
120.000	295.000	69.442	5.282
120.000	300.000	50.299	3.867
LINE 130			
130.000	210.000	21.222	-0.068
130.000	205.000	21.387	-0.112
130.000	200.000	21.267	0.093
130.000	195.000	22.110	-0.121
130.000	190.000	22.696	2.043
130.000	185.000	23.959	1.289
130.000	180.000	26.083	0.446
130.000	175.000	26.440	0.839
130.000	170.000	22.659	0.560
130.000	165.000	15.948	0.192
130.000	160.000	13.330	0.823
130.000	155.000	24.975	1.273
130.000	150.000	43.158	4.387
130.000	145.000	48.870	1.515
130.000	140.000	43.185	1.683
130.000	135.000	23.163	1.183
130.000	130.000	0.860	-0.547
130.000	125.000	8.377	-0.611
130.000	120.000	28.985	0.567
130.000	115.000	34.506	0.791
130.000	110.000	29.635	0.922
130.000	105.000	25.479	0.330
130.000	100.000	24.169	1.334
130.000	95.000	22.247	0.949
130.000	90.000	21.276	-0.073
130.000	85.000	20.315	0.986
130.000	80.000	19.958	1.297
130.000	75.000	19.756	0.178
130.000	70.000	20.544	-0.271
130.000	65.000	22.284	-0.523
130.000	60.000	23.638	-0.277
130.000	55.000	23.364	-0.417
130.000	50.000	5.200	0.554
130.000	45.000	9.915	0.380
130.000	40.000	19.775	0.194
130.000	35.000	26.358	-0.422
130.000	30.000	22.741	-0.152
130.000	25.000	19.528	0.593
130.000	20.000	19.537	0.135
130.000	15.000	19.949	0.485
130.000	10.000	19.949	1.332
130.000	5.000	20.745	0.744
130.000	0.000	20.233	1.006
LINE 140			
140.000	0.000	25.570	1.683
140.000	5.000	25.305	1.420
140.000	10.000	24.234	1.062
140.000	15.000	23.190	0.753
140.000	20.000	21.862	0.459
140.000	25.000	20.370	0.771
140.000	30.000	20.672	0.391
140.000	35.000	20.892	0.384
140.000	40.000	20.883	0.005
140.000	45.000	21.817	-0.110
140.000	50.000	24.682	-0.106
140.000	55.000	24.508	-0.371
140.000	60.000	8.504	0.700
140.000	65.000	2.068	1.091
140.000	70.000	16.369	-0.134
140.000	75.000	28.152	-0.398
140.000	80.000	26.166	0.319
140.000	85.000	23.410	0.069
140.000	90.000	23.217	0.216
140.000	95.000	23.382	0.292
140.000	100.000	24.472	0.334
140.000	105.000	27.402	0.316
140.000	110.000	29.608	0.722
140.000	115.000	34.021	0.742
140.000	120.000	37.289	0.628
140.000	125.000	29.068	-0.185
140.000	130.000	8.368	-1.488
140.000	135.000	1.602	-0.709
140.000	140.000	34.542	1.898
140.000	145.000	58.822	1.984
140.000	150.000	25.506	-0.150
140.000	155.000	22.714	-0.325
140.000	160.000	8.642	-1.052
140.000	165.000	15.426	-0.536
140.000	170.000	32.775	0.286
140.000	175.000	34.817	0.150
140.000	180.000	29.937	-0.099
140.000	185.000	26.706	-0.150
140.000	190.000	23.474	-0.012
LINE 150			
150.000	160.000	34.460	0.523
150.000	155.000	34.423	0.567
150.000	150.000	23.227	-0.001
150.000	145.000	18.081	-0.308
150.000	140.000	11.133	-0.064
150.000	135.000	33.133	1.403
150.000	130.000	67.437	3.222
150.000	125.000	69.561	4.687
150.000	120.000	32.748	2.192
150.000	115.000	-0.769	-1.170
150.000	110.000	7.818	-1.243
150.000	105.000	32.510	0.575
150.000	100.000	33.609	0.700
150.000	95.000	32.098	0.452
150.000	90.000	29.232	0.308
150.000	85.000	27.172	0.157
150.000	80.000	27.118	0.007
150.000	75.000	29.260	-0.519
150.000	70.000	31.732	-0.826
150.000	65.000	24.984	-0.244
150.000	60.000	3.332	1.334
150.000	55.000	4.669	1.098
150.000	50.000	25.543	-0.540
150.000	45.000	27.933	-0.718
150.000	40.000	23.327	-0.205
150.000	35.000	20.800	0.077
150.000	30.000	20.196	0.088
150.000	25.000	20.480	0.422
150.000	20.000	20.773	0.382
150.000	15.000	21.130	0.652
150.000	10.000	22.888	1.049
150.000	5.000	24.582	1.705

Line	Station	In-Phase	Quad.
150.000	0.000	28.527	2.401
LINE 160			
160.000	0.000	22.000	0.430
160.000	5.000	22.439	0.643
160.000	10.000	28.317	2.019
160.000	15.000	30.038	2.307
160.000	20.000	26.403	1.585
160.000	25.000	23.337	1.098
160.000	30.000	21.734	0.565
160.000	35.000	21.258	0.398
160.000	40.000	20.938	0.174
160.000	45.000	20.590	0.040
160.000	50.000	20.910	0.150
160.000	55.000	22.989	0.003
160.000	60.000	27.484	-0.361
160.000	65.000	36.099	-0.760
160.000	70.000	23.831	-0.132
160.000	75.000	-21.130	2.298
160.000	80.000	-14.657	1.706
160.000	85.000	38.370	-0.363
160.000	90.000	48.276	-0.398
160.000	95.000	40.292	0.740
160.000	100.000	40.823	1.824
160.000	105.000	42.013	1.383
160.000	110.000	32.134	-0.214
160.000	115.000	5.850	-1.409
160.000	120.000	9.420	2.085
160.000	125.000	53.704	5.447
160.000	130.000	75.970	5.148
160.000	135.000	39.084	0.712
160.000	140.000	24.874	-0.159
LINE 170			
170.000	125.000	35.541	0.316
170.000	120.000	41.427	1.128
170.000	115.000	65.597	4.764
170.000	110.000	49.749	4.604
170.000	105.000	11.810	0.165
170.000	100.000	36.163	-0.444
170.000	95.000	37.362	-0.240
170.000	90.000	49.127	1.073
170.000	85.000	54.721	0.848
170.000	80.000	37.454	1.043
170.000	75.000	-6.390	2.236
170.000	70.000	-1.702	1.319
170.000	65.000	42.416	-0.459
170.000	60.000	41.427	0.339
170.000	55.000	28.656	1.394
170.000	50.000	23.135	2.037
170.000	45.000	22.045	0.988
170.000	40.000	21.166	1.548
170.000	35.000	20.856	0.665
170.000	30.000	21.295	0.716
170.000	25.000	22.128	1.216
170.000	20.000	23.849	1.264
170.000	15.000	25.543	1.907
170.000	10.000	25.964	2.061
170.000	5.000	21.817	1.104
170.000	0.000	4.632	-4.007
LINE 180			
180.000	0.000	11.728	-1.852
180.000	5.000	6.738	-3.333
180.000	10.000	-0.741	-4.134
180.000	15.000	13.210	-0.718
180.000	20.000	28.106	2.412
180.000	25.000	29.553	2.590
180.000	30.000	25.268	1.797
180.000	35.000	22.824	1.872
180.000	40.000	21.899	1.260
180.000	45.000	21.780	0.907
180.000	50.000	21.697	0.938
180.000	55.000	22.412	0.946
180.000	60.000	24.215	0.784
180.000	65.000	27.429	0.926
180.000	70.000	32.775	0.731
180.000	75.000	39.276	0.810
180.000	80.000	38.854	1.721
180.000	85.000	19.693	3.121
180.000	90.000	24.261	3.366
180.000	95.000	37.839	-1.102
180.000	100.000	26.550	-3.369
180.000	105.000	31.128	0.005
180.000	110.000	33.755	4.602
180.000	115.000	33.535	4.229
180.000	120.000	27.942	-1.273
LINE 190			
190.000	120.000	47.589	1.216
190.000	115.000	47.085	0.773
190.000	110.000	12.515	-1.626
190.000	105.000	-20.361	-1.776
190.000	100.000	65.872	7.691
190.000	95.000	105.889	6.859
190.000	90.000	35.724	-0.328
190.000	85.000	-18.576	-2.873
190.000	80.000	5.987	0.101
190.000	75.000	49.759	2.258
190.000	70.000	50.381	1.995
190.000	65.000	38.809	1.427
190.000	60.000	32.602	1.111
190.000	55.000	27.822	1.163
190.000	50.000	25.341	1.036
190.000	45.000	24.408	1.730
190.000	40.000	23.593	2.491
190.000	35.000	23.089	1.927
190.000	30.000	23.172	1.126
190.000	25.000	24.526	1.543
190.000	20.000	26.422	2.860
190.000	15.000	29.535	3.018
190.000	10.000	31.265	3.246
190.000	5.000	23.464	0.667
190.000	0.000	-2.151	-4.856
LINE 200			
200.000	0.000	-2.975	-5.473
200.000	5.000	-4.449	-5.843
200.000	10.000	8.102	-2.491
200.000	15.000	29.150	2.339
200.000	20.000	36.456	3.669
200.000	25.000	32.583	2.879
200.000	30.000	27.475	2.583
200.000	35.000	26.092	1.765
200.000	40.000	25.698	1.512
200.000	45.000	25.616	1.427
200.000	50.000	26.458	1.537
200.000	55.000	27.667	1.738
200.000	60.000	30.240	2.528
200.000	65.000	33.874	3.033
200.000	70.000	39.056	3.052
200.000	75.000	45.300	3.171
200.000	80.000	42.297	1.306
200.000	85.000	27.759	-1.835
200.000	90.000	35.733	-0.044
200.000	95.000	68.774	8.400
200.000	100.000	51.068	9.133

Line	Station	In-Phase	Quad.
200.000	105.000	37.390	4.589
200.000	110.000	41.610	0.406
200.000	115.000	12.826	-0.060
200.000	120.000	16.213	1.330
200.000	125.000	0.000	0.000
LINE 0: SEAD-4, LEACH FIELD			
0.000	0.000	18.191	-0.477
5.000	0.000	17.669	-0.485
10.000	0.000	17.065	0.463
15.000	0.000	19.015	0.082
20.000	0.000	20.343	-0.483
25.000	0.000	19.372	-0.499
30.000	0.000	18.438	-0.387
35.000	0.000	18.200	-0.161
40.000	0.000	18.402	-0.273
45.000	0.000	18.576	-0.387
50.000	0.000	18.786	-0.371
55.000	0.000	18.832	-0.496
60.000	0.000	18.658	-0.496
65.000	0.000	18.731	-0.470
70.000	0.000	18.850	0.147
75.000	0.000	18.887	0.415
80.000	0.000	18.915	0.047
85.000	0.000	18.795	0.240
90.000	0.000	19.089	0.027
95.000	0.000	19.171	-0.080
100.000	0.000	19.189	-0.521
105.000	0.000	19.079	-0.442
110.000	0.000	19.308	-0.385
115.000	0.000	19.555	-0.395
120.000	0.000	19.427	-0.354
125.000	0.000	19.262	-0.418
130.000	0.000	19.171	0.055
135.000	0.000	19.326	-0.226
140.000	0.000	19.546	-0.475
145.000	0.000	19.500	-0.325
150.000	0.000	19.464	-0.529
155.000	0.000	19.629	-0.516
160.000	0.000	19.345	-0.389
165.000	0.000	19.491	-0.139
170.000	0.000	19.583	-0.018
175.000	0.000	19.711	-0.093
180.000	0.000	19.738	0.020
185.000	0.000	19.399	-0.214
190.000	0.000	19.665	-0.323
195.000	0.000	20.077	3.426
200.000	0.000	18.933	-0.531
205.000	0.000	18.731	-0.418
210.000	0.000	18.685	-0.205
215.000	0.000	19.061	-0.385
220.000	0.000	19.216	-0.310
225.000	0.000	18.786	-0.082
230.000	0.000	18.612	-0.273
235.000	0.000	18.759	-0.391
240.000	0.000	18.585	-0.180
245.000	0.000	18.631	-0.319
250.000	0.000	19.024	-0.248
LINE 10			
250.000	10.000	19.528	-0.481
245.000	10.000	19.638	-0.402
240.000	10.000	19.482	-0.157
235.000	10.000	18.887	-0.012
230.000	10.000	18.786	0.012
225.000	10.000	19.116	0.373
220.000	10.000	18.759	1.142
215.000	10.000	18.685	1.644
210.000	10.000	18.951	0.191
205.000	10.000	19.281	0.780
200.000	10.000	19.683	-0.597
195.000	10.000	19.756	-0.540
190.000	10.000	19.546	0.093
185.000	10.000	19.857	3.858
180.000	10.000	20.151	2.700
175.000	10.000	20.325	-0.393
170.000	10.000	20.654	0.216
165.000	10.000	21.387	3.619
160.000	10.000	21.139	0.769
155.000	10.000	20.498	1.119
150.000	10.000	20.938	-0.521
145.000	10.000	20.846	-0.380
140.000	10.000	20.535	0.275
135.000	10.000	20.645	-0.071
130.000	10.000	20.388	-0.308
125.000	10.000	19.986	0.020
120.000	10.000	20.755	-0.301
115.000	10.000	21.469	0.404
110.000	10.000	21.194	-0.202
105.000	10.000	20.297	-0.244
100.000	10.000	20.452	-0.477
95.000	10.000	20.773	-0.562
90.000	10.000	20.517	-0.049
85.000	10.000	19.079	2.973
80.000	10.000	18.621	2.601
75.000	10.000	19.180	0.931
70.000	10.000	19.354	-0.235
65.000	10.000	19.125	0.001
60.000	10.000	19.235	1.087
55.000	10.000	19.491	-0.271
50.000	10.000	19.674	-0.569
45.000	10.000	19.546	-0.446
40.000	10.000	19.162	-0.382
35.000	10.000	18.850	-0.248
30.000	10.000	18.466	0.203
25.000	10.000	18.411	-0.051
20.000	10.000	18.768	0.703
15.000	10.000	20.242	0.452
10.000	10.000	19.601	1.304
5.000	10.000	14.483	1.795
0.000	10.000	14.199	1.708
LINE 20			
0.000	20.000	17.761	-0.014
5.000	20.000	17.889	0.598
10.000	20.000	15.811	1.844
15.000	20.000	15.078	2.158
20.000	20.000	17.413	1.980
25.000	20.000	18.786	0.802
30.000	20.000	17.303	0.181
35.000	20.000	16.424	0.271
40.000	20.000	16.836	0.091
45.000	20.000	17.532	-0.314
50.000	20.000	17.788	-0.404
55.000	20.000	17.587	-0.409
60.000	20.000	17.239	-0.259
65.000	20.000	17.019	0.802
70.000	20.000	16.763	0.924
75.000	20.000	16.406	0.674
80.000	20.000	16.552	0.424
85.000	20.000	16.955	0.091
90.000	20.000	17.129	-0.231
95.000	20.000	17.404	0.519
100.000	20.000	17.898	-0.069

Line	Station	In-Phase	Quad.
105.000	20.000	17.422	-0.115
110.000	20.000	17.358	0.437
115.000	20.000	17.239	0.389
120.000	20.000	18.136	1.212
125.000	20.000	18.805	0.330
130.000	20.000	18.347	-0.165
135.000	20.000	17.834	1.095
140.000	20.000	18.008	0.192
145.000	20.000	18.741	-0.510
150.000	20.000	18.283	-0.222
155.000	20.000	17.971	-0.334
160.000	20.000	17.669	0.281
165.000	20.000	17.779	0.343
170.000	20.000	17.944	-0.031
175.000	20.000	18.191	-0.249
180.000	20.000	18.045	1.095
185.000	20.000	17.376	0.878
190.000	20.000	17.111	0.543
195.000	20.000	17.340	0.870
200.000	20.000	17.505	-0.293
205.000	20.000	17.587	-0.345
210.000	20.000	17.514	1.350
215.000	20.000	17.312	0.997
220.000	20.000	16.983	1.109
225.000	20.000	16.223	0.687
230.000	20.000	16.443	-0.104
235.000	20.000	16.882	0.802
240.000	20.000	16.827	0.440
245.000	20.000	16.965	-0.143
250.000	20.000	17.422	-0.371
LINE 30			
250.000	30.000	15.738	-0.361
245.000	30.000	15.573	-0.268
240.000	30.000	16.159	0.336
235.000	30.000	16.314	0.003
230.000	30.000	16.552	1.662
225.000	30.000	16.049	1.710
220.000	30.000	15.774	0.068
215.000	30.000	15.783	0.093
210.000	30.000	15.939	-0.011
205.000	30.000	15.994	-0.282
200.000	30.000	15.976	0.358
195.000	30.000	16.168	-0.350
190.000	30.000	15.847	0.268
185.000	30.000	15.582	1.221
180.000	30.000	15.527	0.793
175.000	30.000	16.113	0.117
170.000	30.000	16.570	0.139
165.000	30.000	16.507	0.431
160.000	30.000	16.406	1.931
155.000	30.000	16.260	1.343
150.000	30.000	16.845	-0.020
145.000	30.000	17.157	-0.475
140.000	30.000	17.569	1.786
135.000	30.000	17.038	3.461
130.000	30.000	16.470	0.457
125.000	30.000	16.744	-0.382
120.000	30.000	16.864	-0.056
115.000	30.000	17.101	-0.099
110.000	30.000	17.010	-0.163
105.000	30.000	16.213	0.303
100.000	30.000	16.213	-0.156
95.000	30.000	16.223	0.220
90.000	30.000	16.159	0.812
85.000	30.000	15.792	0.306
80.000	30.000	15.664	-0.176
75.000	30.000	15.618	-0.242
70.000	30.000	15.893	0.676
65.000	30.000	15.536	1.034
60.000	30.000	15.298	0.519
55.000	30.000	15.618	0.011
50.000	30.000	15.710	-0.363
45.000	30.000	15.792	-0.387
40.000	30.000	15.939	-0.352
35.000	30.000	15.865	-0.395
30.000	30.000	15.682	0.110
25.000	30.000	15.664	0.178
20.000	30.000	17.578	2.724
15.000	30.000	-13.540	-32.329
10.000	30.000	-29.498	-32.328
5.000	30.000	-12.213	-32.328
0.000	30.000	19.537	-0.251
LINE 40			
0.000	40.000	15.234	-0.248
5.000	40.000	15.151	0.426
10.000	40.000	14.794	1.100
15.000	40.000	14.712	1.146
20.000	40.000	14.803	2.074
25.000	40.000	14.502	1.734
30.000	40.000	14.620	-0.113
35.000	40.000	14.749	-0.078
40.000	40.000	14.904	0.775
45.000	40.000	15.024	0.395
50.000	40.000	15.252	-0.420
55.000	40.000	15.106	-0.361
60.000	40.000	14.813	0.242
65.000	40.000	14.309	2.186
70.000	40.000	14.099	1.109
75.000	40.000	14.483	2.120
80.000	40.000	14.648	1.186
85.000	40.000	15.408	2.394
90.000	40.000	15.289	1.545
95.000	40.000	15.307	0.093
100.000	40.000	15.573	-0.259
105.000	40.000	15.682	-0.271
110.000	40.000	15.618	1.554
115.000	40.000	15.261	0.275
120.000	40.000	15.756	0.837
125.000	40.000	15.555	1.337
130.000	40.000	15.719	1.012
135.000	40.000	15.985	1.282
140.000	40.000	16.113	1.390
145.000	40.000	15.252	-0.031
150.000	40.000	15.765	-0.404
155.000	40.000	15.710	-0.027
160.000	40.000	15.463	-0.170
165.000	40.000	15.838	2.206
170.000	40.000	15.490	1.277
175.000	40.000	15.225	1.291
180.000	40.000	15.124	1.407
185.000	40.000	14.950	1.036
190.000	40.000	15.298	-0.029
195.000	40.000	15.408	-0.077
200.000	40.000	15.170	-0.202
205.000	40.000	15.307	-0.402
210.000	40.000	15.399	-0.246
215.000	40.000	15.334	0.595
220.000	40.000	15.124	0.196
225.000	40.000	15.115	0.227
230.000	40.000	15.518	0.205
235.000	40.000	15.692	-0.141
240.000	40.000	15.518	-0.354

Line	Station	In-Phase	Quad.
245.000	40.000	15.280	-0.235
250.000	40.000	16.049	-0.466
LINE 50			
250.000	50.000	15.298	-0.452
245.000	50.000	15.390	-0.433
240.000	50.000	15.334	0.407
235.000	50.000	15.417	1.005
230.000	50.000	14.877	0.674
225.000	50.000	14.291	0.387
220.000	50.000	14.813	0.650
215.000	50.000	15.142	0.470
210.000	50.000	14.840	0.531
205.000	50.000	14.840	0.972
200.000	50.000	14.831	-0.360
195.000	50.000	14.941	-0.361
190.000	50.000	14.493	0.731
185.000	50.000	14.566	0.988
180.000	50.000	14.803	1.539
175.000	50.000	14.584	0.852
170.000	50.000	14.456	0.216
165.000	50.000	15.051	0.159
160.000	50.000	15.124	0.915
155.000	50.000	15.115	-0.101
150.000	50.000	15.142	-0.249
145.000	50.000	15.518	-0.349
140.000	50.000	15.454	0.497
135.000	50.000	15.170	0.113
130.000	50.000	15.216	-0.327
125.000	50.000	15.353	0.718
120.000	50.000	15.573	1.672
115.000	50.000	15.573	1.392
110.000	50.000	15.655	1.038
105.000	50.000	15.399	-0.371
100.000	50.000	15.087	-0.317
95.000	50.000	15.207	-0.486
90.000	50.000	15.316	0.667
85.000	50.000	15.207	3.682
80.000	50.000	14.987	3.171
75.000	50.000	14.419	2.006
70.000	50.000	14.126	0.784
65.000	50.000	14.062	0.589
60.000	50.000	14.483	0.762
55.000	50.000	14.190	1.357
50.000	50.000	14.620	0.382
45.000	50.000	14.703	0.227
40.000	50.000	14.886	1.196
35.000	50.000	14.950	1.229
30.000	50.000	15.060	2.800
25.000	50.000	14.511	2.500
20.000	50.000	13.897	0.815
15.000	50.000	14.145	0.615
10.000	50.000	14.373	0.044
5.000	50.000	14.483	0.011
0.000	50.000	14.437	-0.529
LINE 60			
0.000	60.000	14.602	-0.475
5.000	60.000	14.630	0.949
10.000	60.000	14.245	1.932
15.000	60.000	14.154	1.288
20.000	60.000	14.383	1.942
25.000	60.000	14.282	2.627
30.000	60.000	13.641	0.738
35.000	60.000	13.943	0.259
40.000	60.000	14.272	1.438
45.000	60.000	14.117	1.508
50.000	60.000	14.099	0.485
55.000	60.000	14.172	-0.442
60.000	60.000	14.272	0.192
65.000	60.000	14.136	-0.147
70.000	60.000	14.117	0.817
75.000	60.000	14.309	0.970
80.000	60.000	14.300	-0.033
85.000	60.000	14.355	0.861
90.000	60.000	14.291	1.659
95.000	60.000	14.199	0.490
100.000	60.000	14.364	-0.078
105.000	60.000	14.959	-0.259
110.000	60.000	14.996	-0.203
115.000	60.000	15.161	-0.290
120.000	60.000	15.124	-0.345
125.000	60.000	14.941	0.681
130.000	60.000	14.959	0.727
135.000	60.000	14.703	0.226
140.000	60.000	14.547	-0.192
145.000	60.000	14.410	0.088
150.000	60.000	14.538	-0.040
155.000	60.000	14.868	1.174
160.000	60.000	14.373	1.510
165.000	60.000	14.337	-0.075
170.000	60.000	14.547	-0.011
175.000	60.000	14.465	0.558
180.000	60.000	14.520	0.453
185.000	60.000	14.538	0.650
190.000	60.000	14.373	0.745
195.000	60.000	14.493	1.188
200.000	60.000	14.831	-0.214
205.000	60.000	14.822	0.420
210.000	60.000	15.033	0.602
215.000	60.000	14.648	0.260
220.000	60.000	14.446	0.654
225.000	60.000	14.456	0.203
230.000	60.000	14.117	0.696
235.000	60.000	13.980	0.551
240.000	60.000	14.538	0.586
245.000	60.000	14.923	0.918
250.000	60.000	15.417	0.376
LINE 70			
250.000	70.000	15.307	-0.523
245.000	70.000	15.362	-0.222
240.000	70.000	15.417	0.567
235.000	70.000	15.060	0.176
230.000	70.000	14.392	1.679
225.000	70.000	14.025	2.004
220.000	70.000	13.971	0.850
215.000	70.000	14.245	0.248
210.000	70.000	14.630	0.733
205.000	70.000	14.740	-0.102
200.000	70.000	14.895	2.351
195.000	70.000	14.868	2.173
190.000	70.000	14.346	3.083
185.000	70.000	14.300	1.991
180.000	70.000	14.291	2.385
175.000	70.000	14.282	2.092
170.000	70.000	14.437	0.968
165.000	70.000	14.190	1.124
160.000	70.000	14.099	1.269
155.000	70.000	14.401	0.867
150.000	70.000	14.593	1.141
145.000	70.000	14.401	0.509
140.000	70.000	14.383	1.403
135.000	70.000	14.016	1.277
130.000	70.000	14.181	1.115

Line	Station	In-Phase	Quad.
125.000	70.000	14.263	0.474
120.000	70.000	14.474	0.698
115.000	70.000	14.730	-0.115
110.000	70.000	15.051	0.538
105.000	70.000	14.840	1.988
100.000	70.000	14.566	-0.165
95.000	70.000	14.446	0.966
90.000	70.000	14.145	1.295
85.000	70.000	13.943	0.290
80.000	70.000	13.962	0.556
75.000	70.000	13.769	1.190
70.000	70.000	14.025	1.343
65.000	70.000	13.824	0.464
60.000	70.000	13.605	0.492
55.000	70.000	13.861	-0.029
50.000	70.000	14.145	-0.384
45.000	70.000	14.483	-0.413
40.000	70.000	14.227	0.881
35.000	70.000	14.602	1.120
30.000	70.000	14.721	1.756
25.000	70.000	14.337	1.545
20.000	70.000	14.236	2.963
15.000	70.000	14.364	1.198
10.000	70.000	13.897	0.126
5.000	70.000	13.906	0.826
0.000	70.000	14.474	-0.409
LINE 80			
0.000	80.000	14.016	-0.415
5.000	80.000	14.044	-0.385
10.000	80.000	13.568	0.700
15.000	80.000	14.117	4.496
20.000	80.000	13.815	1.111
25.000	80.000	13.714	0.602
30.000	80.000	14.218	1.481
35.000	80.000	14.639	0.655
40.000	80.000	14.428	0.823
45.000	80.000	14.053	0.016
50.000	80.000	14.373	-0.279
55.000	80.000	14.593	1.811
60.000	80.000	14.556	1.745
65.000	80.000	14.300	-0.312
70.000	80.000	14.117	0.147
75.000	80.000	14.126	0.898
80.000	80.000	14.419	1.060
85.000	80.000	14.016	0.920
90.000	80.000	13.788	0.169
95.000	80.000	14.035	-0.183
100.000	80.000	14.108	0.769
105.000	80.000	14.428	0.299
110.000	80.000	15.024	1.934
115.000	80.000	15.124	0.797
120.000	80.000	14.712	-0.306
125.000	80.000	14.410	0.205
130.000	80.000	14.291	0.409
135.000	80.000	14.538	0.830
140.000	80.000	14.328	0.268
145.000	80.000	14.126	-0.229
150.000	80.000	14.502	0.494
155.000	80.000	14.611	-0.461
160.000	80.000	14.758	0.613
165.000	80.000	14.373	0.847
170.000	80.000	14.016	2.181
175.000	80.000	14.053	1.299
180.000	80.000	14.639	-0.139
185.000	80.000	14.667	0.509
190.000	80.000	14.721	0.540
195.000	80.000	14.868	-0.049
200.000	80.000	15.151	-0.194
205.000	80.000	15.252	3.281
210.000	80.000	15.454	3.138
215.000	80.000	14.749	0.033
220.000	80.000	13.861	-0.038
225.000	80.000	13.870	0.913
230.000	80.000	14.794	0.369
235.000	80.000	15.298	0.595
240.000	80.000	15.481	-0.060
245.000	80.000	14.895	1.503
250.000	80.000	14.630	-0.494
LINE 90			
250.000	90.000	14.053	-0.404
245.000	90.000	13.934	-0.420
240.000	90.000	14.053	0.788
235.000	90.000	14.483	0.325
230.000	90.000	14.392	1.400
225.000	90.000	14.648	3.053
220.000	90.000	15.207	2.761
215.000	90.000	15.124	1.209
210.000	90.000	14.419	1.049
205.000	90.000	13.806	0.534
200.000	90.000	13.906	0.093
195.000	90.000	14.758	-0.374
190.000	90.000	14.859	0.108
185.000	90.000	14.703	1.361
180.000	90.000	14.446	2.239
175.000	90.000	14.502	1.431
170.000	90.000	14.355	1.583
165.000	90.000	13.925	1.411
160.000	90.000	13.870	1.662
155.000	90.000	14.053	0.468
150.000	90.000	14.474	1.361
145.000	90.000	14.291	0.554
140.000	90.000	14.254	0.646
135.000	90.000	13.989	1.708
130.000	90.000	14.016	0.145
125.000	90.000	14.410	-0.191
120.000	90.000	14.667	-0.130
115.000	90.000	14.117	0.670
110.000	90.000	13.915	0.948
105.000	90.000	14.749	0.020
100.000	90.000	14.813	-0.534
95.000	90.000	14.694	-0.132
90.000	90.000	14.575	1.220
85.000	90.000	14.163	0.639
80.000	90.000	14.456	0.902
75.000	90.000	14.740	0.648
70.000	90.000	14.483	0.946
65.000	90.000	14.465	1.196
60.000	90.000	14.401	0.202
55.000	90.000	14.245	-0.143
50.000	90.000	14.355	-0.352
45.000	90.000	14.282	-0.124
40.000	90.000	13.879	1.808
35.000	90.000	13.934	1.297
30.000	90.000	13.897	0.582
25.000	90.000	14.145	2.230
20.000	90.000	14.620	1.754
15.000	90.000	14.291	0.740
10.000	90.000	14.373	1.028
5.000	90.000	14.282	0.255
0.000	90.000	14.456	-0.222
LINE 100			
0.000	100.000	14.154	-0.479

Line	Station	In-Phase	Quad.
5.000	100.000	14.291	-0.242
10.000	100.000	14.263	0.437
15.000	100.000	14.474	0.185
20.000	100.000	14.904	2.370
25.000	100.000	14.794	3.459
30.000	100.000	14.575	1.023
35.000	100.000	14.428	1.738
40.000	100.000	14.272	1.344
45.000	100.000	14.218	1.109
50.000	100.000	14.676	-0.139
55.000	100.000	14.446	-0.115
60.000	100.000	14.035	0.679
65.000	100.000	13.989	1.023
70.000	100.000	14.272	0.352
75.000	100.000	14.154	0.361
80.000	100.000	13.989	1.260
85.000	100.000	13.888	0.916
90.000	100.000	14.172	-0.137
95.000	100.000	14.749	-0.273
100.000	100.000	14.721	-0.396
105.000	100.000	14.886	-0.271
110.000	100.000	14.493	1.107
115.000	100.000	13.870	1.554
120.000	100.000	14.089	1.247
125.000	100.000	14.493	0.226
130.000	100.000	14.502	-0.025
135.000	100.000	14.437	-0.110
140.000	100.000	14.145	0.152
145.000	100.000	14.199	1.014
150.000	100.000	14.776	-0.227
155.000	100.000	14.767	-0.211
160.000	100.000	14.584	0.707
165.000	100.000	14.209	0.948
170.000	100.000	13.906	1.098
175.000	100.000	14.209	0.288
180.000	100.000	14.667	0.659
185.000	100.000	14.868	0.881
190.000	100.000	14.648	0.547
195.000	100.000	14.218	0.180
200.000	100.000	14.667	-0.415
205.000	100.000	14.923	-0.338
210.000	100.000	14.703	-0.056
215.000	100.000	15.133	-0.088
220.000	100.000	15.261	0.347
225.000	100.000	14.667	0.025
230.000	100.000	14.840	0.453
235.000	100.000	14.593	1.438
240.000	100.000	14.630	0.014
245.000	100.000	15.097	0.338
250.000	100.000	14.776	-0.270
LINE 110			
100.000	110.000	14.648	-0.518
95.000	110.000	14.767	-0.532
90.000	110.000	14.392	-0.056
85.000	110.000	14.272	0.093
80.000	110.000	14.199	-0.214
75.000	110.000	14.053	-0.233
70.000	110.000	14.209	0.038
65.000	110.000	14.328	0.049
60.000	110.000	14.089	0.130
55.000	110.000	14.080	-0.312
50.000	110.000	14.346	-0.374
45.000	110.000	14.410	-0.440
40.000	110.000	14.474	0.595
35.000	110.000	14.337	0.126
30.000	110.000	13.980	-0.248
25.000	110.000	13.842	0.595
20.000	110.000	14.263	-0.099
15.000	110.000	14.767	0.365
10.000	110.000	14.694	0.270
5.000	110.000	14.593	0.374
0.000	110.000	14.474	-0.521
LINE 120			
0.000	120.000	14.053	-0.369
5.000	120.000	13.906	-0.268
10.000	120.000	13.980	0.780
15.000	120.000	13.934	0.154
20.000	120.000	14.428	1.251
25.000	120.000	14.474	1.780
30.000	120.000	13.833	0.068
35.000	120.000	13.769	-0.152
40.000	120.000	14.145	0.824
45.000	120.000	14.245	0.398
50.000	120.000	14.529	0.007
55.000	120.000	14.319	-0.145
60.000	120.000	14.117	1.041
65.000	120.000	14.007	0.119
70.000	120.000	14.035	-0.124
75.000	120.000	14.254	1.023
80.000	120.000	14.346	0.305
85.000	120.000	14.566	0.373
90.000	120.000	14.685	1.141
95.000	120.000	14.502	0.020
100.000	120.000	14.813	-0.222
LINE 130			
100.000	130.000	14.712	-0.534
95.000	130.000	14.648	-0.299
90.000	130.000	14.263	-0.317
85.000	130.000	13.980	1.006
80.000	130.000	13.760	1.525
75.000	130.000	14.181	0.519
70.000	130.000	14.511	-0.045
65.000	130.000	14.328	0.604
60.000	130.000	14.493	0.652
55.000	130.000	14.419	-0.249
50.000	130.000	14.749	-0.373
45.000	130.000	14.392	-0.316
40.000	130.000	14.172	0.430
35.000	130.000	13.998	2.096
30.000	130.000	13.440	1.256
25.000	130.000	13.732	1.098
20.000	130.000	14.291	0.339
15.000	130.000	14.291	0.733
10.000	130.000	13.971	0.635
5.000	130.000	14.089	0.821
0.000	130.000	14.456	-0.273
LINE 140			
0.000	140.000	13.732	-0.442
5.000	140.000	13.641	-0.497
10.000	140.000	14.117	0.328
15.000	140.000	14.813	0.988
20.000	140.000	15.033	1.471
25.000	140.000	14.667	1.589
30.000	140.000	14.254	0.312
35.000	140.000	14.364	-0.347
40.000	140.000	14.373	0.584
45.000	140.000	14.172	0.023
50.000	140.000	14.493	-0.284
55.000	140.000	14.520	-0.452
60.000	140.000	14.822	0.562
65.000	140.000	14.410	0.084
70.000	140.000	14.300	-0.169

Line	Station	In-Phase	Quad.
75.000	140.000	14.694	-0.068
80.000	140.000	14.740	0.000
85.000	140.000	14.831	0.915
90.000	140.000	14.538	0.082
95.000	140.000	15.051	-0.450
LINE 150			
95.000	150.000	14.721	-0.547
90.000	150.000	14.794	-0.534
85.000	150.000	14.667	0.398
80.000	150.000	14.547	0.365
75.000	150.000	14.904	0.547
70.000	150.000	15.087	0.367
65.000	150.000	14.676	-0.176
60.000	150.000	14.611	-0.475
55.000	150.000	15.344	0.960
50.000	150.000	14.383	-0.349
45.000	150.000	14.419	-0.343
40.000	150.000	13.723	0.196
35.000	150.000	13.870	-0.222
30.000	150.000	14.474	-0.104
25.000	150.000	14.712	0.753
20.000	150.000	14.319	0.771
15.000	150.000	14.099	0.073
10.000	150.000	14.300	0.060
5.000	150.000	14.428	-0.099
0.000	150.000	14.145	-0.486
LINE 160			
0.000	160.000	14.163	-0.418
5.000	160.000	14.126	-0.413
10.000	160.000	14.419	-0.196
15.000	160.000	14.190	0.365
20.000	160.000	14.392	0.744
25.000	160.000	14.263	1.122
30.000	160.000	14.218	1.510
35.000	160.000	13.980	1.161
40.000	160.000	13.678	0.799
45.000	160.000	14.410	0.850
50.000	160.000	14.437	0.126
55.000	160.000	14.794	-0.352
60.000	160.000	14.630	-0.231
65.000	160.000	14.446	0.170
70.000	160.000	14.566	-0.292
75.000	160.000	15.069	-0.086
80.000	160.000	15.417	0.121
85.000	160.000	15.051	0.435
90.000	160.000	15.170	0.576
95.000	160.000	14.730	-0.534
LINE 170			
95.000	170.000	14.767	-0.556
90.000	170.000	14.749	-0.510
85.000	170.000	14.648	0.689
80.000	170.000	14.446	-0.045
75.000	170.000	14.667	-0.165
70.000	170.000	14.776	0.016
65.000	170.000	15.124	2.010
60.000	170.000	14.493	0.384
55.000	170.000	14.181	-0.354
50.000	170.000	14.575	0.518
45.000	170.000	14.437	-0.380
40.000	170.000	14.309	1.401
35.000	170.000	14.309	0.701
30.000	170.000	14.300	0.126
25.000	170.000	14.117	0.442
20.000	170.000	13.586	0.255
15.000	170.000	13.696	0.209
10.000	170.000	14.099	-0.253
5.000	170.000	14.218	-0.286
0.000	170.000	14.456	-0.490
LINE 180			
0.000	180.000	14.630	-0.512
5.000	180.000	14.822	0.863
10.000	180.000	14.401	0.257
15.000	180.000	14.392	1.633
20.000	180.000	14.373	1.299
25.000	180.000	14.667	0.970
30.000	180.000	14.767	0.657
35.000	180.000	14.089	0.308
40.000	180.000	14.364	0.786
45.000	180.000	15.243	0.929
50.000	180.000	14.895	0.600
55.000	180.000	15.234	1.302
60.000	180.000	15.024	1.681
65.000	180.000	14.108	0.735
70.000	180.000	14.511	0.830
75.000	180.000	14.740	-0.139
80.000	180.000	14.291	0.916
85.000	180.000	13.943	-0.099
90.000	180.000	14.291	-0.339
95.000	180.000	13.989	-0.281
LINE 190			
95.000	190.000	14.272	0.022
90.000	190.000	14.209	0.259
85.000	190.000	14.044	0.854
80.000	190.000	14.209	0.628
75.000	190.000	14.254	0.132
70.000	190.000	14.648	-0.203
65.000	190.000	14.511	1.526
60.000	190.000	14.300	1.684
55.000	190.000	14.914	0.942
50.000	190.000	14.977	-0.192
45.000	190.000	14.575	-0.203
40.000	190.000	14.950	0.382
35.000	190.000	15.381	0.597
30.000	190.000	14.996	0.488
25.000	190.000	14.859	0.613
20.000	190.000	14.859	-0.073
15.000	190.000	14.740	0.198
10.000	190.000	14.959	0.571
5.000	190.000	15.216	0.196
0.000	190.000	15.234	-0.371
LINE 200			
0.000	200.000	14.373	-0.418
5.000	200.000	14.108	-0.349
10.000	200.000	14.337	0.823
15.000	200.000	14.291	0.029
20.000	200.000	14.950	1.319
25.000	200.000	15.106	2.394
30.000	200.000	15.097	1.385
35.000	200.000	14.740	0.117
40.000	200.000	14.529	0.824
45.000	200.000	14.639	0.001
50.000	200.000	15.243	0.350
55.000	200.000	15.463	1.392
60.000	200.000	15.499	0.768
65.000	200.000	15.225	0.826
70.000	200.000	15.024	1.131
75.000	200.000	15.261	-0.045
80.000	200.000	15.600	-0.479
85.000	200.000	15.472	0.187
90.000	200.000	14.493	-0.345
95.000	200.000	14.456	0.395
100.000	200.000	0.000	0.000

Line	Station	In-Phase	Quad.
LINE 0: WASTEWATER DRAINAGE DITCH			
0.000	300.000	35.010	3.924
0.000	295.000	34.277	3.625
0.000	290.000	27.923	1.703
0.000	285.000	17.221	-0.843
0.000	280.000	6.180	-3.112
0.000	275.000	11.590	-1.694
0.000	270.000	24.957	0.926
0.000	265.000	31.704	1.940
0.000	260.000	31.567	1.927
0.000	255.000	28.152	1.662
0.000	250.000	23.611	0.665
0.000	245.000	23.190	0.536
0.000	240.000	22.659	0.457
0.000	235.000	21.523	0.268
0.000	230.000	20.590	0.259
0.000	225.000	20.068	0.183
0.000	220.000	19.683	-0.020
0.000	215.000	19.427	-0.152
0.000	210.000	19.216	-0.134
0.000	205.000	18.969	-0.126
0.000	200.000	18.640	-0.189
0.000	195.000	19.024	-0.198
0.000	190.000	19.207	-0.238
0.000	185.000	19.052	-0.253
0.000	180.000	18.612	-0.266
0.000	175.000	18.750	-0.244
0.000	170.000	19.857	-0.251
0.000	165.000	20.123	-0.205
0.000	160.000	19.711	-0.090
0.000	155.000	19.509	-0.036
0.000	150.000	19.418	-0.174
0.000	145.000	19.198	-0.310
0.000	140.000	18.539	-0.290
0.000	135.000	18.274	-0.288
0.000	130.000	18.915	-0.299
0.000	125.000	18.905	-0.306
0.000	120.000	19.061	-0.090
0.000	115.000	18.658	-0.038
0.000	110.000	18.915	-0.325
0.000	105.000	19.555	-0.288
0.000	100.000	20.260	-0.018
0.000	95.000	22.531	0.659
0.000	90.000	25.268	-0.367
0.000	85.000	7.168	-18.719
0.000	80.000	4.037	-3.748
0.000	75.000	3.488	-15.919
0.000	70.000	15.097	-9.115
0.000	65.000	21.240	1.378
0.000	60.000	19.116	0.369
0.000	55.000	18.384	-0.507
0.000	50.000	19.042	-0.400
0.000	45.000	18.878	-0.418
0.000	40.000	19.345	-0.531
0.000	35.000	19.162	-0.365
0.000	30.000	18.722	-0.382
0.000	25.000	18.741	-0.407
0.000	20.000	18.878	-0.409
0.000	15.000	18.768	-0.430
0.000	10.000	18.493	-0.440
0.000	5.000	18.567	-0.365
0.000	0.000	19.006	-0.413
LINE 100			
100.000	0.000	17.559	-0.501
100.000	5.000	17.358	-0.558
100.000	10.000	17.028	-0.527
100.000	15.000	16.791	-0.507
100.000	20.000	16.983	-0.431
100.000	25.000	16.946	-0.501
100.000	30.000	16.827	-0.450
100.000	35.000	16.662	-0.481
100.000	40.000	16.516	-0.446
100.000	45.000	17.019	-0.407
100.000	50.000	17.651	-0.356
100.000	55.000	18.264	-0.334
100.000	60.000	18.036	-0.406
100.000	65.000	17.340	-0.461
100.000	70.000	16.690	-0.464
100.000	75.000	16.864	-0.426
100.000	80.000	17.019	-0.459
100.000	85.000	17.038	-0.448
100.000	90.000	17.660	-0.422
100.000	95.000	18.054	-0.437
100.000	100.000	16.241	-0.477
100.000	105.000	16.086	-0.442
100.000	110.000	15.756	-0.424
100.000	115.000	16.076	-0.356
100.000	120.000	16.598	-0.350
100.000	125.000	16.854	-0.398
100.000	130.000	16.415	-0.325
100.000	135.000	15.628	-0.264
100.000	140.000	15.353	-0.277
100.000	145.000	15.692	-0.266
100.000	150.000	16.104	-0.404
100.000	155.000	16.570	-0.407
100.000	160.000	16.589	-0.380
100.000	165.000	16.113	-0.422
100.000	170.000	15.976	-0.292
100.000	175.000	16.204	-0.422
100.000	180.000	16.323	-0.389
100.000	185.000	16.186	-0.349
100.000	190.000	15.527	-0.400
100.000	195.000	15.490	-0.374
100.000	200.000	15.756	-0.354
100.000	205.000	15.802	-0.395
100.000	210.000	15.820	-0.407
100.000	215.000	15.747	-0.365
100.000	220.000	15.719	-0.373
100.000	225.000	15.820	-0.312
100.000	230.000	15.765	-0.317
100.000	235.000	15.719	-0.361
100.000	240.000	15.856	-0.361
100.000	245.000	16.122	-0.442
100.000	250.000	15.729	-0.382
100.000	255.000	15.042	-0.453
100.000	260.000	15.170	-0.330
100.000	265.000	15.472	-0.273
100.000	270.000	16.030	-0.286
100.000	275.000	16.434	-0.321
100.000	280.000	16.470	-0.264
100.000	285.000	16.278	-0.310
100.000	290.000	16.296	-0.227
100.000	295.000	16.396	-0.222
100.000	300.000	16.635	0.172
LINE 200			
200.000	300.000	13.760	-0.497
200.000	295.000	13.788	-0.527
200.000	290.000	14.300	-0.367
200.000	285.000	14.602	-0.400
200.000	280.000	14.272	-0.376
200.000	275.000	14.236	-0.384
200.000	270.000	14.263	-0.418

Line	Station	In-Phase	Quad.
200.000	265.000	14.245	-0.343
200.000	260.000	14.199	-0.246
200.000	255.000	14.566	-0.338
200.000	250.000	14.236	-0.273
200.000	245.000	13.678	-0.306
200.000	240.000	13.513	-0.319
200.000	235.000	13.614	-0.314
200.000	230.000	13.741	-0.354
200.000	225.000	13.879	-0.312
200.000	220.000	14.080	-0.385
200.000	215.000	14.016	-0.463
200.000	210.000	13.962	-0.450
200.000	205.000	14.071	-0.437
200.000	200.000	14.154	-0.196
200.000	195.000	14.181	-0.218
200.000	190.000	14.272	-0.384
200.000	185.000	14.291	-0.474
200.000	180.000	14.373	-0.380
200.000	175.000	14.831	-0.382
200.000	170.000	14.996	-0.284
200.000	165.000	15.408	-0.253
200.000	160.000	15.087	-0.464
200.000	155.000	14.602	0.220
200.000	150.000	14.071	-0.169
200.000	145.000	14.364	-0.518
200.000	140.000	14.685	-0.422
200.000	135.000	14.895	-0.374
200.000	130.000	15.087	-0.453
200.000	125.000	14.950	-0.406
200.000	120.000	14.446	-0.442
200.000	115.000	13.659	-0.475
200.000	110.000	13.623	-0.466
200.000	105.000	13.806	-0.352
200.000	100.000	13.915	0.341
200.000	95.000	14.163	-0.172
200.000	90.000	14.346	-0.393
200.000	85.000	14.602	-0.435
200.000	80.000	15.033	-0.431
200.000	75.000	15.637	-0.038
200.000	70.000	15.865	0.157
200.000	65.000	16.241	-0.227
200.000	60.000	16.296	-0.378
200.000	55.000	16.067	-0.385
200.000	50.000	16.269	-0.152
200.000	45.000	16.845	-0.413
200.000	40.000	17.120	-0.431
200.000	35.000	17.367	-0.409
200.000	30.000	17.322	-0.444
200.000	25.000	17.166	-0.527
200.000	20.000	16.626	-0.499
200.000	15.000	16.653	-0.446
200.000	10.000	17.532	-0.387
200.000	5.000	17.459	-0.345
200.000	0.000	16.278	-0.455
LINE 300			
300.000	0.000	16.744	-0.510
300.000	5.000	16.726	-0.483
300.000	10.000	16.690	-0.463
300.000	15.000	16.690	-0.398
300.000	20.000	16.772	-0.339
300.000	25.000	16.717	-0.290
300.000	30.000	16.708	-0.406
300.000	35.000	16.552	-0.420
300.000	40.000	16.744	-0.466
300.000	45.000	16.735	-0.494
300.000	50.000	16.232	-0.496
300.000	55.000	15.884	-0.464
300.000	60.000	15.792	-0.461
300.000	65.000	15.811	-0.424
300.000	70.000	15.738	-0.444
300.000	75.000	15.838	-0.433
300.000	80.000	15.692	-0.424
300.000	85.000	15.051	-0.413
300.000	90.000	14.493	-0.273
300.000	95.000	14.611	-0.244
300.000	100.000	14.859	0.055
300.000	105.000	14.465	-0.068
300.000	110.000	14.291	-0.369
300.000	115.000	14.392	-0.374
300.000	120.000	14.703	-0.420
300.000	125.000	15.097	-0.472
300.000	130.000	15.179	-0.426
300.000	135.000	15.087	-0.488
300.000	140.000	14.694	-0.468
300.000	145.000	14.236	-0.229
300.000	150.000	14.383	-0.319
300.000	155.000	14.850	-0.354
300.000	160.000	14.401	-0.134
300.000	165.000	13.558	-0.332
300.000	170.000	13.732	-0.413
300.000	175.000	13.971	-0.196
300.000	180.000	14.346	-0.308
300.000	185.000	14.493	-0.391
300.000	190.000	14.566	-0.382
300.000	195.000	14.758	-0.325
300.000	200.000	14.657	-0.327
300.000	205.000	14.602	-0.284
300.000	210.000	14.428	-0.236
300.000	215.000	14.328	-0.246
300.000	220.000	14.181	-0.288
300.000	225.000	14.502	-0.323
300.000	230.000	14.803	-0.305
300.000	235.000	14.730	-0.367
300.000	240.000	14.831	-0.350
300.000	245.000	14.895	-0.264
300.000	250.000	15.097	-0.417
300.000	255.000	15.142	-0.418
300.000	260.000	15.060	-0.450
300.000	265.000	15.261	-0.415
300.000	270.000	15.518	-0.430
300.000	275.000	15.573	-0.463
300.000	280.000	15.618	-0.488
300.000	285.000	15.618	-0.430
300.000	290.000	15.564	-0.468
300.000	295.000	15.682	-0.501
300.000	300.000	15.435	-0.450
LINE 400			
400.000	250.000	14.428	-0.439
400.000	245.000	14.703	-0.428
400.000	240.000	14.895	-0.433
400.000	235.000	14.977	-0.440
400.000	230.000	15.124	-0.486
400.000	225.000	15.307	-0.450
400.000	220.000	15.390	-0.404
400.000	215.000	15.481	-0.448
400.000	210.000	15.536	-0.442
400.000	205.000	15.555	-0.464
400.000	200.000	15.600	-0.554
400.000	195.000	15.664	-0.521
400.000	190.000	15.719	-0.497
400.000	185.000	15.847	-0.523
400.000	180.000	16.067	-0.547

Line	Station	In-Phase	Quad.
400.000	175.000	16.250	-0.474
400.000	170.000	16.186	-0.481
400.000	165.000	15.792	-0.483
400.000	160.000	15.865	-0.497
400.000	155.000	16.086	-0.534
400.000	150.000	15.948	-0.481
400.000	145.000	16.113	-0.424
400.000	140.000	16.653	-0.218
400.000	135.000	16.781	-0.040
400.000	130.000	16.168	-0.415
400.000	125.000	15.618	-0.494
400.000	120.000	15.325	-0.483
400.000	115.000	15.325	-0.483
400.000	110.000	15.454	-0.488
400.000	105.000	15.499	-0.117
400.000	100.000	15.518	-0.033
400.000	95.000	15.344	-0.288
400.000	90.000	15.170	-0.288
400.000	85.000	15.124	-0.056
400.000	80.000	14.630	-0.053
400.000	75.000	14.859	-0.435
400.000	70.000	14.932	-0.442
400.000	65.000	15.142	-0.428
400.000	60.000	14.996	-0.404
400.000	55.000	14.950	-0.404
400.000	50.000	14.941	-0.369
400.000	45.000	14.831	0.573
400.000	40.000	14.639	0.514
400.000	35.000	14.712	0.593
400.000	30.000	14.556	0.022
400.000	25.000	14.364	-0.308
400.000	20.000	14.172	-0.271
400.000	15.000	14.044	-0.286
400.000	10.000	14.080	-0.374
400.000	5.000	14.254	-0.345
400.000	0.000	14.657	-0.328
LINE 500			
500.000	0.000	14.639	-0.455
500.000	5.000	14.529	-0.442
500.000	10.000	14.272	-0.463
500.000	15.000	14.282	-0.437
500.000	20.000	14.428	-0.328
500.000	25.000	14.639	-0.402
500.000	30.000	14.383	-0.496
500.000	35.000	14.456	-0.496
500.000	40.000	14.758	-0.422
500.000	45.000	14.950	-0.464
500.000	50.000	15.252	-0.461
500.000	55.000	15.216	-0.464
500.000	60.000	15.115	-0.382
500.000	65.000	14.803	-0.459
500.000	70.000	14.968	-0.426
500.000	75.000	15.307	-0.433
500.000	80.000	15.618	-0.474
500.000	85.000	15.518	-0.426
500.000	90.000	15.271	-0.554
500.000	95.000	15.261	-0.534
500.000	100.000	15.106	-0.468
500.000	105.000	15.207	-0.519
500.000	110.000	14.950	-0.310
500.000	115.000	14.914	-0.479
500.000	120.000	15.014	-0.452
500.000	125.000	15.087	-0.514
500.000	130.000	15.325	-0.483
500.000	135.000	15.710	-0.540
500.000	140.000	15.921	-0.553
500.000	145.000	15.976	-0.494
500.000	150.000	15.225	-0.534
500.000	155.000	15.381	-0.591
500.000	160.000	15.573	-0.477
500.000	165.000	15.802	-0.406
500.000	170.000	15.729	-0.512
500.000	175.000	15.802	-0.542
500.000	180.000	15.802	-0.356
500.000	185.000	15.628	-0.339
500.000	190.000	14.794	-0.312
500.000	195.000	14.502	-0.413
500.000	200.000	15.033	-0.378
500.000	205.000	15.289	-0.486
500.000	210.000	14.831	-0.472
500.000	215.000	14.502	-0.321
500.000	220.000	14.309	-0.297
500.000	225.000	14.483	0.749
500.000	230.000	13.806	0.532
500.000	235.000	13.687	-0.380
500.000	240.000	14.071	-0.101
500.000	245.000	14.154	-0.075
500.000	250.000	14.062	-0.305
LINE 0: SEAD-24			
0.000	0.000	17.752	1.012
0.000	5.000	17.651	0.665
0.000	10.000	17.376	0.711
0.000	15.000	16.965	2.098
0.000	20.000	16.598	0.915
0.000	25.000	16.241	1.152
0.000	30.000	16.113	1.501
0.000	35.000	16.818	2.862
0.000	40.000	16.561	1.651
0.000	45.000	16.186	0.376
0.000	50.000	16.818	0.490
0.000	55.000	16.909	0.413
0.000	60.000	16.873	0.532
0.000	65.000	16.635	1.367
0.000	70.000	16.305	1.607
0.000	75.000	15.646	1.126
0.000	80.000	15.820	1.039
0.000	85.000	16.122	0.863
0.000	90.000	15.966	0.701
0.000	95.000	15.508	0.830
0.000	100.000	14.950	0.705
0.000	105.000	15.490	0.415
0.000	110.000	15.903	0.558
0.000	115.000	15.994	0.869
0.000	120.000	15.921	1.286
0.000	125.000	15.673	1.238
0.000	130.000	15.912	0.859
0.000	135.000	15.966	0.797
0.000	140.000	16.021	0.709
0.000	145.000	15.774	0.696
0.000	150.000	16.296	0.606
0.000	155.000	16.699	0.483
0.000	160.000	16.461	0.417
0.000	165.000	16.525	0.446
0.000	170.000	16.671	0.672
0.000	175.000	16.744	1.416
0.000	180.000	16.351	1.813
0.000	185.000	16.333	0.757
0.000	190.000	16.443	0.663
0.000	195.000	16.617	0.611
0.000	200.000	16.589	0.668
0.000	205.000	16.763	0.769

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
0.000	210.000	16.598	1.130	10.000	370.000	17.706	0.567
0.000	215.000	16.149	1.356	10.000	365.000	17.953	0.538
0.000	220.000	16.269	0.692	10.000	360.000	17.953	0.518
0.000	225.000	16.470	0.558	10.000	355.000	17.724	0.497
0.000	230.000	16.287	0.575	10.000	350.000	17.294	0.424
0.000	235.000	16.095	0.466	10.000	345.000	16.992	0.534
0.000	240.000	15.976	0.663	10.000	340.000	17.129	0.516
0.000	245.000	15.985	0.716	10.000	335.000	17.541	0.497
0.000	250.000	16.168	0.470	10.000	330.000	17.743	0.430
0.000	255.000	16.305	0.823	10.000	325.000	17.596	0.470
0.000	260.000	15.499	1.223	10.000	320.000	17.706	0.389
0.000	265.000	16.131	0.905	10.000	315.000	17.679	0.354
0.000	270.000	16.131	0.578	10.000	310.000	17.459	0.396
0.000	275.000	16.681	0.483	10.000	305.000	17.111	0.727
0.000	280.000	17.083	0.461	10.000	300.000	17.788	0.602
0.000	285.000	16.882	0.523	10.000	295.000	17.990	0.532
0.000	290.000	16.809	0.509	10.000	290.000	18.228	0.486
0.000	295.000	17.111	0.411	10.000	285.000	18.063	0.554
0.000	300.000	17.614	0.422	10.000	280.000	17.376	0.619
0.000	305.000	17.871	1.797	10.000	275.000	17.468	0.564
0.000	310.000	17.202	1.504	10.000	270.000	18.118	0.488
0.000	315.000	17.221	0.654	10.000	265.000	17.806	0.468
0.000	320.000	18.210	0.518	10.000	260.000	16.983	0.558
0.000	325.000	18.960	0.626	10.000	255.000	16.626	0.824
0.000	330.000	18.951	0.564	10.000	250.000	16.708	0.452
0.000	335.000	18.255	0.521	10.000	245.000	16.735	0.418
0.000	340.000	18.008	0.521	10.000	240.000	16.369	0.523
0.000	345.000	17.999	0.457	10.000	235.000	17.010	0.481
0.000	350.000	17.129	0.442	10.000	230.000	17.047	0.455
0.000	355.000	17.422	0.430	10.000	225.000	16.589	0.711
0.000	360.000	17.092	0.463	10.000	220.000	16.708	0.536
0.000	365.000	17.074	0.450	10.000	215.000	16.543	0.391
0.000	370.000	16.543	0.485	10.000	210.000	16.580	0.328
0.000	375.000	16.644	0.549	10.000	205.000	16.873	0.527
0.000	380.000	16.653	0.652	10.000	200.000	17.477	0.424
0.000	385.000	16.662	0.604	10.000	195.000	17.523	0.450
0.000	390.000	16.818	0.760	10.000	190.000	17.505	0.420
0.000	395.000	16.269	1.299	10.000	185.000	17.001	0.486
0.000	400.000	15.792	0.992	10.000	180.000	17.001	0.711
0.000	405.000	16.039	0.626	10.000	175.000	16.873	0.854
0.000	410.000	16.095	0.896	10.000	170.000	17.275	0.597
0.000	415.000	16.076	1.102	10.000	165.000	17.157	0.694
0.000	420.000	15.701	1.422	10.000	160.000	16.974	0.610
0.000	425.000	15.536	1.302	10.000	155.000	16.918	0.597
0.000	430.000	15.939	1.021	10.000	150.000	16.891	0.913
0.000	435.000	16.241	0.689	10.000	145.000	16.177	1.304
0.000	440.000	16.113	0.915	10.000	140.000	16.406	0.981
0.000	445.000	17.212	0.955	10.000	135.000	16.671	0.775
0.000	450.000	18.374	0.903	10.000	130.000	16.195	0.712
LINE 10				10.000	125.000	15.555	0.424
10.000	450.000	17.413	0.444	10.000	120.000	15.930	0.990
10.000	445.000	17.541	0.417	10.000	115.000	16.177	0.832
10.000	440.000	16.927	0.564	10.000	110.000	17.019	0.786
10.000	435.000	16.204	0.828	10.000	105.000	16.534	0.622
10.000	430.000	16.369	0.810	10.000	100.000	16.598	0.439
10.000	425.000	16.497	0.942	10.000	95.000	16.992	0.466
10.000	420.000	16.351	0.819	10.000	90.000	17.505	0.615
10.000	415.000	16.287	0.661	10.000	85.000	17.761	0.617
10.000	410.000	16.250	0.852	10.000	80.000	17.806	0.610
10.000	405.000	16.387	1.265	10.000	75.000	17.212	0.687
10.000	400.000	16.360	0.872	10.000	70.000	16.369	0.679
10.000	395.000	16.516	0.795	10.000	65.000	16.443	0.661
10.000	390.000	16.891	0.959	10.000	60.000	16.735	0.683
10.000	385.000	16.662	1.076	10.000	55.000	17.212	0.633
10.000	380.000	16.763	1.258	10.000	50.000	17.322	0.507
10.000	375.000	17.331	0.659	10.000	45.000	17.459	0.448

Line	Station	In-Phase	Quad.
10.000	40.000	17.294	0.503
10.000	35.000	17.193	0.474
10.000	30.000	17.541	0.707
10.000	25.000	17.047	0.824
10.000	20.000	17.101	0.668
10.000	15.000	17.175	0.617
10.000	10.000	17.157	0.532
10.000	5.000	17.257	0.543
10.000	0.000	18.100	0.571
LINE 20			
20.000	0.000	18.502	0.378
20.000	5.000	18.567	0.382
20.000	10.000	18.210	0.382
20.000	15.000	17.111	0.632
20.000	20.000	17.010	0.549
20.000	25.000	16.918	0.509
20.000	30.000	16.909	1.651
20.000	35.000	17.019	1.104
20.000	40.000	17.148	0.442
20.000	45.000	17.239	0.564
20.000	50.000	17.230	0.648
20.000	55.000	17.221	0.485
20.000	60.000	16.809	0.571
20.000	65.000	17.212	0.459
20.000	70.000	18.045	1.536
20.000	75.000	17.651	1.912
20.000	80.000	17.514	0.964
20.000	85.000	17.413	0.779
20.000	90.000	17.816	0.516
20.000	95.000	17.578	0.531
20.000	100.000	17.166	0.472
20.000	105.000	17.404	0.745
20.000	110.000	17.340	0.909
20.000	115.000	17.486	0.940
20.000	120.000	17.660	0.703
20.000	125.000	17.660	0.598
20.000	130.000	17.431	0.604
20.000	135.000	17.623	0.670
20.000	140.000	17.541	0.707
20.000	145.000	16.983	0.567
20.000	150.000	16.543	0.648
20.000	155.000	16.845	0.828
20.000	160.000	16.681	0.655
20.000	165.000	16.443	0.536
20.000	170.000	16.791	0.628
20.000	175.000	17.019	0.946
20.000	180.000	16.177	0.968
20.000	185.000	15.957	0.865
20.000	190.000	16.122	0.745
20.000	195.000	16.626	0.602
20.000	200.000	16.937	0.588
20.000	205.000	16.818	0.576
20.000	210.000	17.038	0.499
20.000	215.000	16.918	0.514
20.000	220.000	16.195	0.571
20.000	225.000	16.223	0.488
20.000	230.000	16.260	0.512
20.000	235.000	15.591	0.683
20.000	240.000	16.287	0.525
20.000	245.000	16.067	0.588
20.000	250.000	15.490	0.667
20.000	255.000	15.903	0.540
20.000	260.000	16.378	0.545
20.000	265.000	16.580	0.519
20.000	270.000	16.369	0.611
20.000	275.000	16.424	0.589
20.000	280.000	16.305	0.578
20.000	285.000	16.131	0.551
20.000	290.000	16.168	0.716
20.000	295.000	16.360	0.679
20.000	300.000	16.260	0.872
20.000	305.000	16.159	0.690
20.000	310.000	15.893	0.821
20.000	315.000	15.555	1.098
20.000	320.000	15.609	0.872
20.000	325.000	16.241	0.834
20.000	330.000	17.028	0.711
20.000	335.000	16.965	0.738
20.000	340.000	17.550	0.600
20.000	345.000	17.788	0.501
20.000	350.000	17.935	0.450
20.000	355.000	17.376	0.580
20.000	360.000	17.449	0.815
20.000	365.000	17.120	0.766
20.000	370.000	17.477	0.832
20.000	375.000	17.541	1.058
20.000	380.000	17.898	0.865
20.000	385.000	18.292	0.819
20.000	390.000	17.843	0.962
20.000	395.000	17.065	1.039
20.000	400.000	17.157	1.137
20.000	405.000	17.440	0.727
20.000	410.000	17.569	0.852
20.000	415.000	16.992	1.069
20.000	420.000	16.617	0.779
20.000	425.000	16.461	0.907
20.000	430.000	17.083	0.784
20.000	435.000	17.129	0.624
20.000	440.000	16.644	0.687
20.000	445.000	16.260	0.913
20.000	450.000	16.900	0.639
LINE 30			
30.000	450.000	16.644	0.475
30.000	445.000	16.681	0.424
30.000	440.000	16.424	0.457
30.000	435.000	16.378	0.486
30.000	430.000	16.470	0.490
30.000	425.000	16.507	0.668
30.000	420.000	16.735	0.722
30.000	415.000	16.927	0.564
30.000	410.000	16.983	0.553
30.000	405.000	17.111	0.564
30.000	400.000	18.411	0.514
30.000	395.000	18.402	0.523
30.000	390.000	17.935	0.422
30.000	385.000	17.587	0.479
30.000	380.000	18.365	0.402
30.000	375.000	18.667	0.435
30.000	370.000	17.916	0.437
30.000	365.000	17.111	0.437
30.000	360.000	17.761	0.361
30.000	355.000	18.127	0.279
30.000	350.000	18.676	0.288
30.000	345.000	18.868	0.259
30.000	340.000	20.517	0.310
30.000	335.000	22.384	0.334
30.000	330.000	20.856	0.242
30.000	325.000	18.219	0.327
30.000	320.000	16.927	0.437
30.000	315.000	16.415	0.380
30.000	310.000	16.735	0.319
30.000	305.000	16.744	0.332

Line	Station	In-Phase	Quad.
30.000	300.000	16.754	0.330
30.000	295.000	16.818	0.317
30.000	290.000	16.516	0.457
30.000	285.000	16.443	0.431
30.000	280.000	16.461	0.464
30.000	275.000	16.287	0.499
30.000	270.000	16.223	0.455
30.000	265.000	15.618	0.729
30.000	260.000	15.783	0.547
30.000	255.000	15.747	0.560
30.000	250.000	15.454	0.365
30.000	245.000	15.463	0.332
30.000	240.000	15.829	0.384
30.000	235.000	16.113	0.356
30.000	230.000	16.149	0.257
30.000	225.000	15.930	0.279
30.000	220.000	15.966	0.457
30.000	215.000	15.756	0.407
30.000	210.000	15.829	0.306
30.000	205.000	16.461	0.303
30.000	200.000	16.250	0.356
30.000	195.000	16.296	0.330
30.000	190.000	15.985	0.404
30.000	185.000	16.039	0.387
30.000	180.000	16.021	0.330
30.000	175.000	15.957	0.349
30.000	170.000	16.260	0.339
30.000	165.000	16.241	0.281
30.000	160.000	16.058	0.339
30.000	155.000	16.067	0.327
30.000	150.000	16.076	0.319
30.000	145.000	16.195	0.319
30.000	140.000	16.204	0.338
30.000	135.000	16.479	0.373
30.000	130.000	16.534	0.369
30.000	125.000	16.250	0.387
30.000	120.000	16.342	0.384
30.000	115.000	16.479	0.363
30.000	110.000	16.333	0.360
30.000	105.000	16.333	0.339
30.000	100.000	16.241	0.259
30.000	95.000	16.323	0.301
30.000	90.000	16.095	0.384
30.000	85.000	16.095	0.376
30.000	80.000	16.333	0.374
30.000	75.000	16.607	0.389
30.000	70.000	16.781	0.395
30.000	65.000	16.818	0.374
30.000	60.000	16.699	0.417
30.000	55.000	16.223	0.435
30.000	50.000	16.626	0.415
30.000	45.000	16.726	0.418
30.000	40.000	16.626	0.483
30.000	35.000	16.992	0.431
30.000	30.000	16.909	0.507
30.000	25.000	16.260	0.474
30.000	20.000	16.039	0.444
30.000	15.000	16.406	0.440
30.000	10.000	16.525	0.725
30.000	5.000	17.010	0.738
30.000	0.000	18.411	0.466
LINE 40			
40.000	0.000	17.990	0.393
40.000	5.000	17.944	0.398
40.000	10.000	17.688	0.545
40.000	15.000	16.772	0.606
40.000	20.000	16.937	0.497
40.000	25.000	16.927	0.477
40.000	30.000	16.296	0.608
40.000	35.000	16.021	0.668
40.000	40.000	16.223	0.659
40.000	45.000	16.534	0.569
40.000	50.000	16.800	0.459
40.000	55.000	17.148	0.360
LINE 50			
50.000	0.000	17.541	0.490
50.000	5.000	17.459	0.505
50.000	10.000	17.239	1.128
50.000	15.000	17.092	0.672
50.000	20.000	16.827	0.562
50.000	25.000	16.534	0.519
50.000	30.000	16.140	0.576
50.000	35.000	16.744	0.582
50.000	40.000	16.937	0.793
LINE 60			
60.000	0.000	17.669	0.420
60.000	5.000	17.916	0.430
60.000	10.000	17.367	0.637
60.000	15.000	17.239	0.418
60.000	20.000	17.083	0.545
60.000	25.000	16.296	0.597
60.000	30.000	15.838	0.501
60.000	35.000	15.921	0.565
60.000	40.000	16.845	0.799
LINE 70			
70.000	0.000	17.953	0.396
70.000	5.000	18.163	0.430
70.000	10.000	18.163	0.663
70.000	15.000	17.266	0.764
70.000	20.000	17.331	0.720
70.000	25.000	17.486	0.632
70.000	30.000	16.626	0.518
70.000	35.000	15.994	0.558
LINE 80			
80.000	0.000	17.422	0.564
80.000	5.000	17.358	0.573
80.000	10.000	17.715	0.584
80.000	15.000	17.459	0.584
80.000	20.000	17.532	0.782
80.000	25.000	16.955	0.902
80.000	30.000	16.891	0.499
80.000	35.000	16.434	0.453
80.000	40.000	16.095	0.455
LINE 90			
90.000	0.000	17.523	0.497
90.000	5.000	17.248	0.461
90.000	10.000	17.559	0.442
90.000	15.000	17.853	0.463
90.000	20.000	17.679	0.442
90.000	25.000	17.724	0.529
90.000	30.000	17.596	0.488
90.000	35.000	17.239	0.430
90.000	40.000	15.930	1.098
LINE 100			
100.000	0.000	18.054	0.433
100.000	5.000	18.319	0.453
100.000	10.000	17.806	0.472
100.000	15.000	17.733	0.519
100.000	20.000	17.614	0.575
100.000	25.000	17.797	1.809
100.000	30.000	17.898	1.530
100.000	35.000	17.505	0.817

Line	Station	In-Phase	Quad.
100.000	40.000	16.735	0.685
100.000	45.000	16.626	0.509
LINE 110			
110.000	0.000	17.770	0.650
110.000	5.000	17.642	0.655
110.000	10.000	17.294	0.927
110.000	15.000	17.449	0.929
110.000	20.000	17.642	1.416
110.000	25.000	17.376	0.924
110.000	30.000	17.129	0.814
110.000	35.000	17.559	1.111
110.000	40.000	17.376	0.610
110.000	45.000	16.387	0.463
110.000	50.000	16.434	0.532
LINE 120			
120.000	0.000	17.623	0.417
120.000	5.000	17.660	0.433
120.000	10.000	17.853	0.437
120.000	15.000	17.797	0.652
120.000	20.000	17.916	0.764
120.000	25.000	17.816	0.632
120.000	30.000	17.422	0.551
120.000	35.000	17.889	0.565
120.000	40.000	17.505	0.755
120.000	45.000	16.561	0.641
120.000	50.000	15.976	0.562
LINE 130			
130.000	0.000	17.816	0.477
130.000	5.000	17.843	0.525
130.000	10.000	17.752	0.622
130.000	15.000	17.550	0.593
130.000	20.000	17.797	0.848
130.000	25.000	18.200	1.277
130.000	30.000	17.468	0.611
130.000	35.000	17.358	0.630
130.000	40.000	18.246	0.716
130.000	45.000	17.505	0.663
130.000	50.000	16.772	0.654
LINE 140			
140.000	0.000	17.440	0.440
140.000	5.000	17.788	0.455
140.000	10.000	17.669	0.448
140.000	15.000	17.367	0.468
140.000	20.000	16.946	0.611
140.000	25.000	16.909	0.764
140.000	30.000	17.505	0.745
140.000	35.000	17.733	0.802
140.000	40.000	17.358	0.802
140.000	45.000	16.095	0.830
140.000	50.000	15.756	0.815
LINE 150			
150.000	0.000	17.422	0.293
150.000	5.000	17.550	0.373
150.000	10.000	17.376	0.516
150.000	15.000	17.559	0.494
150.000	20.000	17.239	0.562
150.000	25.000	17.074	0.536
150.000	30.000	17.257	0.696
150.000	35.000	17.010	0.751
150.000	40.000	17.184	0.621
150.000	45.000	17.001	0.655
150.000	50.000	16.927	0.417
LINE 160			
160.000	0.000	16.818	0.534
160.000	5.000	17.047	0.553
160.000	10.000	17.138	0.692
160.000	15.000	17.083	0.689
160.000	20.000	17.028	0.709
160.000	25.000	16.791	1.198
160.000	30.000	16.854	1.209
160.000	35.000	16.607	0.959
160.000	40.000	16.864	0.970
160.000	45.000	16.470	1.253
160.000	50.000	16.580	0.461
LINE 170			
170.000	0.000	17.514	0.395
170.000	5.000	17.770	0.422
170.000	10.000	17.834	0.474
170.000	15.000	17.340	0.505
170.000	20.000	16.937	0.564
170.000	25.000	17.376	0.516
170.000	30.000	17.889	0.466
170.000	35.000	17.724	0.448
170.000	40.000	17.275	0.589
170.000	45.000	17.065	0.801
170.000	50.000	16.260	0.622
170.000	55.000	16.744	0.475
LINE 180			
180.000	0.000	17.257	0.655
180.000	5.000	17.376	0.598
180.000	10.000	17.440	0.641
180.000	15.000	17.074	0.788
180.000	20.000	16.937	0.867
180.000	25.000	16.992	1.001
180.000	30.000	17.047	1.326
180.000	35.000	16.708	1.214
180.000	40.000	16.882	0.740
180.000	45.000	16.873	0.940
180.000	50.000	16.323	0.701
180.000	55.000	16.314	0.543
LINE 190			
190.000	0.000	16.992	0.341
190.000	5.000	17.120	0.327
190.000	10.000	17.019	0.643
190.000	15.000	16.918	0.576
190.000	20.000	17.120	0.714
190.000	25.000	17.184	0.650
190.000	30.000	17.166	0.485
190.000	35.000	17.486	0.578
190.000	40.000	17.587	0.459
190.000	45.000	17.926	0.683
190.000	50.000	17.358	0.622
190.000	55.000	16.443	0.463
190.000	60.000	16.406	0.409
LINE 200			
200.000	0.000	16.488	0.542
200.000	5.000	16.937	0.461
200.000	10.000	17.056	0.628
200.000	15.000	17.212	0.569
200.000	20.000	17.120	0.571
200.000	25.000	16.983	0.790
200.000	30.000	16.965	0.565
200.000	35.000	17.376	0.540
200.000	40.000	17.358	0.760
200.000	45.000	17.248	0.894
200.000	50.000	17.596	0.584
200.000	55.000	16.882	0.556
200.000	60.000	16.122	0.657
LINE 210			
210.000	0.000	16.946	0.736
210.000	5.000	17.092	0.742
210.000	10.000	17.120	1.236

Line	Station	In-Phase	Quad.
210.000	15.000	17.193	1.455
210.000	20.000	17.239	0.856
210.000	25.000	17.523	0.802
210.000	30.000	17.440	0.797
210.000	35.000	17.761	0.845
210.000	40.000	17.862	0.731
210.000	45.000	18.036	0.648
210.000	50.000	18.145	0.810
210.000	55.000	17.660	0.565
210.000	60.000	16.781	0.604
210.000	65.000	16.561	0.667
LINE 220			
220.000	0.000	17.404	0.593
220.000	5.000	17.569	0.650
220.000	10.000	17.395	0.705
220.000	15.000	17.505	0.674
220.000	20.000	17.074	0.915
220.000	25.000	17.532	0.869
220.000	30.000	16.681	0.817
220.000	35.000	16.836	1.023
220.000	40.000	17.129	1.003
220.000	45.000	17.376	0.751
220.000	50.000	17.916	0.731
220.000	55.000	17.788	0.687
220.000	60.000	17.184	0.510
220.000	65.000	16.635	0.536
220.000	70.000	17.248	0.509
LINE 230			
230.000	0.000	17.294	1.240
230.000	5.000	17.303	0.716
230.000	10.000	17.440	0.845
230.000	15.000	17.761	1.155
230.000	20.000	17.679	1.482
230.000	25.000	17.532	1.582
230.000	30.000	17.569	0.997
230.000	35.000	17.569	0.255
230.000	40.000	17.999	0.336
230.000	45.000	18.200	0.477
230.000	50.000	18.585	0.749
230.000	55.000	18.640	0.542
230.000	60.000	17.916	0.486
230.000	65.000	16.772	0.613
230.000	70.000	17.312	0.464
LINE 240			
240.000	0.000	17.505	0.374
240.000	5.000	17.514	0.374
240.000	10.000	17.449	0.505
240.000	15.000	17.413	0.709
240.000	20.000	17.367	0.646
240.000	25.000	17.688	0.521
240.000	30.000	17.779	0.598
240.000	35.000	17.486	0.727
240.000	40.000	18.063	0.740
240.000	45.000	18.384	0.740
240.000	50.000	18.347	0.652
240.000	55.000	18.658	0.613
240.000	60.000	18.127	0.670
240.000	65.000	17.001	0.490
240.000	70.000	16.589	0.565
240.000	75.000	17.340	0.417
LINE 250			
250.000	0.000	16.927	0.633
250.000	5.000	16.974	0.446
250.000	10.000	16.827	0.422
250.000	15.000	17.028	0.446
250.000	20.000	17.413	0.644
250.000	25.000	16.845	0.927
250.000	30.000	16.717	0.707
250.000	35.000	17.294	0.751
250.000	40.000	17.578	0.768
250.000	45.000	17.559	0.916
250.000	50.000	17.578	0.788
250.000	55.000	18.027	0.672
250.000	60.000	17.120	0.824
250.000	65.000	16.644	0.909
250.000	70.000	16.800	0.922
250.000	75.000	16.809	0.593
LINE 260			
260.000	0.000	16.717	0.444
260.000	5.000	16.662	0.519
260.000	10.000	16.653	0.604
260.000	15.000	16.909	0.582
260.000	20.000	16.452	0.354
260.000	25.000	16.864	0.378
260.000	30.000	17.239	0.569
260.000	35.000	17.101	0.812
260.000	40.000	16.927	1.462
260.000	45.000	16.909	1.534
260.000	50.000	17.010	0.635
260.000	55.000	17.184	0.606
260.000	60.000	17.157	0.532
260.000	65.000	17.101	0.453
260.000	70.000	16.690	0.485
260.000	75.000	16.351	0.490
LINE 40			
40.000	450.000	16.726	0.529
40.000	445.000	16.662	0.540
40.000	440.000	16.131	0.562
40.000	435.000	16.213	0.703
40.000	430.000	16.681	0.819
40.000	425.000	16.607	0.870
40.000	420.000	16.818	0.725
40.000	415.000	17.239	0.564
40.000	410.000	17.175	0.602
40.000	405.000	17.340	0.646
40.000	400.000	17.303	1.265
40.000	395.000	17.193	1.378
40.000	390.000	17.779	0.819
40.000	385.000	17.962	0.505
40.000	380.000	18.054	0.488
40.000	375.000	18.027	0.497
40.000	370.000	17.733	0.586
LINE 50			
50.000	450.000	16.772	0.573
50.000	445.000	17.038	0.578
50.000	440.000	17.101	0.582
50.000	435.000	16.626	0.554
50.000	430.000	16.223	0.538
50.000	425.000	16.086	0.543
50.000	420.000	16.561	0.543
50.000	415.000	16.983	0.534
50.000	410.000	17.322	0.534
50.000	405.000	17.651	0.578
50.000	400.000	17.779	0.751
50.000	395.000	17.715	0.709
50.000	390.000	17.733	0.505
50.000	385.000	17.944	0.516
50.000	380.000	17.990	0.497
50.000	375.000	17.953	0.503
50.000	370.000	17.496	0.496
50.000	365.000	17.257	0.413
50.000	360.000	16.974	0.538

Line	Station	In-Phase	Quad.
50.000	355.000	17.413	0.485
50.000	350.000	21.432	0.301
LINE 60			
60.000	250.000	15.921	0.442
60.000	255.000	15.682	0.426
60.000	260.000	15.884	0.474
60.000	265.000	15.939	0.655
60.000	270.000	15.802	0.735
60.000	275.000	15.738	0.576
60.000	280.000	15.893	0.586
60.000	285.000	16.086	0.588
60.000	290.000	16.049	0.470
60.000	295.000	15.903	0.545
60.000	300.000	16.168	0.562
60.000	305.000	16.287	0.578
60.000	310.000	16.360	0.670
60.000	315.000	16.333	0.654
60.000	320.000	16.195	0.591
60.000	325.000	16.342	0.643
60.000	330.000	16.269	0.663
60.000	335.000	16.470	0.643
60.000	340.000	16.836	0.576
60.000	345.000	16.360	0.391
60.000	350.000	16.507	0.635
60.000	355.000	16.763	0.562
60.000	360.000	17.477	0.613
60.000	365.000	17.953	0.696
60.000	370.000	17.001	0.650
60.000	375.000	16.873	0.639
60.000	380.000	17.486	0.558
60.000	385.000	17.550	0.597
60.000	390.000	17.285	0.648
60.000	395.000	17.129	0.775
60.000	400.000	17.532	0.681
60.000	405.000	17.614	0.604
60.000	410.000	17.349	0.701
60.000	415.000	17.184	0.600
60.000	420.000	16.864	0.598
60.000	425.000	16.406	0.617
60.000	430.000	16.250	0.755
60.000	435.000	16.250	0.571
60.000	440.000	16.387	0.630
60.000	445.000	16.278	0.771
60.000	450.000	16.580	0.648
LINE 70			
70.000	450.000	15.994	0.486
70.000	445.000	16.131	0.507
70.000	440.000	16.598	0.588
70.000	435.000	16.836	0.575
70.000	430.000	16.443	0.547
70.000	425.000	16.223	0.580
70.000	420.000	16.159	0.545
70.000	415.000	16.424	0.490
70.000	410.000	16.735	0.523
70.000	405.000	17.138	0.580
70.000	400.000	17.550	0.549
70.000	395.000	17.770	0.611
70.000	390.000	17.449	0.600
70.000	385.000	17.047	0.711
70.000	380.000	16.681	0.893
70.000	375.000	17.422	0.512
70.000	370.000	17.468	0.841
70.000	365.000	17.578	0.619
70.000	360.000	17.962	0.567
70.000	355.000	17.770	0.595
70.000	350.000	17.266	0.499
70.000	345.000	17.825	0.455
70.000	340.000	18.393	0.595
70.000	335.000	17.990	0.553
70.000	330.000	16.909	0.593
70.000	325.000	16.488	0.608
70.000	320.000	16.424	1.034
70.000	315.000	16.232	1.324
70.000	310.000	16.396	0.900
70.000	305.000	15.573	0.707
70.000	300.000	17.010	0.486
70.000	295.000	16.900	0.560
70.000	290.000	16.213	0.497
70.000	285.000	15.893	0.464
70.000	280.000	16.260	0.628
70.000	275.000	16.012	0.643
70.000	270.000	16.122	0.428
70.000	265.000	16.186	0.426
70.000	260.000	15.856	0.494
70.000	255.000	15.802	0.486
70.000	250.000	15.142	0.779
70.000	245.000	15.234	0.639
70.000	240.000	15.545	0.705
70.000	235.000	15.673	0.655
70.000	230.000	15.426	0.665
70.000	225.000	15.198	0.521
70.000	220.000	15.261	0.466
70.000	215.000	15.198	0.516
70.000	210.000	15.445	0.562
70.000	205.000	15.893	0.494
70.000	200.000	15.646	0.426
70.000	195.000	15.957	0.542
70.000	190.000	16.406	0.621
70.000	185.000	16.479	0.716
70.000	180.000	16.607	0.615
70.000	175.000	16.406	0.677
70.000	170.000	15.985	0.681
70.000	165.000	16.086	0.496
70.000	160.000	16.223	0.532
70.000	155.000	16.168	0.523
70.000	150.000	16.644	0.542
70.000	145.000	16.974	0.424
70.000	140.000	16.653	0.543
70.000	135.000	16.415	0.536
70.000	130.000	16.763	0.464
70.000	125.000	16.827	0.470
70.000	120.000	16.543	0.457
70.000	115.000	16.260	0.668
70.000	110.000	16.351	0.677
70.000	105.000	16.149	0.420
70.000	100.000	16.314	0.464
LINE 80			
80.000	80.000	16.415	0.604
80.000	85.000	16.067	0.551
80.000	90.000	16.076	0.497
80.000	95.000	16.223	0.733
80.000	100.000	17.239	0.442
80.000	105.000	17.065	0.531
80.000	110.000	17.303	0.595
80.000	115.000	17.779	0.547
80.000	120.000	17.578	0.455
80.000	125.000	17.111	0.773
80.000	130.000	16.854	1.095
80.000	135.000	17.065	0.768
80.000	140.000	17.010	0.586
80.000	145.000	17.065	0.742
80.000	150.000	16.946	0.845

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
80.000	155.000	16.845	1.176	90.000	425.000	15.646	0.626
80.000	160.000	16.800	0.874	90.000	420.000	15.646	0.621
80.000	165.000	17.266	0.665	90.000	415.000	16.159	1.627
80.000	170.000	17.312	0.679	90.000	410.000	16.269	1.510
80.000	175.000	16.791	0.769	90.000	405.000	16.012	0.933
80.000	180.000	16.488	0.571	90.000	400.000	16.497	0.687
80.000	185.000	16.387	0.529	90.000	395.000	16.891	0.611
80.000	190.000	16.140	0.905	90.000	390.000	16.800	0.657
80.000	195.000	16.278	0.608	90.000	385.000	16.351	0.622
80.000	200.000	15.856	0.505	90.000	380.000	16.314	0.516
80.000	205.000	15.518	0.580	90.000	375.000	16.406	0.556
80.000	210.000	15.820	0.589	90.000	370.000	16.461	0.674
80.000	215.000	16.159	0.565	90.000	365.000	17.028	0.657
80.000	220.000	16.323	0.497	90.000	360.000	17.477	0.718
80.000	225.000	16.159	0.576	90.000	355.000	17.092	0.828
80.000	230.000	16.039	0.606	90.000	350.000	17.257	0.700
80.000	235.000	16.168	0.595	90.000	345.000	17.358	0.667
80.000	240.000	16.177	0.554	90.000	340.000	16.965	0.661
80.000	245.000	16.039	0.512	90.000	335.000	16.809	0.635
80.000	250.000	16.131	0.543	90.000	330.000	17.019	0.690
80.000	255.000	15.985	0.542	90.000	325.000	17.038	0.665
80.000	260.000	15.939	0.503	90.000	320.000	16.845	0.501
80.000	265.000	16.177	0.543	90.000	315.000	16.681	0.440
80.000	270.000	16.626	0.540	90.000	310.000	16.525	0.510
80.000	275.000	16.351	0.534	90.000	305.000	16.598	0.534
80.000	280.000	16.241	0.547	90.000	300.000	16.434	0.580
80.000	285.000	16.250	0.532	90.000	295.000	16.626	0.512
80.000	290.000	16.213	0.571	90.000	290.000	16.681	0.536
80.000	295.000	16.012	0.604	90.000	285.000	16.570	0.521
80.000	300.000	15.994	0.624	90.000	280.000	16.452	0.580
80.000	305.000	16.278	0.556	90.000	275.000	16.406	0.571
80.000	310.000	16.497	0.738	90.000	270.000	16.186	0.562
80.000	315.000	16.095	0.828	90.000	265.000	16.470	0.538
80.000	320.000	16.342	0.667	90.000	260.000	16.909	0.582
80.000	325.000	16.570	0.667	90.000	255.000	16.818	0.591
80.000	330.000	16.662	0.689	90.000	250.000	16.763	0.483
80.000	335.000	16.891	0.650	90.000	245.000	16.845	0.510
80.000	340.000	17.028	0.790	90.000	240.000	16.717	0.440
80.000	345.000	17.028	0.841	90.000	235.000	16.452	0.497
80.000	350.000	16.626	0.788	90.000	230.000	16.754	0.531
80.000	355.000	16.681	0.600	90.000	225.000	16.671	0.670
80.000	360.000	16.754	0.621	90.000	220.000	16.396	0.554
80.000	365.000	17.047	0.549	90.000	215.000	16.387	0.576
80.000	370.000	17.019	0.677	90.000	210.000	16.314	0.696
80.000	375.000	16.763	0.575	90.000	205.000	16.434	0.610
80.000	380.000	16.965	0.538	90.000	200.000	16.479	0.722
80.000	385.000	17.083	0.527	90.000	195.000	16.415	0.744
80.000	390.000	16.965	0.567	90.000	190.000	16.955	0.630
80.000	395.000	16.488	0.584	90.000	185.000	17.248	0.740
80.000	400.000	16.607	0.633	90.000	180.000	16.891	0.830
80.000	405.000	17.212	0.593	90.000	175.000	16.159	0.815
80.000	410.000	16.900	0.709	90.000	170.000	16.269	0.845
80.000	415.000	15.609	0.909	90.000	165.000	17.010	1.561
80.000	420.000	15.161	0.696	90.000	160.000	17.212	1.585
80.000	425.000	15.527	0.611	90.000	155.000	16.937	0.852
80.000	430.000	15.729	0.749	90.000	150.000	17.001	0.668
80.000	435.000	16.250	0.657	90.000	145.000	17.752	0.613
80.000	440.000	16.507	0.661	90.000	140.000	17.202	1.365
80.000	445.000	15.820	0.768	90.000	135.000	16.589	1.683
80.000	450.000	15.564	0.804	90.000	130.000	16.873	0.903
LINE 90				90.000	125.000	17.275	0.705
90.000	450.000	15.353	0.521	90.000	120.000	16.635	0.872
90.000	445.000	15.499	0.542	90.000	115.000	16.507	0.786
90.000	440.000	15.225	0.757	90.000	110.000	16.580	0.749
90.000	435.000	15.454	0.667	90.000	105.000	17.074	0.700
90.000	430.000	15.856	0.633	90.000	100.000	17.367	0.558

Line	Station	In-Phase	Quad.
90.000	95.000	17.376	0.598
90.000	90.000	16.671	0.617
90.000	85.000	15.976	0.667
NE 100			
100.000	85.000	15.966	0.597
100.000	90.000	15.994	0.711
100.000	95.000	16.030	0.883
100.000	100.000	16.580	0.815
100.000	105.000	16.854	0.722
100.000	110.000	16.580	0.802
100.000	115.000	16.653	0.597
100.000	120.000	16.791	0.569
100.000	125.000	16.882	0.652
100.000	130.000	16.937	0.723
100.000	135.000	17.385	0.654
100.000	140.000	17.550	0.729
100.000	145.000	17.312	0.725
100.000	150.000	17.184	0.521
100.000	155.000	17.257	0.514
100.000	160.000	17.101	0.573
100.000	165.000	17.166	0.553
100.000	170.000	17.926	0.542
100.000	175.000	17.797	0.567
100.000	180.000	16.974	0.576
100.000	185.000	17.266	0.705
100.000	190.000	17.688	0.643
100.000	195.000	16.818	0.819
100.000	200.000	16.360	0.847
100.000	205.000	16.598	0.751
100.000	210.000	16.699	0.595
100.000	215.000	16.589	0.527
100.000	220.000	16.681	0.619
100.000	225.000	16.543	0.633
100.000	230.000	16.726	0.576
100.000	235.000	16.699	0.845
100.000	240.000	16.387	1.297
100.000	245.000	16.653	0.839
100.000	250.000	16.836	1.023
100.000	255.000	16.653	1.038
100.000	260.000	16.406	0.982
100.000	265.000	16.516	0.723
100.000	270.000	16.626	0.771
100.000	275.000	16.443	0.709
100.000	280.000	16.671	0.604
100.000	285.000	16.744	0.711
100.000	290.000	16.525	0.725
100.000	295.000	16.845	0.643
100.000	300.000	17.056	0.622
100.000	305.000	16.744	0.554
100.000	310.000	16.699	0.628
100.000	315.000	17.047	0.595
100.000	320.000	16.937	0.723
100.000	325.000	16.708	0.902
100.000	330.000	17.001	0.635
100.000	335.000	18.017	0.591
100.000	340.000	18.100	0.639
100.000	345.000	17.019	0.784
100.000	350.000	16.717	0.784
100.000	355.000	17.367	0.723
100.000	360.000	17.688	0.536
100.000	365.000	17.376	0.819
100.000	370.000	17.806	0.771
100.000	375.000	17.797	0.727
100.000	380.000	17.148	0.769
100.000	385.000	16.278	0.727
100.000	390.000	16.570	0.626
100.000	395.000	17.101	0.650
100.000	400.000	17.019	0.610
100.000	405.000	16.617	0.745
100.000	410.000	16.452	0.824
100.000	415.000	16.809	0.714
100.000	420.000	16.635	0.633
100.000	425.000	15.893	0.622
100.000	430.000	15.710	0.670
100.000	435.000	15.756	0.727
100.000	440.000	15.271	0.863
100.000	445.000	15.106	0.804
100.000	450.000	14.987	0.742
LINE 110			
110.000	450.000	15.912	0.512
110.000	445.000	16.086	0.472
110.000	440.000	15.738	0.600
110.000	435.000	15.316	0.628
110.000	430.000	15.408	0.617
110.000	425.000	15.820	0.606
110.000	420.000	16.030	0.598
110.000	415.000	16.323	0.543
110.000	410.000	16.681	0.488
110.000	405.000	16.552	0.595
110.000	400.000	16.461	0.549
110.000	395.000	16.873	0.503
110.000	390.000	16.873	0.551
110.000	385.000	16.965	0.586
110.000	380.000	16.653	0.505
110.000	375.000	16.589	0.479
110.000	370.000	17.257	0.479
110.000	365.000	17.523	0.529
110.000	360.000	17.111	0.648
110.000	355.000	17.266	0.722
110.000	350.000	17.395	0.573
110.000	345.000	17.303	0.610
110.000	340.000	16.570	0.698
110.000	335.000	16.818	0.683
110.000	330.000	17.853	0.617
110.000	325.000	17.834	0.773
110.000	320.000	17.651	0.604
110.000	315.000	17.413	0.586
110.000	310.000	17.184	0.753
110.000	305.000	16.836	0.948
110.000	300.000	17.120	0.505
110.000	295.000	17.175	0.547
110.000	290.000	16.873	0.606
110.000	285.000	16.946	0.637
110.000	280.000	17.175	0.519
110.000	275.000	16.800	0.519
110.000	270.000	16.461	0.509
110.000	265.000	17.092	0.497
110.000	260.000	17.221	0.670
110.000	255.000	17.001	0.755
110.000	250.000	16.965	0.551
110.000	245.000	16.671	0.556
110.000	240.000	16.818	0.576
110.000	235.000	17.111	0.573
110.000	230.000	17.212	0.485
110.000	225.000	17.422	0.468
110.000	220.000	17.019	0.481
110.000	215.000	16.946	0.523
110.000	210.000	16.882	0.556
110.000	205.000	17.349	0.514
110.000	200.000	17.404	0.567
110.000	195.000	17.449	0.615
110.000	190.000	17.431	0.497

Line	Station	In-Phase	Quad.
110.000	185.000	17.431	0.442
110.000	180.000	17.843	0.509
110.000	175.000	17.834	0.545
110.000	170.000	17.797	0.518
110.000	165.000	17.953	0.576
110.000	160.000	18.264	0.501
110.000	155.000	17.898	0.531
110.000	150.000	17.550	0.569
110.000	145.000	17.916	0.404
110.000	140.000	17.477	0.363
110.000	135.000	17.129	0.483
110.000	130.000	17.642	0.562
110.000	125.000	17.880	0.490
110.000	120.000	17.505	0.475
110.000	115.000	17.230	0.488
110.000	110.000	17.285	0.464
110.000	105.000	17.001	0.558
110.000	100.000	17.010	0.492
110.000	95.000	17.230	0.486
110.000	90.000	16.699	0.488
110.000	85.000	16.360	0.643
LINE 120			
120.000	85.000	16.369	0.674
120.000	90.000	16.269	0.720
120.000	95.000	15.957	0.861
120.000	100.000	16.479	0.791
120.000	105.000	17.184	0.742
120.000	110.000	17.239	0.830
120.000	115.000	17.129	1.028
120.000	120.000	17.221	0.894
120.000	125.000	17.257	0.718
120.000	130.000	17.120	0.648
120.000	135.000	17.166	1.008
120.000	140.000	17.294	0.817
120.000	145.000	16.974	0.683
120.000	150.000	17.047	0.674
120.000	155.000	17.468	0.733
120.000	160.000	17.880	0.637
120.000	165.000	17.990	0.661
120.000	170.000	17.889	0.576
120.000	175.000	17.623	0.547
120.000	180.000	17.175	0.681
120.000	185.000	17.193	0.584
120.000	190.000	17.395	0.534
120.000	195.000	17.505	0.562
120.000	200.000	17.440	0.492
120.000	205.000	17.184	0.714
120.000	210.000	16.800	0.534
120.000	215.000	16.791	0.532
120.000	220.000	16.927	0.823
120.000	225.000	16.873	0.913
120.000	230.000	16.974	0.731
120.000	235.000	17.157	0.516
120.000	240.000	17.166	0.569
120.000	245.000	17.129	0.580
120.000	250.000	17.038	0.516
120.000	255.000	17.184	0.490
120.000	260.000	17.275	0.641
120.000	265.000	17.083	0.821
120.000	270.000	16.754	0.740
120.000	275.000	16.552	0.782
120.000	280.000	16.791	0.667
120.000	285.000	16.516	0.655
120.000	290.000	16.818	0.569
120.000	295.000	16.927	0.584
120.000	300.000	16.946	0.534
120.000	305.000	17.028	0.543
120.000	310.000	17.340	0.497
120.000	315.000	17.148	0.595
120.000	320.000	16.772	0.692
120.000	325.000	16.818	0.551
120.000	330.000	17.248	0.507
120.000	335.000	17.706	0.518
120.000	340.000	17.953	0.542
120.000	345.000	17.367	0.654
120.000	350.000	17.148	0.589
120.000	355.000	17.166	0.523
120.000	360.000	16.873	0.584
120.000	365.000	16.791	0.611
120.000	370.000	17.266	0.578
120.000	375.000	17.212	0.679
120.000	380.000	16.974	0.611
120.000	385.000	16.635	0.639
120.000	390.000	16.452	0.564
120.000	395.000	15.966	0.604
120.000	400.000	17.001	0.584
120.000	405.000	17.120	0.564
120.000	410.000	16.965	0.591
120.000	415.000	16.772	0.843
120.000	420.000	16.918	0.749
120.000	425.000	16.241	0.554
120.000	430.000	16.058	0.525
120.000	435.000	16.058	0.534
120.000	440.000	15.903	0.621
120.000	445.000	15.783	0.630
120.000	450.000	15.481	0.707
LINE 130			
130.000	450.000	15.372	0.389
130.000	445.000	15.463	0.431
130.000	440.000	15.390	0.584
130.000	435.000	15.591	0.707
130.000	430.000	15.508	0.837
130.000	425.000	15.729	1.249
130.000	420.000	15.637	1.168
130.000	415.000	15.856	0.801
130.000	410.000	15.994	1.302
130.000	405.000	16.342	0.707
130.000	400.000	16.396	0.951
130.000	395.000	16.809	1.225
130.000	390.000	16.772	1.662
130.000	385.000	15.939	1.304
130.000	380.000	15.811	0.586
130.000	375.000	15.838	0.703
130.000	370.000	16.030	0.676
130.000	365.000	16.076	0.613
130.000	360.000	16.095	0.870
130.000	355.000	16.552	0.718
130.000	350.000	16.516	0.668
130.000	345.000	16.699	0.703
130.000	340.000	16.543	0.755
130.000	335.000	16.452	1.378
130.000	330.000	16.781	1.649
130.000	325.000	16.415	1.337
130.000	320.000	16.900	1.030
130.000	315.000	16.900	1.150
130.000	310.000	16.735	0.812
130.000	305.000	16.543	0.758
130.000	300.000	17.010	0.549
130.000	295.000	16.992	0.527
130.000	290.000	16.681	0.635
130.000	285.000	16.809	0.760
130.000	280.000	16.983	0.727

Line	Station	In-Phase	Quad.
130.000	275.000	17.001	0.663
130.000	270.000	16.791	0.619
130.000	265.000	16.791	0.602
130.000	260.000	16.690	0.608
130.000	255.000	17.019	0.635
130.000	250.000	17.221	0.749
130.000	245.000	17.202	0.663
130.000	240.000	17.111	0.549
130.000	235.000	17.083	0.560
130.000	230.000	17.550	0.580
130.000	225.000	17.148	0.617
130.000	220.000	17.138	0.564
130.000	215.000	17.120	0.674
130.000	210.000	17.175	0.611
130.000	205.000	17.074	0.626
130.000	200.000	16.845	0.753
130.000	195.000	17.275	0.764
130.000	190.000	17.376	0.707
130.000	185.000	17.248	0.834
130.000	180.000	17.679	0.610
130.000	175.000	17.175	0.626
130.000	170.000	16.992	0.661
130.000	165.000	17.541	0.534
130.000	160.000	17.980	0.545
130.000	155.000	17.806	0.812
130.000	150.000	17.230	0.810
130.000	145.000	17.367	0.635
130.000	140.000	17.248	0.582
130.000	135.000	17.422	0.608
130.000	130.000	17.642	0.665
130.000	125.000	17.496	0.584
130.000	120.000	17.092	0.630
130.000	115.000	17.074	0.646
130.000	110.000	16.927	0.703
130.000	105.000	17.010	0.779
130.000	100.000	16.809	0.622
130.000	95.000	16.699	0.516
130.000	90.000	16.204	0.613
130.000	85.000	16.250	0.852
LINE 140			
140.000	50.000	16.552	0.790
140.000	55.000	17.056	0.837
140.000	60.000	16.461	1.221
140.000	65.000	14.392	0.900
140.000	70.000	13.476	0.602
140.000	75.000	13.888	0.933
140.000	80.000	14.474	1.207
140.000	85.000	15.069	0.915
140.000	90.000	15.948	0.951
140.000	95.000	16.223	0.845
140.000	100.000	16.809	0.938
140.000	105.000	17.257	0.703
140.000	110.000	16.909	0.747
140.000	115.000	16.927	1.023
140.000	120.000	17.367	0.850
140.000	125.000	17.138	1.115
140.000	130.000	16.791	1.256
140.000	135.000	17.523	1.014
140.000	140.000	17.724	0.929
140.000	145.000	17.660	0.806
140.000	150.000	17.422	0.979
140.000	155.000	17.496	1.032
140.000	160.000	17.843	0.959
140.000	165.000	17.743	0.964
140.000	170.000	17.898	0.523
140.000	175.000	17.422	1.407
140.000	180.000	17.459	0.880
140.000	185.000	17.642	0.578
140.000	190.000	17.523	0.624
140.000	195.000	17.349	0.663
140.000	200.000	17.120	0.711
140.000	205.000	17.248	0.696
140.000	210.000	16.946	0.668
140.000	215.000	16.864	0.725
140.000	220.000	17.120	0.775
140.000	225.000	17.358	0.657
140.000	230.000	17.138	0.828
140.000	235.000	16.644	0.782
140.000	240.000	16.570	0.786
140.000	245.000	16.561	0.814
140.000	250.000	16.644	0.810
140.000	255.000	16.149	0.970
140.000	260.000	16.159	0.722
140.000	265.000	16.626	0.542
140.000	270.000	16.708	0.604
140.000	275.000	16.626	0.635
140.000	280.000	16.443	0.543
140.000	285.000	16.763	0.850
140.000	290.000	16.250	1.019
140.000	295.000	15.765	0.654
140.000	300.000	17.184	0.654
140.000	305.000	17.477	0.602
140.000	310.000	17.230	0.628
140.000	315.000	16.497	0.665
140.000	320.000	16.213	0.613
140.000	325.000	16.992	0.707
140.000	330.000	17.001	0.494
140.000	335.000	17.257	0.518
140.000	340.000	17.285	0.507
140.000	345.000	16.937	0.667
140.000	350.000	16.396	0.872
140.000	355.000	16.452	1.106
140.000	360.000	15.966	0.700
140.000	365.000	15.765	0.575
140.000	370.000	15.774	0.657
140.000	375.000	15.921	0.676
140.000	380.000	16.617	0.540
140.000	385.000	16.717	0.597
140.000	390.000	15.582	0.597
140.000	395.000	15.435	0.569
140.000	400.000	16.058	0.507
140.000	405.000	17.001	0.847
140.000	410.000	17.120	0.604
140.000	415.000	16.415	0.694
140.000	420.000	15.701	0.821
140.000	425.000	15.865	0.749
140.000	430.000	15.930	0.644
140.000	435.000	16.003	0.591
140.000	440.000	15.856	0.610
140.000	445.000	15.664	0.613
140.000	450.000	15.609	0.602
LINE 150			
150.000	450.000	15.316	0.479
150.000	445.000	15.628	0.479
150.000	440.000	15.555	0.538
150.000	435.000	15.618	0.558
150.000	430.000	15.856	0.562
150.000	425.000	15.756	0.694
150.000	420.000	15.792	0.859
150.000	415.000	15.710	1.017
150.000	410.000	15.903	0.562
150.000	405.000	16.095	1.400

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
150.000	400.000	16.195	1.227	160.000	90.000	16.168	0.681
150.000	395.000	16.049	0.606	160.000	95.000	16.525	0.676
150.000	390.000	15.655	0.641	160.000	100.000	16.396	0.659
150.000	385.000	14.657	0.705	160.000	105.000	16.497	0.823
150.000	380.000	14.977	1.243	160.000	110.000	16.900	0.659
150.000	375.000	16.104	0.674	160.000	115.000	16.873	1.651
150.000	370.000	16.974	0.501	160.000	120.000	16.671	1.655
150.000	365.000	16.671	2.052	160.000	125.000	16.900	0.832
150.000	360.000	16.086	2.103	160.000	130.000	17.175	0.949
150.000	355.000	15.115	0.589	160.000	135.000	17.367	0.979
150.000	350.000	15.747	0.595	160.000	140.000	17.111	0.834
150.000	345.000	16.461	0.604	160.000	145.000	16.946	0.632
150.000	340.000	16.260	1.104	160.000	150.000	17.440	0.621
150.000	335.000	15.847	1.130	160.000	155.000	17.395	0.527
150.000	330.000	16.021	0.588	160.000	160.000	17.257	0.547
150.000	325.000	16.058	0.643	160.000	165.000	16.965	0.610
150.000	320.000	15.875	0.670	160.000	170.000	16.873	0.558
150.000	315.000	16.049	0.569	160.000	175.000	17.202	0.547
150.000	310.000	16.131	0.597	160.000	180.000	17.413	0.556
150.000	305.000	16.049	0.712	160.000	185.000	16.854	0.698
150.000	300.000	16.387	0.521	160.000	190.000	16.552	0.551
150.000	295.000	16.644	0.437	160.000	195.000	16.434	0.929
150.000	290.000	16.296	0.510	160.000	200.000	16.763	1.047
150.000	285.000	16.452	0.483	160.000	205.000	16.635	0.872
150.000	280.000	16.543	0.486	160.000	210.000	16.827	0.527
150.000	275.000	16.635	0.474	160.000	215.000	16.836	0.657
150.000	270.000	16.791	0.507	160.000	220.000	16.387	0.648
150.000	265.000	17.065	0.450	160.000	225.000	16.369	0.703
150.000	260.000	17.129	0.415	160.000	230.000	16.260	0.751
150.000	255.000	16.937	0.509	160.000	235.000	16.626	0.589
150.000	250.000	16.681	0.488	160.000	240.000	16.690	0.650
150.000	245.000	16.809	0.475	160.000	245.000	16.104	0.874
150.000	240.000	17.175	0.571	160.000	250.000	16.168	0.672
150.000	235.000	17.239	0.531	160.000	255.000	16.314	0.509
150.000	230.000	16.927	0.540	160.000	260.000	16.351	0.549
150.000	225.000	16.671	0.558	160.000	265.000	16.296	0.531
150.000	220.000	16.461	0.712	160.000	270.000	16.617	0.532
150.000	215.000	16.607	0.755	160.000	275.000	16.763	0.624
150.000	210.000	16.864	0.582	160.000	280.000	16.708	0.606
150.000	205.000	17.129	0.505	160.000	285.000	16.918	0.534
150.000	200.000	17.340	0.448	160.000	290.000	16.845	0.538
150.000	195.000	17.385	0.461	160.000	295.000	16.580	0.595
150.000	190.000	17.101	0.512	160.000	300.000	16.543	0.597
150.000	185.000	16.900	0.556	160.000	305.000	16.561	0.600
150.000	180.000	17.303	0.564	160.000	310.000	16.589	0.554
150.000	175.000	17.541	0.534	160.000	315.000	16.671	0.582
150.000	170.000	17.111	0.683	160.000	320.000	16.699	0.554
150.000	165.000	17.385	0.597	160.000	325.000	16.864	0.527
150.000	160.000	17.679	0.516	160.000	330.000	16.809	0.521
150.000	155.000	17.806	0.556	160.000	335.000	16.323	0.553
150.000	150.000	18.027	0.613	160.000	340.000	16.516	0.578
150.000	145.000	17.834	0.582	160.000	345.000	16.617	0.569
150.000	140.000	17.514	0.580	160.000	350.000	17.129	0.525
150.000	135.000	17.578	0.657	160.000	355.000	16.965	0.499
150.000	130.000	17.935	0.622	160.000	360.000	16.617	0.606
150.000	125.000	17.294	0.554	160.000	365.000	16.360	0.615
150.000	120.000	17.523	0.466	160.000	370.000	16.406	0.534
150.000	115.000	17.871	0.450	160.000	375.000	16.204	0.597
150.000	110.000	18.072	0.538	160.000	380.000	16.360	0.507
150.000	105.000	17.614	0.490	160.000	385.000	16.342	0.542
150.000	100.000	16.891	0.497	160.000	390.000	15.976	0.538
150.000	95.000	16.891	0.615	160.000	395.000	15.435	0.554
150.000	90.000	16.918	0.600	160.000	400.000	16.772	0.488
150.000	85.000	16.260	1.212	160.000	405.000	16.873	0.483
NE 160				160.000	410.000	17.157	0.496
160.000	85.000	15.976	0.758	160.000	415.000	16.662	0.562

Line	Station	In-Phase	Quad.
160.000	420.000	16.095	0.595
160.000	425.000	16.076	0.481
160.000	430.000	15.847	0.661
160.000	435.000	15.518	0.692
160.000	440.000	15.582	0.536
160.000	445.000	15.948	0.499
160.000	450.000	15.903	0.534
LINE 170			
170.000	450.000	15.637	0.411
170.000	445.000	15.628	0.356
170.000	440.000	15.573	0.492
170.000	435.000	15.582	0.578
170.000	430.000	15.481	0.701
170.000	425.000	15.609	0.683
170.000	420.000	15.609	0.676
170.000	415.000	15.582	0.641
170.000	410.000	15.701	0.600
170.000	405.000	15.609	0.635
170.000	400.000	15.820	0.604
170.000	395.000	15.655	0.565
170.000	390.000	14.950	0.626
170.000	385.000	15.005	0.610
170.000	380.000	15.637	0.694
170.000	375.000	16.323	0.661
170.000	370.000	16.296	0.757
170.000	365.000	15.207	0.814
170.000	360.000	15.518	0.588
170.000	355.000	15.957	0.824
170.000	350.000	16.342	0.486
170.000	345.000	16.049	1.212
170.000	340.000	15.994	0.740
170.000	335.000	16.012	0.554
170.000	330.000	16.149	0.558
170.000	325.000	16.149	0.799
170.000	320.000	16.058	0.619
170.000	315.000	16.076	0.604
170.000	310.000	16.168	0.674
170.000	305.000	15.930	0.745
170.000	300.000	15.774	0.797
170.000	295.000	16.030	0.949
170.000	290.000	15.939	0.966
170.000	285.000	16.497	0.606
170.000	280.000	16.543	0.709
170.000	275.000	16.049	0.670
170.000	270.000	16.195	0.558
170.000	265.000	16.570	0.576
170.000	260.000	16.104	0.598
170.000	255.000	16.095	0.553
170.000	250.000	16.443	0.483
170.000	245.000	16.561	0.527
170.000	240.000	16.223	0.527
170.000	235.000	16.095	0.591
170.000	230.000	16.598	0.538
170.000	225.000	16.827	0.518
170.000	220.000	16.946	0.600
170.000	215.000	16.131	0.452
170.000	210.000	15.060	0.953
170.000	205.000	15.921	0.773
170.000	200.000	16.754	0.586
170.000	195.000	16.836	0.610
170.000	190.000	16.497	0.580
170.000	185.000	16.690	0.488
170.000	180.000	17.065	0.542
170.000	175.000	17.285	0.529
170.000	170.000	16.946	0.529
170.000	165.000	16.891	0.529
170.000	160.000	17.395	0.452
170.000	155.000	17.331	0.512
170.000	150.000	17.431	0.536
170.000	145.000	17.797	0.492
170.000	140.000	17.843	0.543
170.000	135.000	17.834	0.576
170.000	130.000	17.834	0.494
170.000	125.000	17.843	0.479
170.000	120.000	17.614	0.430
170.000	115.000	17.761	0.558
170.000	110.000	16.992	0.586
170.000	105.000	16.708	0.562
170.000	100.000	16.278	0.696
170.000	95.000	16.342	0.617
170.000	90.000	16.617	0.915
LINE 180			
180.000	90.000	16.269	0.972
180.000	95.000	16.296	1.054
180.000	100.000	15.856	0.551
180.000	105.000	16.241	0.562
180.000	110.000	16.809	0.564
180.000	115.000	16.763	0.915
180.000	120.000	17.138	3.544
180.000	125.000	17.550	3.031
180.000	130.000	17.404	0.611
180.000	135.000	17.331	0.494
180.000	140.000	17.056	0.569
180.000	145.000	17.166	0.654
180.000	150.000	17.312	0.959
180.000	155.000	16.854	0.740
180.000	160.000	17.056	0.674
180.000	165.000	17.193	0.672
180.000	170.000	17.065	0.521
180.000	175.000	16.873	0.547
180.000	180.000	16.681	0.740
180.000	185.000	16.424	1.205
180.000	190.000	16.278	0.872
180.000	195.000	16.396	1.354
180.000	200.000	16.250	0.808
180.000	205.000	16.241	0.683
180.000	210.000	16.323	0.786
180.000	215.000	16.818	0.745
180.000	220.000	17.120	0.731
180.000	225.000	17.395	0.657
180.000	230.000	16.983	0.771
180.000	235.000	16.140	1.030
180.000	240.000	16.140	0.819
180.000	245.000	16.378	0.663
180.000	250.000	16.681	0.624
180.000	255.000	16.470	0.644
180.000	260.000	16.561	0.657
180.000	265.000	16.653	0.655
180.000	270.000	16.791	0.554
180.000	275.000	16.754	0.793
180.000	280.000	16.323	0.753
180.000	285.000	16.690	0.611
180.000	290.000	16.708	0.600
180.000	295.000	16.717	0.576
180.000	300.000	16.534	0.580
180.000	305.000	16.396	0.516
180.000	310.000	16.461	0.551
180.000	315.000	16.690	0.554
180.000	320.000	16.781	0.509
180.000	325.000	16.351	0.538
180.000	330.000	16.122	0.510
180.000	335.000	16.241	0.518

Line	Station	In-Phase	Quad.
180.000	340.000	16.461	0.463
180.000	345.000	16.635	0.481
180.000	350.000	16.635	0.521
180.000	355.000	16.626	0.584
180.000	360.000	16.195	0.740
180.000	365.000	15.545	1.150
180.000	370.000	15.664	1.051
180.000	375.000	15.893	0.632
180.000	380.000	15.939	0.527
180.000	385.000	16.232	0.711
180.000	390.000	16.067	0.790
180.000	395.000	15.408	0.677
180.000	400.000	14.611	0.948
180.000	405.000	15.252	0.780
180.000	410.000	16.049	0.712
180.000	415.000	16.149	0.773
180.000	420.000	15.829	0.889
180.000	425.000	15.682	1.435
180.000	430.000	15.774	1.548
180.000	435.000	15.307	0.665
180.000	440.000	15.170	0.569
180.000	445.000	15.499	0.466
180.000	450.000	14.977	0.474
LINE 190			
190.000	450.000	15.664	0.297
190.000	445.000	15.536	0.358
190.000	440.000	15.508	0.497
190.000	435.000	15.408	0.529
190.000	430.000	15.408	0.496
190.000	425.000	15.261	0.639
190.000	420.000	15.243	0.973
190.000	415.000	15.069	1.017
190.000	410.000	15.060	0.845
190.000	405.000	15.463	0.948
190.000	400.000	15.884	1.493
190.000	395.000	15.216	1.348
190.000	390.000	14.703	0.854
190.000	385.000	15.316	0.622
190.000	380.000	15.903	0.611
190.000	375.000	15.783	0.595
190.000	370.000	15.747	0.554
190.000	365.000	15.847	0.593
190.000	360.000	15.985	0.578
190.000	355.000	15.939	0.628
190.000	350.000	16.003	0.586
190.000	345.000	16.104	0.633
190.000	340.000	16.424	0.690
190.000	335.000	16.067	0.626
190.000	330.000	15.856	0.525
190.000	325.000	16.387	0.505
190.000	320.000	16.626	0.532
190.000	315.000	16.387	0.536
190.000	310.000	15.994	0.573
190.000	305.000	16.534	0.565
190.000	300.000	16.955	0.613
190.000	295.000	16.534	0.615
190.000	290.000	16.177	0.652
190.000	285.000	16.086	0.628
190.000	280.000	16.095	0.602
190.000	275.000	16.012	0.773
190.000	270.000	16.396	0.665
190.000	265.000	16.406	0.677
190.000	260.000	16.076	0.621
190.000	255.000	15.682	0.810
190.000	250.000	16.086	1.003
190.000	245.000	16.470	0.679
190.000	240.000	16.396	0.547
190.000	235.000	16.086	0.490
190.000	230.000	16.323	0.738
190.000	225.000	16.323	0.891
190.000	220.000	16.570	0.839
190.000	215.000	16.552	0.986
190.000	210.000	16.873	1.039
190.000	205.000	17.111	1.074
190.000	200.000	17.175	0.801
190.000	195.000	17.028	0.580
190.000	190.000	16.800	0.485
190.000	185.000	16.626	0.606
190.000	180.000	16.845	0.626
190.000	175.000	16.946	0.518
190.000	170.000	16.671	0.492
190.000	165.000	17.166	0.512
190.000	160.000	17.395	0.569
190.000	155.000	17.202	0.575
190.000	150.000	16.681	0.543
190.000	145.000	16.946	0.457
190.000	140.000	17.221	0.591
190.000	135.000	17.477	0.696
190.000	130.000	16.974	0.602
190.000	125.000	16.744	0.597
190.000	120.000	17.212	0.654
190.000	115.000	17.074	0.760
190.000	110.000	16.818	0.619
190.000	105.000	17.101	0.659
190.000	100.000	15.847	0.659
190.000	95.000	16.149	0.707
LINE 200			
200.000	95.000	16.479	0.509
200.000	100.000	16.314	0.444
200.000	105.000	16.195	0.347
200.000	110.000	15.426	0.764
200.000	115.000	15.783	0.580
200.000	120.000	16.552	0.542
200.000	125.000	17.138	0.749
200.000	130.000	17.175	0.790
200.000	135.000	16.918	0.814
200.000	140.000	17.056	0.705
200.000	145.000	17.148	0.777
200.000	150.000	17.001	0.576
200.000	155.000	16.955	0.683
200.000	160.000	17.019	0.571
200.000	165.000	17.101	0.683
200.000	170.000	16.864	0.749
200.000	175.000	17.038	0.617
200.000	180.000	16.965	0.571
200.000	185.000	16.726	0.586
200.000	190.000	16.626	0.657
200.000	195.000	16.635	0.633
200.000	200.000	16.387	0.663
200.000	205.000	16.974	0.790
200.000	210.000	17.486	1.095
200.000	215.000	17.440	1.036
200.000	220.000	16.415	0.573
200.000	225.000	16.030	0.632
200.000	230.000	17.028	1.003
200.000	235.000	16.873	1.019
200.000	240.000	15.829	0.861
200.000	245.000	15.966	0.689
200.000	250.000	16.534	0.648
200.000	255.000	16.534	0.670
200.000	260.000	16.443	0.648
200.000	265.000	16.507	0.670

Line	Station	In-Phase	Quad.
200.000	270.000	16.470	0.751
200.000	275.000	16.735	0.659
200.000	280.000	16.406	0.619
200.000	285.000	16.058	0.740
200.000	290.000	16.443	0.685
200.000	295.000	17.047	0.610
200.000	300.000	16.443	0.701
200.000	305.000	16.287	0.565
200.000	310.000	16.351	0.536
200.000	315.000	16.305	0.751
200.000	320.000	16.177	0.663
200.000	325.000	16.323	0.705
200.000	330.000	16.204	0.736
200.000	335.000	15.875	0.622
200.000	340.000	16.131	0.667
200.000	345.000	16.507	0.883
200.000	350.000	16.461	1.027
200.000	355.000	15.646	0.802
200.000	360.000	15.756	0.589
200.000	365.000	15.976	0.740
200.000	370.000	16.104	0.661
200.000	375.000	16.039	0.665
200.000	380.000	15.591	0.700
200.000	385.000	15.600	0.635
200.000	390.000	16.086	0.565
200.000	395.000	15.701	0.567
200.000	400.000	15.170	0.556
200.000	405.000	15.307	0.907
200.000	410.000	15.756	0.913
200.000	415.000	15.600	0.689
200.000	420.000	15.289	0.619
200.000	425.000	15.783	0.661
200.000	430.000	15.792	0.659
200.000	435.000	15.097	0.847
200.000	440.000	14.868	0.852
200.000	445.000	14.959	0.757
200.000	450.000	15.207	0.575
LINE 210			
210.000	450.000	15.435	0.435
210.000	445.000	15.582	0.433
210.000	440.000	15.344	0.426
210.000	435.000	15.188	0.519
210.000	430.000	15.161	0.542
210.000	425.000	15.133	0.505
210.000	420.000	15.372	0.611
210.000	415.000	15.985	2.418
210.000	410.000	16.561	2.339
210.000	405.000	15.994	0.382
210.000	400.000	15.655	0.501
210.000	395.000	15.463	0.466
210.000	390.000	15.207	0.453
210.000	385.000	15.198	0.672
210.000	380.000	15.618	0.644
210.000	375.000	15.655	0.584
210.000	370.000	15.454	0.578
210.000	365.000	15.829	0.665
210.000	360.000	15.692	0.654
210.000	355.000	15.454	0.898
210.000	350.000	15.774	2.136
210.000	345.000	15.976	1.409
210.000	340.000	16.030	0.639
210.000	335.000	16.168	0.755
210.000	330.000	16.369	0.672
210.000	325.000	16.396	0.650
210.000	320.000	16.424	0.591
210.000	315.000	16.726	0.613
210.000	310.000	16.900	0.655
210.000	305.000	16.323	0.874
210.000	300.000	16.296	0.667
210.000	295.000	16.580	0.567
210.000	290.000	16.323	0.661
210.000	285.000	16.131	0.751
210.000	280.000	16.534	0.683
210.000	275.000	16.570	1.003
210.000	270.000	15.738	1.379
210.000	265.000	15.893	0.994
210.000	260.000	16.617	0.565
210.000	255.000	16.708	0.745
210.000	250.000	16.726	1.225
210.000	245.000	16.580	1.585
210.000	240.000	16.461	1.025
210.000	235.000	16.561	0.667
210.000	230.000	16.516	0.714
210.000	225.000	16.387	0.677
210.000	220.000	16.497	0.615
210.000	215.000	16.406	0.799
210.000	210.000	16.378	0.962
210.000	205.000	17.010	0.870
210.000	200.000	17.166	0.758
210.000	195.000	16.800	0.661
210.000	190.000	16.305	0.549
210.000	185.000	16.507	0.474
210.000	180.000	16.900	0.540
210.000	175.000	16.864	0.564
210.000	170.000	16.937	0.518
210.000	165.000	16.965	0.569
210.000	160.000	16.781	0.881
210.000	155.000	16.735	0.881
210.000	150.000	17.038	1.332
210.000	145.000	17.212	1.387
210.000	140.000	17.175	0.760
210.000	135.000	17.111	0.540
210.000	130.000	17.358	0.582
210.000	125.000	17.202	0.760
210.000	120.000	17.230	0.711
210.000	115.000	17.038	1.084
210.000	110.000	16.561	0.931
210.000	105.000	16.095	0.584
210.000	100.000	16.854	0.624
LINE 220			
220.000	100.000	16.140	0.744
220.000	105.000	16.333	0.696
220.000	110.000	15.710	0.933
220.000	115.000	15.765	1.330
220.000	120.000	16.305	3.340
220.000	125.000	16.965	3.733
220.000	130.000	16.195	2.844
220.000	135.000	17.257	3.323
220.000	140.000	17.440	0.896
220.000	145.000	17.395	0.929
220.000	150.000	17.111	0.848
220.000	155.000	16.617	0.543
220.000	160.000	16.754	1.567
220.000	165.000	16.690	1.870
220.000	170.000	16.635	0.894
220.000	175.000	16.800	0.898
220.000	180.000	17.047	0.848
220.000	185.000	17.074	0.667
220.000	190.000	16.726	0.878
220.000	195.000	16.488	0.915
220.000	200.000	16.598	0.861
220.000	205.000	16.104	1.334

Line	Station	In-Phase	Quad.
220.000	210.000	15.893	1.209
220.000	215.000	15.884	1.649
220.000	220.000	15.454	1.192
220.000	225.000	15.536	1.043
220.000	230.000	15.903	0.797
220.000	235.000	16.095	0.709
220.000	240.000	15.903	0.700
220.000	245.000	15.765	0.949
220.000	250.000	15.856	1.117
220.000	255.000	16.305	0.837
220.000	260.000	16.140	0.714
220.000	265.000	16.260	0.518
220.000	270.000	16.598	1.232
220.000	275.000	16.314	1.727
220.000	280.000	16.818	0.477
220.000	285.000	16.927	0.722
220.000	290.000	16.598	0.766
220.000	295.000	16.488	0.543
220.000	300.000	16.763	0.565
220.000	305.000	16.744	0.492
220.000	310.000	16.589	0.617
220.000	315.000	16.470	0.779
220.000	320.000	16.443	0.628
220.000	325.000	16.763	0.716
220.000	330.000	16.534	0.637
220.000	335.000	16.323	0.578
220.000	340.000	16.195	0.615
220.000	345.000	16.003	0.641
220.000	350.000	16.168	0.527
220.000	355.000	16.617	0.538
220.000	360.000	16.204	0.604
220.000	365.000	15.856	0.804
220.000	370.000	15.692	1.041
220.000	375.000	15.865	0.516
220.000	380.000	16.039	0.516
220.000	385.000	16.058	0.633
220.000	390.000	15.847	0.740
220.000	395.000	15.481	0.496
220.000	400.000	14.868	0.492
220.000	405.000	14.694	1.249
220.000	410.000	15.271	0.637
220.000	415.000	15.243	0.584
220.000	420.000	15.234	0.624
220.000	425.000	15.271	0.486
220.000	430.000	14.822	0.461
220.000	435.000	14.859	0.588
220.000	440.000	14.676	0.633
220.000	445.000	14.630	0.633
220.000	450.000	15.097	0.466
LINE 230			
230.000	450.000	14.959	0.437
230.000	445.000	14.977	0.475
230.000	440.000	14.584	0.516
230.000	435.000	14.611	0.477
230.000	430.000	14.721	0.516
230.000	425.000	14.859	0.725
230.000	420.000	15.042	0.775
230.000	415.000	15.490	1.194
230.000	410.000	15.042	0.817
230.000	405.000	15.014	0.499
230.000	400.000	15.490	0.676
230.000	395.000	15.261	0.565
230.000	390.000	15.234	0.466
230.000	385.000	15.325	0.514
230.000	380.000	15.573	0.532
230.000	375.000	15.765	0.463
230.000	370.000	16.168	0.595
230.000	365.000	16.507	0.654
230.000	360.000	16.213	0.632
230.000	355.000	15.930	0.982
230.000	350.000	16.781	0.435
230.000	345.000	16.918	0.527
230.000	340.000	16.580	0.578
230.000	335.000	16.617	0.551
230.000	330.000	16.278	0.593
230.000	325.000	16.589	0.604
230.000	320.000	16.927	0.492
230.000	315.000	16.845	0.542
230.000	310.000	16.708	0.532
230.000	305.000	17.038	0.514
230.000	300.000	17.056	0.531
230.000	295.000	16.434	0.479
230.000	290.000	16.424	0.485
230.000	285.000	16.570	0.468
230.000	280.000	17.074	0.464
230.000	275.000	17.166	0.536
230.000	270.000	17.550	0.472
230.000	265.000	17.202	0.615
230.000	260.000	16.287	0.589
230.000	255.000	16.360	0.536
230.000	250.000	16.791	0.452
230.000	245.000	16.754	0.435
230.000	240.000	16.104	0.626
230.000	235.000	15.792	0.703
230.000	230.000	15.417	0.650
230.000	225.000	16.131	0.624
230.000	220.000	15.838	0.810
230.000	215.000	15.664	0.722
230.000	210.000	15.353	0.516
230.000	205.000	15.508	0.558
230.000	200.000	15.087	0.573
230.000	195.000	15.390	0.553
230.000	190.000	15.325	0.534
230.000	185.000	15.673	0.665
230.000	180.000	15.628	1.163
230.000	175.000	15.811	0.981
230.000	170.000	16.396	0.755
230.000	165.000	16.488	0.786
230.000	160.000	16.434	1.356
230.000	155.000	17.083	1.032
230.000	150.000	16.497	0.608
230.000	145.000	16.351	0.536
230.000	140.000	16.763	0.707
230.000	135.000	16.690	0.786
230.000	130.000	16.461	0.490
230.000	125.000	16.223	0.531
230.000	120.000	16.314	0.602
230.000	115.000	16.461	0.499
230.000	110.000	15.628	0.863
230.000	105.000	15.792	0.551
230.000	100.000	15.747	0.674
LINE 240			
240.000	245.000	17.468	0.562
240.000	250.000	16.927	1.010
240.000	255.000	16.854	1.519
240.000	260.000	16.818	1.104
240.000	265.000	16.946	0.880
240.000	270.000	16.479	1.130
240.000	275.000	16.516	1.006
240.000	280.000	16.580	0.650
240.000	285.000	16.983	0.667
240.000	290.000	16.791	0.858

Line	Station	In-Phase	Quad.
240.000	295.000	16.424	0.893
240.000	300.000	16.635	0.731
240.000	305.000	16.204	0.644
240.000	310.000	16.076	0.661
240.000	315.000	16.525	0.677
240.000	320.000	16.580	0.823
240.000	325.000	16.378	0.733
240.000	330.000	16.269	0.632
240.000	335.000	16.424	0.920
240.000	340.000	16.726	1.484
240.000	345.000	16.690	0.628
240.000	350.000	16.452	0.477
240.000	355.000	16.369	0.712
240.000	360.000	16.396	0.689
240.000	365.000	16.415	1.262
240.000	370.000	16.479	1.491
240.000	375.000	16.296	1.383
240.000	380.000	16.021	0.876
240.000	385.000	16.012	1.089
240.000	390.000	15.682	0.977
240.000	395.000	15.701	0.768
240.000	400.000	15.353	0.670
240.000	405.000	15.198	0.507
240.000	410.000	14.968	0.483
240.000	415.000	14.703	0.553
240.000	420.000	14.987	0.584
240.000	425.000	15.316	0.549
240.000	430.000	15.170	0.670
240.000	435.000	14.749	1.398
240.000	440.000	14.154	0.654
240.000	445.000	14.272	0.589
240.000	450.000	14.987	0.874
LINE 250			
250.000	450.000	15.435	0.547
250.000	445.000	15.508	0.665
250.000	440.000	15.600	0.736
250.000	435.000	15.170	0.747
250.000	430.000	14.959	0.793
250.000	425.000	15.014	1.163
250.000	420.000	15.161	0.687
250.000	415.000	15.334	0.648
250.000	410.000	14.895	0.788
250.000	405.000	15.024	0.576
250.000	400.000	15.445	0.650
250.000	395.000	15.756	0.646
250.000	390.000	16.003	0.668
250.000	385.000	15.865	0.738
250.000	380.000	15.893	0.677
250.000	375.000	15.939	0.674
250.000	370.000	16.241	0.872
250.000	365.000	16.937	0.786
250.000	360.000	16.461	0.828
250.000	355.000	16.333	0.606
250.000	350.000	16.470	0.464
250.000	345.000	16.626	0.437
250.000	340.000	16.671	0.472
250.000	335.000	16.900	0.450
250.000	330.000	17.083	0.477
250.000	325.000	16.396	0.606
250.000	320.000	15.884	0.536
250.000	315.000	15.948	1.852
250.000	310.000	16.323	1.383
250.000	305.000	16.360	0.428
250.000	300.000	16.003	0.486
250.000	295.000	16.149	0.529
250.000	290.000	15.966	0.674

Line	Station	In-Phase	Quad.
250.000	285.000	15.481	0.637
250.000	280.000	15.408	0.808
250.000	275.000	15.637	0.885
250.000	270.000	16.131	0.745
250.000	265.000	16.516	0.701
250.000	260.000	16.195	0.701
250.000	255.000	15.710	0.731
250.000	250.000	14.941	0.578
250.000	245.000	15.106	0.543
250.000	240.000	15.682	0.635
250.000	235.000	15.289	1.400
250.000	230.000	16.323	0.578
LINE 260			
260.000	170.000	15.792	0.542
260.000	175.000	15.655	0.560
260.000	180.000	15.673	0.516
260.000	185.000	16.104	0.578
260.000	190.000	15.948	0.865
260.000	195.000	15.582	0.885
260.000	200.000	14.428	0.764
260.000	205.000	13.852	0.817
260.000	210.000	12.588	1.955
260.000	215.000	11.352	3.068
260.000	220.000	12.588	2.017
260.000	225.000	15.463	1.589
260.000	230.000	15.976	1.387
260.000	235.000	15.582	0.788
260.000	240.000	15.536	0.883
260.000	245.000	15.454	1.440
260.000	250.000	15.445	0.753
260.000	255.000	15.582	0.468
260.000	260.000	15.719	0.694
260.000	265.000	15.536	0.784
260.000	270.000	15.536	0.593
260.000	275.000	15.664	0.564
260.000	280.000	15.829	0.516
260.000	285.000	15.820	0.556
260.000	290.000	16.058	0.725
260.000	295.000	15.994	0.808
260.000	300.000	15.664	0.823
260.000	305.000	15.655	0.948
260.000	310.000	15.783	0.786
260.000	315.000	15.508	1.102
260.000	320.000	15.408	1.164
260.000	325.000	15.417	1.361
260.000	330.000	15.362	1.139
260.000	335.000	16.021	0.903
260.000	340.000	15.930	0.931
260.000	345.000	16.003	0.725
260.000	350.000	15.976	0.624
260.000	355.000	16.039	0.757
260.000	360.000	16.241	0.729
260.000	365.000	16.434	0.556
260.000	370.000	16.845	0.957
260.000	375.000	16.854	0.621
260.000	380.000	16.177	1.291
260.000	385.000	15.912	0.652
260.000	390.000	16.195	0.982
260.000	395.000	16.076	1.056
260.000	400.000	15.893	0.712
260.000	405.000	15.838	0.817
260.000	410.000	15.903	0.867
260.000	415.000	15.316	0.617
260.000	420.000	15.024	0.626
260.000	425.000	14.914	0.560
260.000	430.000	15.060	0.567

Line	Station	In-Phase	Quad.
260.000	435.000	15.261	0.644
260.000	440.000	15.097	1.104
260.000	445.000	15.271	0.782
260.000	450.000	15.756	0.602
LINE 270			
270.000	450.000	16.232	0.632
270.000	445.000	16.140	0.657
270.000	440.000	15.811	0.648
270.000	435.000	15.417	0.600
270.000	430.000	15.545	0.597
270.000	425.000	15.765	0.668
270.000	420.000	15.463	0.946
270.000	415.000	15.591	0.977
270.000	410.000	15.527	0.870
270.000	405.000	16.039	0.694
270.000	400.000	16.507	0.485
270.000	395.000	16.827	0.407
270.000	390.000	16.754	0.567
270.000	385.000	16.809	0.802
270.000	380.000	17.202	0.575
270.000	375.000	17.322	0.472
270.000	370.000	16.626	0.714
270.000	365.000	16.488	0.723
270.000	360.000	16.378	0.742
270.000	355.000	16.479	0.571
270.000	350.000	16.030	0.428
270.000	345.000	15.976	0.439
270.000	340.000	16.131	0.580
270.000	335.000	16.030	0.639
270.000	330.000	15.875	0.665
270.000	325.000	15.719	0.679
270.000	320.000	15.738	1.335
270.000	315.000	15.582	2.157
270.000	310.000	16.424	0.365
270.000	305.000	16.470	0.496
270.000	300.000	15.316	0.567
270.000	295.000	15.252	0.582
270.000	290.000	15.307	0.757
270.000	285.000	15.372	1.058
270.000	280.000	15.198	1.119
270.000	275.000	14.914	1.334
270.000	270.000	14.822	1.006
270.000	265.000	15.024	0.718
270.000	260.000	15.362	0.883
270.000	255.000	15.399	0.766
270.000	250.000	15.179	0.940
270.000	245.000	15.179	0.990
270.000	240.000	15.637	1.049
270.000	235.000	15.710	0.729
270.000	230.000	15.454	1.308
270.000	225.000	15.912	1.378
270.000	220.000	15.966	2.179
270.000	215.000	16.159	1.106
270.000	210.000	16.012	0.955
270.000	205.000	16.204	0.898
270.000	200.000	15.628	0.650
270.000	195.000	15.527	0.565
270.000	190.000	15.481	0.598
270.000	185.000	15.628	0.738
270.000	180.000	15.646	0.674
270.000	175.000	16.039	0.531
270.000	170.000	16.104	0.613
270.000	165.000	15.719	0.654
270.000	160.000	15.985	0.687
270.000	155.000	16.003	0.626
270.000	150.000	16.003	0.531
270.000	145.000	15.792	0.492
270.000	140.000	15.518	0.580
270.000	135.000	15.939	0.549
270.000	130.000	16.122	0.622
270.000	125.000	15.710	0.814
270.000	120.000	15.051	1.052
270.000	115.000	12.853	1.936
270.000	110.000	12.185	2.048
270.000	105.000	14.080	1.069
270.000	100.000	16.561	0.652
270.000	95.000	16.836	0.610
270.000	90.000	16.424	0.630
270.000	85.000	16.882	0.615
270.000	80.000	17.596	0.613
270.000	75.000	17.230	0.667
270.000	70.000	16.479	0.674
270.000	65.000	16.387	0.576
270.000	60.000	16.873	0.586
270.000	55.000	17.294	0.606
270.000	50.000	16.937	0.694
270.000	45.000	17.514	0.543
270.000	40.000	17.843	0.584
270.000	35.000	17.632	0.663
270.000	30.000	17.157	0.821
270.000	25.000	17.532	0.694
270.000	20.000	17.496	0.859
270.000	15.000	17.001	0.676
270.000	10.000	17.111	0.731
270.000	5.000	16.974	1.464
270.000	0.000	17.148	1.196
LINE 280			
280.000	0.000	17.221	0.490
280.000	5.000	17.266	0.497
280.000	10.000	17.001	0.837
280.000	15.000	16.516	1.497
280.000	20.000	16.754	0.948
280.000	25.000	16.891	1.495
280.000	30.000	16.983	1.604
280.000	35.000	17.303	0.889
280.000	40.000	16.891	2.107
280.000	45.000	16.387	1.221
280.000	50.000	16.516	0.847
280.000	55.000	17.266	1.137
280.000	60.000	17.074	1.091
280.000	65.000	16.351	0.725
280.000	70.000	16.149	0.466
280.000	75.000	16.434	1.039
280.000	80.000	15.847	2.256
280.000	85.000	15.701	1.330
280.000	90.000	15.820	0.685
280.000	95.000	16.067	0.801
280.000	100.000	16.021	0.758
280.000	105.000	16.021	0.562
280.000	110.000	15.921	1.056
280.000	115.000	15.838	0.948
280.000	120.000	16.003	0.718
280.000	125.000	16.049	1.148
280.000	130.000	15.921	1.727
280.000	135.000	16.131	0.876
280.000	140.000	16.443	0.630
280.000	145.000	16.186	0.698
280.000	150.000	15.847	0.698
280.000	155.000	15.939	0.646
280.000	160.000	15.682	0.801
280.000	165.000	16.067	0.837
280.000	170.000	16.580	0.510

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
280.000	175.000	16.900	1.115	290.000	405.000	17.074	1.379
280.000	180.000	16.946	0.946	290.000	400.000	16.965	0.523
280.000	185.000	16.708	0.681	290.000	395.000	18.081	0.588
280.000	190.000	16.122	0.856	290.000	390.000	17.944	0.602
280.000	195.000	15.682	0.755	290.000	385.000	17.202	0.654
280.000	200.000	16.177	0.667	290.000	380.000	16.937	0.553
280.000	205.000	16.644	0.685	290.000	375.000	17.001	0.628
280.000	210.000	16.278	1.190	290.000	370.000	17.752	0.635
280.000	215.000	15.930	0.709	290.000	365.000	18.301	0.531
280.000	220.000	15.783	0.589	290.000	360.000	17.999	0.595
280.000	225.000	16.617	0.486	290.000	355.000	16.836	0.549
280.000	230.000	16.580	0.477	290.000	350.000	14.602	0.494
280.000	235.000	15.372	0.488	290.000	345.000	15.399	0.332
280.000	240.000	14.776	0.516	290.000	340.000	15.930	0.486
280.000	245.000	15.060	0.650	290.000	335.000	15.829	0.553
280.000	250.000	14.932	0.841	290.000	330.000	15.582	0.486
280.000	255.000	14.850	1.207	290.000	325.000	15.573	0.529
280.000	260.000	14.914	0.771	290.000	320.000	15.261	0.492
280.000	265.000	14.794	0.714	290.000	315.000	15.334	0.527
280.000	270.000	14.657	0.733	290.000	310.000	14.895	0.426
280.000	275.000	14.520	0.626	290.000	305.000	14.373	0.591
280.000	280.000	14.721	0.575	290.000	300.000	14.685	0.648
280.000	285.000	14.676	0.687	290.000	295.000	14.227	0.690
280.000	290.000	14.639	0.681	290.000	290.000	14.886	0.667
280.000	295.000	14.685	0.670	290.000	285.000	14.977	0.597
280.000	300.000	14.236	0.736	290.000	280.000	15.243	0.621
280.000	305.000	14.556	0.446	290.000	275.000	15.252	0.646
280.000	310.000	14.831	0.402	290.000	270.000	15.316	0.659
280.000	315.000	15.362	1.133	290.000	265.000	15.087	0.683
280.000	320.000	15.042	0.365	290.000	260.000	14.877	0.657
280.000	325.000	14.840	0.437	290.000	255.000	14.730	0.883
280.000	330.000	14.611	0.404	290.000	250.000	15.353	0.635
280.000	335.000	14.941	0.826	290.000	245.000	15.280	0.582
280.000	340.000	15.417	0.345	290.000	240.000	15.179	0.709
280.000	345.000	15.582	0.418	290.000	235.000	14.648	0.780
280.000	350.000	14.850	0.600	290.000	230.000	14.620	0.727
280.000	355.000	15.225	0.714	290.000	225.000	15.097	0.744
280.000	360.000	16.086	0.510	290.000	220.000	15.701	0.788
280.000	365.000	16.516	0.576	290.000	215.000	15.280	0.786
280.000	370.000	16.543	1.326	290.000	210.000	14.941	0.661
280.000	375.000	16.104	1.034	290.000	205.000	15.454	0.630
280.000	380.000	15.847	0.707	290.000	200.000	16.021	0.551
280.000	385.000	16.644	0.760	290.000	195.000	15.903	0.610
280.000	390.000	16.946	1.214	290.000	190.000	15.454	0.665
280.000	395.000	16.534	1.155	290.000	185.000	15.142	0.685
280.000	400.000	16.507	0.902	290.000	180.000	15.573	0.639
280.000	405.000	16.342	1.159	290.000	175.000	16.186	0.604
280.000	410.000	16.653	0.644	290.000	170.000	16.168	0.595
280.000	415.000	16.543	0.701	290.000	165.000	15.682	0.610
280.000	420.000	15.719	0.850	290.000	160.000	15.536	0.622
280.000	425.000	15.216	0.937	290.000	155.000	15.664	0.745
280.000	430.000	15.417	0.894	290.000	150.000	15.903	0.703
280.000	435.000	15.600	0.714	290.000	145.000	16.030	0.757
280.000	440.000	15.609	0.986	290.000	140.000	16.204	0.626
280.000	445.000	14.868	1.047	290.000	135.000	16.360	0.621
280.000	450.000	16.131	0.606	290.000	130.000	16.836	0.536
LINE 290				290.000	125.000	17.239	0.543
290.000	450.000	15.729	0.595	290.000	120.000	17.129	0.598
290.000	445.000	15.655	0.597	290.000	115.000	16.845	0.586
290.000	440.000	15.234	0.619	290.000	110.000	17.047	0.619
290.000	435.000	15.655	0.749	290.000	105.000	16.039	0.959
290.000	430.000	15.692	0.722	290.000	100.000	16.012	0.694
290.000	425.000	16.104	0.652	290.000	95.000	15.271	1.176
290.000	420.000	16.021	0.995	290.000	90.000	14.987	1.401
290.000	415.000	15.774	1.069	290.000	85.000	15.701	1.365
290.000	410.000	16.269	0.814	290.000	80.000	15.738	0.815

Line	Station	In-Phase	Quad.
290.000	75.000	15.655	0.753
290.000	70.000	15.426	1.014
290.000	65.000	15.618	1.124
290.000	60.000	15.829	0.960
290.000	55.000	16.104	1.385
290.000	50.000	16.012	1.565
290.000	45.000	16.058	1.703
290.000	40.000	15.783	1.183
290.000	35.000	16.122	1.218
290.000	30.000	16.635	0.992
290.000	25.000	16.434	0.955
290.000	20.000	16.314	0.997
290.000	15.000	16.095	1.100
290.000	10.000	16.140	1.528
290.000	5.000	16.186	1.475
290.000	0.000	16.671	0.861
LINE 300			
300.000	0.000	16.269	0.648
300.000	5.000	16.387	0.676
300.000	10.000	16.149	1.218
300.000	15.000	16.543	1.084
300.000	20.000	16.644	0.801
300.000	25.000	16.617	0.733
300.000	30.000	16.543	0.744
300.000	35.000	16.552	0.909
300.000	40.000	16.516	1.218
300.000	45.000	16.561	0.900
300.000	50.000	16.305	0.953
300.000	55.000	15.957	0.955
300.000	60.000	16.305	0.984
300.000	65.000	16.159	1.232
300.000	70.000	15.985	1.098
300.000	75.000	16.140	0.745
300.000	80.000	16.195	0.762
300.000	85.000	15.856	0.782
300.000	90.000	15.829	0.964
300.000	95.000	15.903	1.003
300.000	100.000	16.195	0.725
300.000	105.000	15.966	0.887
300.000	110.000	15.655	1.212
300.000	115.000	15.719	0.953
300.000	120.000	16.030	0.938
300.000	125.000	15.994	0.885
300.000	130.000	16.443	0.815
300.000	135.000	16.681	0.905
300.000	140.000	15.939	0.900
300.000	145.000	15.646	0.926
300.000	150.000	16.140	1.023
300.000	155.000	16.534	0.802
300.000	160.000	16.470	0.903
300.000	165.000	16.140	0.867
300.000	170.000	16.287	0.887
300.000	175.000	16.104	1.041
300.000	180.000	16.039	0.916
300.000	185.000	16.278	0.824
300.000	190.000	15.930	0.782
300.000	195.000	15.912	1.201
300.000	200.000	15.875	1.006
300.000	205.000	15.060	1.106
300.000	210.000	14.740	0.994
300.000	215.000	14.959	1.038
300.000	220.000	15.115	0.937
300.000	225.000	14.904	1.192
300.000	230.000	14.813	1.084
300.000	235.000	14.602	1.343
300.000	240.000	14.685	0.984
300.000	245.000	14.923	0.924
300.000	250.000	14.575	0.801
300.000	255.000	14.419	0.839
300.000	260.000	14.611	0.874
300.000	265.000	14.620	0.852
300.000	270.000	14.904	0.703
300.000	275.000	14.685	0.907
300.000	280.000	14.401	1.016
300.000	285.000	14.520	0.716
300.000	290.000	14.493	0.773
300.000	295.000	14.538	0.727
300.000	300.000	14.703	0.749
300.000	305.000	14.712	1.534
300.000	310.000	14.639	1.565
300.000	315.000	14.566	0.736
300.000	320.000	14.584	1.098
300.000	325.000	14.758	0.979
300.000	330.000	15.243	0.677
300.000	335.000	15.399	0.720
300.000	340.000	15.097	0.843
300.000	345.000	15.985	0.744
300.000	350.000	16.690	0.643
300.000	355.000	15.692	0.676
300.000	360.000	15.948	0.749
300.000	365.000	16.552	0.869
300.000	370.000	17.019	0.970
300.000	375.000	18.447	0.795
300.000	380.000	19.638	0.810
300.000	385.000	19.079	0.926
300.000	390.000	17.697	0.819
300.000	395.000	17.440	0.731
300.000	400.000	17.569	0.764
300.000	405.000	17.413	0.729
300.000	410.000	17.092	1.089
300.000	415.000	16.873	1.330
300.000	420.000	17.257	0.826
300.000	425.000	16.763	0.926
300.000	430.000	17.074	0.758
300.000	435.000	17.120	0.723
300.000	440.000	16.918	0.676
300.000	445.000	16.369	0.735
300.000	450.000	17.532	0.723
LINE 180: SEAD-45			
500.000	180.000	28.390	0.790
510.000	180.000	25.735	1.144
520.000	180.000	25.012	1.526
530.000	180.000	22.897	3.638
540.000	180.000	13.531	2.520
550.000	180.000	19.299	2.090
560.000	180.000	19.537	2.938
570.000	180.000	17.596	2.985
580.000	180.000	17.266	2.113
590.000	180.000	18.466	1.910
600.000	180.000	18.896	1.605
610.000	180.000	18.832	2.859
620.000	180.000	16.140	3.640
630.000	180.000	15.692	2.024
640.000	180.000	20.315	0.988
650.000	180.000	20.132	1.894
660.000	180.000	18.274	1.359
670.000	180.000	18.475	1.662
680.000	180.000	18.915	1.356
690.000	180.000	18.182	2.636
700.000	180.000	17.733	1.751
710.000	180.000	17.614	1.977

Line	Station	In-Phase	Quad.
720.000	180.000	18.493	3.301
730.000	180.000	18.163	1.967
740.000	180.000	20.297	1.383
750.000	180.000	20.269	0.387
760.000	180.000	21.624	1.243
770.000	180.000	20.379	1.589
780.000	180.000	19.876	2.328
790.000	180.000	19.537	3.165
800.000	180.000	20.590	0.123
LINE 190			
800.000	190.000	20.846	0.055
790.000	190.000	21.396	0.492
780.000	190.000	20.828	1.993
770.000	190.000	21.624	3.283
760.000	190.000	21.853	1.021
750.000	190.000	21.762	0.676
740.000	190.000	21.258	0.499
730.000	190.000	20.278	0.850
720.000	190.000	18.933	0.896
710.000	190.000	17.074	1.322
700.000	190.000	17.770	3.450
690.000	190.000	17.578	2.693
680.000	190.000	18.741	1.850
670.000	190.000	19.079	1.778
660.000	190.000	18.090	3.849
650.000	190.000	18.841	1.967
640.000	190.000	21.368	3.564
630.000	190.000	19.225	1.727
620.000	190.000	17.706	2.237
610.000	190.000	16.699	1.547
600.000	190.000	18.823	1.264
590.000	190.000	18.466	1.389
580.000	190.000	16.232	3.176
570.000	190.000	17.907	2.791
560.000	190.000	17.926	2.056
550.000	190.000	19.290	2.298
540.000	190.000	19.509	1.833
530.000	190.000	13.009	2.386
520.000	190.000	23.858	5.622
510.000	190.000	23.483	3.375
500.000	190.000	25.909	1.786
LINE 390			
490.000	390.000	25.021	0.867
500.000	390.000	20.608	2.609
510.000	390.000	24.700	1.973
520.000	390.000	33.490	1.852
530.000	390.000	37.600	1.177
540.000	390.000	27.703	1.907
550.000	390.000	27.795	1.541
560.000	390.000	32.272	1.352
570.000	390.000	41.995	2.148
580.000	390.000	49.502	3.331
590.000	390.000	50.244	5.679
600.000	390.000	50.070	4.529
610.000	390.000	52.002	4.088
620.000	390.000	49.850	5.084
630.000	390.000	51.132	5.916
640.000	390.000	53.686	4.821
650.000	390.000	53.082	5.565
660.000	390.000	58.337	6.006
670.000	390.000	65.085	6.135
680.000	390.000	63.949	5.973
690.000	390.000	64.993	5.850
700.000	390.000	65.881	5.383
710.000	390.000	67.327	6.772
720.000	390.000	65.753	5.146
730.000	390.000	59.637	4.224
740.000	390.000	53.512	5.628
750.000	390.000	47.644	3.663
760.000	390.000	43.542	1.304
770.000	390.000	43.066	1.741
780.000	390.000	48.440	1.107
790.000	390.000	51.251	1.786
800.000	390.000	57.440	2.372
LINE 400			
800.000	400.000	38.763	1.176
790.000	400.000	37.078	1.473
780.000	400.000	30.963	1.214
770.000	400.000	28.967	0.595
760.000	400.000	29.150	0.905
750.000	400.000	29.131	1.545
740.000	400.000	27.402	3.079
730.000	400.000	28.152	2.269
720.000	400.000	29.141	1.609
710.000	400.000	27.374	3.972
700.000	400.000	28.116	2.524
690.000	400.000	27.731	2.629
680.000	400.000	27.712	2.993
670.000	400.000	27.365	2.969
660.000	400.000	29.068	4.303
650.000	400.000	30.304	3.090
640.000	400.000	27.374	3.391
630.000	400.000	26.989	3.266
620.000	400.000	29.305	4.137
610.000	400.000	31.695	3.693
600.000	400.000	32.565	3.605
590.000	400.000	30.578	3.689
580.000	400.000	32.693	2.713
570.000	400.000	33.590	2.193
560.000	400.000	32.794	1.760
550.000	400.000	33.087	1.565
540.000	400.000	25.588	0.784
530.000	400.000	23.309	1.826
520.000	400.000	27.649	1.609
510.000	400.000	25.314	4.441
500.000	400.000	20.654	4.815
490.000	400.000	19.702	3.693
LINE 410			
490.000	410.000	25.936	2.280
500.000	410.000	21.697	2.792
510.000	410.000	21.450	2.732
520.000	410.000	22.128	1.949
530.000	410.000	24.490	1.932
540.000	410.000	23.245	2.838
550.000	410.000	20.974	2.947
560.000	410.000	29.635	1.718
570.000	410.000	29.965	4.843
580.000	410.000	27.886	2.261
590.000	410.000	26.733	3.342
600.000	410.000	27.063	3.364
610.000	410.000	27.319	2.881
620.000	410.000	26.861	4.145
630.000	410.000	24.389	2.763
640.000	410.000	23.373	4.307
650.000	410.000	26.760	3.577
660.000	410.000	26.156	1.978
670.000	410.000	24.728	2.021
680.000	410.000	24.737	2.552
690.000	410.000	26.046	3.116
700.000	410.000	26.614	2.355
710.000	410.000	25.461	2.653
720.000	410.000	26.907	2.673

Line	Station	In-Phase	Quad.
730.000	410.000	28.262	1.265
740.000	410.000	28.262	1.901
750.000	410.000	28.335	1.210
760.000	410.000	28.711	4.115
770.000	410.000	33.727	3.230
780.000	410.000	35.266	2.517
790.000	410.000	36.456	3.353
800.000	410.000	42.462	2.221
LINE 420			
800.000	420.000	116.345	3.719
790.000	420.000	93.072	3.142
780.000	420.000	120.593	3.641
770.000	420.000	112.280	3.147
760.000	420.000	96.579	3.002
750.000	420.000	80.099	2.695
740.000	420.000	71.127	2.412
730.000	420.000	62.649	2.449
720.000	420.000	49.667	3.077
710.000	420.000	39.761	3.415
700.000	420.000	32.830	2.544
690.000	420.000	27.639	2.987
680.000	420.000	23.620	2.589
670.000	420.000	21.276	2.434
660.000	420.000	19.592	2.732
650.000	420.000	21.880	2.541
640.000	420.000	21.716	2.662
630.000	420.000	22.860	2.445
620.000	420.000	21.542	2.440
610.000	420.000	21.157	2.144
600.000	420.000	20.508	2.798
590.000	420.000	20.818	2.522
580.000	420.000	21.496	2.155
570.000	420.000	23.245	2.217
560.000	420.000	23.281	1.892
550.000	420.000	24.289	1.532
540.000	420.000	21.203	2.517
530.000	420.000	22.091	1.765
520.000	420.000	22.915	1.822
510.000	420.000	22.082	1.773
500.000	420.000	22.806	1.681
490.000	420.000	22.522	1.787
480.000	420.000	26.138	3.037
LINE 430			
480.000	430.000	28.051	0.810
490.000	430.000	21.542	3.895
500.000	430.000	20.160	2.006
510.000	430.000	21.725	1.357
520.000	430.000	21.359	1.865
530.000	430.000	22.879	4.251
540.000	430.000	22.879	1.991
550.000	430.000	20.278	6.271
560.000	430.000	25.021	4.804
570.000	430.000	20.590	3.408
580.000	430.000	22.320	3.680
590.000	430.000	18.255	3.996
600.000	430.000	17.212	4.529
610.000	430.000	21.405	2.693
620.000	430.000	22.531	2.193
630.000	430.000	21.807	2.570
640.000	430.000	22.650	4.347
650.000	430.000	20.370	3.285
660.000	430.000	19.033	2.712
670.000	430.000	20.498	2.243
680.000	430.000	23.501	2.656
690.000	430.000	31.814	1.749
700.000	430.000	46.993	2.278
710.000	430.000	61.688	2.011
720.000	430.000	77.224	2.302
730.000	430.000	69.296	2.993
740.000	430.000	60.864	2.311
750.000	430.000	14.035	0.933
760.000	430.000	24.554	1.183
770.000	430.000	70.880	4.887
780.000	430.000	105.432	4.053
790.000	430.000	106.329	4.198
800.000	430.000	87.396	4.400
LINE 440			
800.000	440.000	36.694	1.435
790.000	440.000	36.603	1.594
780.000	440.000	39.056	1.712
770.000	440.000	43.633	1.927
760.000	440.000	43.881	2.454
750.000	440.000	44.375	3.022
740.000	440.000	44.284	2.408
730.000	440.000	44.961	3.669
720.000	440.000	47.113	2.785
710.000	440.000	46.966	2.938
700.000	440.000	39.468	2.656
690.000	440.000	32.757	2.028
680.000	440.000	23.364	2.230
670.000	440.000	17.697	1.894
660.000	440.000	19.519	3.485
650.000	440.000	18.548	2.528
640.000	440.000	17.239	3.950
630.000	440.000	16.424	2.125
620.000	440.000	17.743	2.309
610.000	440.000	20.251	2.616
600.000	440.000	15.710	3.125
590.000	440.000	13.659	2.423
580.000	440.000	17.257	2.673
570.000	440.000	22.512	2.067
560.000	440.000	23.116	1.457
550.000	440.000	14.437	1.521
540.000	440.000	15.646	1.604
530.000	440.000	22.485	1.462
520.000	440.000	21.954	3.783
510.000	440.000	20.718	2.039
500.000	440.000	20.306	5.135
490.000	440.000	21.460	2.917
480.000	440.000	30.001	-1.085
LINE 450			
480.000	450.000	20.782	6.190
490.000	450.000	24.930	1.025
500.000	450.000	19.711	2.052
510.000	450.000	19.244	2.113
520.000	450.000	20.581	2.125
530.000	450.000	22.522	1.964
540.000	450.000	24.435	3.167
550.000	450.000	20.334	1.958
560.000	450.000	20.599	1.398
570.000	450.000	22.165	3.206
580.000	450.000	21.945	4.077
590.000	450.000	19.189	2.976
600.000	450.000	17.788	2.668
610.000	450.000	19.354	2.383
620.000	450.000	19.848	2.045
630.000	450.000	19.198	2.884
640.000	450.000	18.072	2.835
650.000	450.000	17.788	2.144
660.000	450.000	16.827	1.793
670.000	450.000	18.750	2.491
680.000	450.000	19.042	2.611

Line	Station	In-Phase	Quad.
690.000	450.000	20.224	2.458
700.000	450.000	21.780	2.359
710.000	450.000	23.327	2.050
720.000	450.000	26.541	3.537
730.000	450.000	27.264	1.984
740.000	450.000	27.218	1.789
750.000	450.000	26.953	1.920
760.000	450.000	29.004	1.403
770.000	450.000	24.682	1.442
780.000	450.000	23.565	1.635
790.000	450.000	25.900	1.491
800.000	450.000	24.856	1.240
LINE 460			
800.000	460.000	21.954	0.751
790.000	460.000	21.615	1.264
780.000	460.000	21.560	0.955
770.000	460.000	21.981	1.488
760.000	460.000	21.368	1.229
750.000	460.000	21.542	1.065
740.000	460.000	20.480	1.155
730.000	460.000	20.654	2.291
720.000	460.000	20.700	4.391
710.000	460.000	19.399	2.304
700.000	460.000	18.850	2.313
690.000	460.000	17.660	2.372
680.000	460.000	17.230	2.331
670.000	460.000	17.953	1.879
660.000	460.000	16.662	2.010
650.000	460.000	16.396	2.052
640.000	460.000	19.912	1.510
630.000	460.000	19.061	2.017
620.000	460.000	18.722	2.100
610.000	460.000	20.526	2.090
600.000	460.000	18.896	2.085
590.000	460.000	19.418	1.918
580.000	460.000	20.233	1.683
570.000	460.000	20.727	2.460
560.000	460.000	21.103	1.736
550.000	460.000	20.379	1.596
540.000	460.000	18.576	1.633
530.000	460.000	23.016	1.560
520.000	460.000	22.054	1.238
510.000	460.000	21.981	1.569
500.000	460.000	20.269	1.791
490.000	460.000	19.638	1.622
480.000	460.000	25.378	2.350
LINE 470			
480.000	470.000	24.600	1.515
490.000	470.000	22.549	1.804
500.000	470.000	21.652	1.436
510.000	470.000	22.393	0.962
520.000	470.000	23.272	0.856
530.000	470.000	22.961	1.523
540.000	470.000	23.337	1.903
550.000	470.000	21.166	2.067
560.000	470.000	18.145	4.431
570.000	470.000	21.432	2.285
580.000	470.000	20.040	3.171
590.000	470.000	19.821	2.318
600.000	470.000	18.942	1.855
610.000	470.000	18.832	2.721
620.000	470.000	20.645	1.958
630.000	470.000	19.134	2.102
640.000	470.000	17.056	1.830
650.000	470.000	17.779	1.784
660.000	470.000	16.204	1.609
670.000	470.000	16.021	3.105
680.000	470.000	15.747	1.934
690.000	470.000	16.424	2.769
700.000	470.000	17.596	2.585
710.000	470.000	17.971	1.576
720.000	470.000	19.409	5.282
730.000	470.000	19.629	2.952
740.000	470.000	20.141	1.231
750.000	470.000	20.535	0.970
760.000	470.000	20.361	1.027
770.000	470.000	20.745	1.719
780.000	470.000	21.075	0.740
790.000	470.000	22.009	1.927
800.000	470.000	23.647	0.395
LINE 480			
800.000	480.000	21.148	0.667
790.000	480.000	21.213	0.661
780.000	480.000	20.965	0.437
770.000	480.000	20.169	1.622
760.000	480.000	19.583	1.063
750.000	480.000	18.777	0.735
740.000	480.000	19.052	3.044
730.000	480.000	19.464	0.953
720.000	480.000	17.028	1.879
710.000	480.000	17.275	1.640
700.000	480.000	15.829	1.932
690.000	480.000	14.667	2.192
680.000	480.000	14.145	2.482
670.000	480.000	15.390	2.090
660.000	480.000	17.999	1.469
650.000	480.000	18.365	1.802
640.000	480.000	16.946	1.078
630.000	480.000	18.576	1.747
620.000	480.000	18.768	1.681
610.000	480.000	19.006	1.784
600.000	480.000	17.596	1.633
590.000	480.000	17.898	2.015
580.000	480.000	19.033	1.536
570.000	480.000	19.867	1.458
560.000	480.000	22.128	1.495
550.000	480.000	17.028	1.795
540.000	480.000	19.665	1.293
530.000	480.000	23.675	0.672
520.000	480.000	24.444	0.887
510.000	480.000	23.776	1.124
500.000	480.000	20.791	1.526
490.000	480.000	19.803	2.912
480.000	480.000	23.538	2.337
LINE 0			
0.000	0.000	19.839	0.124
10.000	0.000	19.812	0.038
20.000	0.000	20.334	0.110
30.000	0.000	19.930	0.082
40.000	0.000	20.287	0.014
50.000	0.000	19.647	0.117
60.000	0.000	20.727	0.071
70.000	0.000	21.798	0.012
80.000	0.000	22.311	-0.029
90.000	0.000	20.379	0.229
100.000	0.000	17.623	0.295
110.000	0.000	19.125	0.385
120.000	0.000	20.846	0.055
130.000	0.000	21.349	0.073
140.000	0.000	21.048	0.080
150.000	0.000	21.276	0.135
160.000	0.000	21.002	0.135

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
170.000	0.000	20.590	0.437	790.000	10.000	18.942	0.119
180.000	0.000	20.352	0.224	780.000	10.000	18.356	0.167
190.000	0.000	20.443	0.181	770.000	10.000	18.310	0.145
200.000	0.000	21.377	0.157	760.000	10.000	18.777	0.165
210.000	0.000	20.883	0.172	750.000	10.000	17.010	0.290
220.000	0.000	21.597	0.152	740.000	10.000	17.697	0.058
230.000	0.000	20.123	0.352	730.000	10.000	17.550	0.101
240.000	0.000	20.287	0.235	720.000	10.000	17.376	0.214
250.000	0.000	20.370	0.042	710.000	10.000	17.761	0.275
260.000	0.000	20.590	0.101	700.000	10.000	17.303	0.327
270.000	0.000	20.004	0.255	690.000	10.000	17.999	0.194
280.000	0.000	19.821	0.345	680.000	10.000	18.182	0.209
290.000	0.000	21.286	0.282	670.000	10.000	18.420	0.170
300.000	0.000	21.697	0.205	660.000	10.000	18.612	0.185
310.000	0.000	21.753	0.112	650.000	10.000	18.054	0.373
320.000	0.000	22.210	0.080	640.000	10.000	17.148	0.385
330.000	0.000	20.287	0.632	630.000	10.000	18.832	0.430
340.000	0.000	15.042	1.850	620.000	10.000	18.228	0.049
350.000	0.000	19.070	1.038	610.000	10.000	18.191	0.159
360.000	0.000	17.825	0.622	600.000	10.000	19.125	0.384
370.000	0.000	17.541	0.850	590.000	10.000	17.642	0.512
380.000	0.000	17.853	0.797	580.000	10.000	15.600	0.485
390.000	0.000	17.715	0.843	570.000	10.000	17.605	0.758
400.000	0.000	18.558	0.955	560.000	10.000	17.605	0.540
410.000	0.000	19.042	0.795	550.000	10.000	15.994	1.356
420.000	0.000	20.718	0.207	540.000	10.000	16.012	1.508
430.000	0.000	21.570	0.152	530.000	10.000	15.289	1.732
440.000	0.000	20.077	0.474	520.000	10.000	14.282	2.033
450.000	0.000	20.325	0.332	510.000	10.000	16.058	1.784
460.000	0.000	21.286	0.218	500.000	10.000	14.932	1.982
470.000	0.000	21.368	0.156	490.000	10.000	15.372	1.859
480.000	0.000	20.910	0.027	480.000	10.000	18.402	0.836
490.000	0.000	17.962	1.006	470.000	10.000	21.057	0.317
500.000	0.000	15.756	1.697	460.000	10.000	20.910	0.293
510.000	0.000	16.177	1.315	450.000	10.000	21.084	0.341
520.000	0.000	16.525	1.534	440.000	10.000	20.828	0.238
530.000	0.000	16.662	1.605	430.000	10.000	19.647	0.911
540.000	0.000	17.294	1.076	420.000	10.000	18.887	1.085
550.000	0.000	16.873	0.916	410.000	10.000	19.143	1.556
560.000	0.000	18.777	0.417	400.000	10.000	14.556	2.050
570.000	0.000	17.651	0.472	390.000	10.000	14.648	1.765
580.000	0.000	18.814	0.529	380.000	10.000	18.685	1.446
590.000	0.000	18.850	0.266	370.000	10.000	19.006	0.893
600.000	0.000	18.182	0.391	360.000	10.000	19.537	0.981
610.000	0.000	18.274	0.167	350.000	10.000	18.694	0.999
620.000	0.000	19.189	0.170	340.000	10.000	19.491	0.723
630.000	0.000	18.219	0.084	330.000	10.000	19.519	0.703
640.000	0.000	18.859	0.251	320.000	10.000	21.240	0.551
650.000	0.000	19.042	0.141	310.000	10.000	21.707	0.435
660.000	0.000	18.741	0.178	300.000	10.000	21.340	0.350
670.000	0.000	18.539	0.157	290.000	10.000	21.093	0.328
680.000	0.000	18.264	0.134	280.000	10.000	19.326	0.626
690.000	0.000	17.614	0.213	270.000	10.000	19.702	0.545
700.000	0.000	17.175	0.115	260.000	10.000	19.564	0.262
710.000	0.000	17.816	0.119	250.000	10.000	19.592	0.497
720.000	0.000	17.990	0.115	240.000	10.000	19.436	0.554
730.000	0.000	17.990	0.128	230.000	10.000	19.354	0.512
740.000	0.000	17.166	0.198	220.000	10.000	20.663	0.385
750.000	0.000	17.761	0.115	210.000	10.000	20.388	0.350
760.000	0.000	18.090	0.135	200.000	10.000	21.194	0.200
770.000	0.000	18.191	0.137	190.000	10.000	21.093	0.358
780.000	0.000	18.603	0.163	180.000	10.000	21.460	0.398
790.000	0.000	18.191	0.123	170.000	10.000	20.581	0.330
800.000	0.000	18.502	0.132	160.000	10.000	19.290	0.314
NE 10				150.000	10.000	19.921	0.191
800.000	10.000	18.612	0.214	140.000	10.000	21.011	0.407

Line	Station	In-Phase	Quad.
130.000	10.000	19.482	0.255
120.000	10.000	18.420	0.584
110.000	10.000	17.376	1.258
100.000	10.000	17.889	0.698
90.000	10.000	20.553	0.033
80.000	10.000	22.045	0.121
70.000	10.000	17.358	1.286
60.000	10.000	13.128	1.688
50.000	10.000	22.952	0.290
40.000	10.000	21.560	0.246
30.000	10.000	20.645	0.297
20.000	10.000	19.171	0.347
10.000	10.000	19.354	0.251
0.000	10.000	19.977	0.192
LINE 20			
0.000	20.000	19.756	0.339
10.000	20.000	19.711	0.509
20.000	20.000	19.528	0.464
30.000	20.000	20.919	0.273
40.000	20.000	18.676	0.854
50.000	20.000	18.567	0.753
60.000	20.000	17.376	1.491
70.000	20.000	18.072	1.109
80.000	20.000	16.396	1.240
90.000	20.000	-3.726	11.377
100.000	20.000	-0.851	9.793
110.000	20.000	23.217	-1.141
120.000	20.000	19.583	0.369
130.000	20.000	19.427	0.290
140.000	20.000	19.830	0.301
150.000	20.000	20.700	0.328
160.000	20.000	20.480	0.407
170.000	20.000	20.645	0.428
180.000	20.000	21.560	0.358
190.000	20.000	23.016	0.354
200.000	20.000	23.346	0.345
210.000	20.000	23.400	0.308
220.000	20.000	22.585	0.428
230.000	20.000	21.349	0.389
240.000	20.000	19.903	0.389
250.000	20.000	19.409	0.507
260.000	20.000	19.519	0.464
270.000	20.000	20.947	0.218
280.000	20.000	21.057	0.189
290.000	20.000	21.899	0.198
300.000	20.000	19.977	0.973
310.000	20.000	20.700	0.894
320.000	20.000	19.921	0.740
330.000	20.000	18.301	0.975
340.000	20.000	20.141	1.019
350.000	20.000	20.050	0.953
360.000	20.000	19.033	1.071
370.000	20.000	20.691	1.119
380.000	20.000	18.447	1.468
390.000	20.000	17.715	1.359
400.000	20.000	14.703	2.296
410.000	20.000	13.009	2.434
420.000	20.000	13.238	2.271
430.000	20.000	15.051	1.741
440.000	20.000	18.511	1.096
450.000	20.000	21.652	0.222
460.000	20.000	21.048	0.341
470.000	20.000	21.103	0.420
480.000	20.000	20.370	0.597
490.000	20.000	18.200	1.306
500.000	20.000	16.213	1.927
510.000	20.000	17.038	1.852
520.000	20.000	16.131	2.057
530.000	20.000	16.387	2.124
540.000	20.000	15.628	2.241
550.000	20.000	14.282	2.074
560.000	20.000	15.710	1.567
570.000	20.000	18.859	0.779
580.000	20.000	18.008	0.762
590.000	20.000	18.136	0.801
600.000	20.000	17.166	0.668
610.000	20.000	17.843	0.670
620.000	20.000	18.841	0.488
630.000	20.000	18.090	0.529
640.000	20.000	18.868	0.499
650.000	20.000	18.466	0.615
660.000	20.000	17.587	0.663
670.000	20.000	18.447	0.384
680.000	20.000	19.061	0.384
690.000	20.000	18.090	0.485
700.000	20.000	17.505	0.461
710.000	20.000	18.017	0.369
720.000	20.000	18.621	0.402
730.000	20.000	17.880	0.380
740.000	20.000	17.733	0.363
750.000	20.000	17.853	0.437
760.000	20.000	18.511	0.373
770.000	20.000	18.081	0.393
780.000	20.000	17.770	0.306
790.000	20.000	18.356	0.365
800.000	20.000	18.301	0.233
LINE 30			
800.000	30.000	19.042	0.262
790.000	30.000	19.546	0.281
780.000	30.000	19.436	0.323
770.000	30.000	19.299	0.295
760.000	30.000	17.843	0.490
750.000	30.000	17.999	0.387
740.000	30.000	17.221	0.523
730.000	30.000	17.816	0.494
720.000	30.000	18.264	0.339
710.000	30.000	18.274	0.485
700.000	30.000	17.505	0.363
690.000	30.000	17.679	0.463
680.000	30.000	17.752	0.483
670.000	30.000	16.827	0.633
660.000	30.000	19.921	0.459
650.000	30.000	19.143	0.393
640.000	30.000	19.308	0.556
630.000	30.000	18.658	0.610
620.000	30.000	18.017	0.630
610.000	30.000	18.374	0.757
600.000	30.000	14.355	1.074
590.000	30.000	15.051	0.920
580.000	30.000	15.490	0.773
570.000	30.000	17.074	0.869
560.000	30.000	18.136	0.972
550.000	30.000	14.822	2.006
540.000	30.000	15.729	1.868
530.000	30.000	15.463	1.719
520.000	30.000	16.882	1.381
510.000	30.000	17.065	1.824
500.000	30.000	16.131	2.050
490.000	30.000	17.028	2.043
480.000	30.000	22.430	0.492
470.000	30.000	19.482	1.168
460.000	30.000	14.987	1.850

Line	Station	In-Phase	Quad.
450.000	30.000	22.933	0.306
440.000	30.000	21.157	0.804
430.000	30.000	20.608	1.363
420.000	30.000	12.900	3.090
410.000	30.000	14.959	2.316
400.000	30.000	16.589	1.857
390.000	30.000	17.376	1.831
380.000	30.000	16.443	2.113
370.000	30.000	19.290	1.475
360.000	30.000	20.361	1.135
350.000	30.000	19.262	1.003
340.000	30.000	19.116	1.122
330.000	30.000	20.022	1.124
320.000	30.000	19.125	1.017
310.000	30.000	16.946	1.649
300.000	30.000	17.907	1.762
290.000	30.000	17.275	1.778
280.000	30.000	17.413	1.960
270.000	30.000	9.219	3.331
260.000	30.000	18.621	0.786
250.000	30.000	21.551	0.444
240.000	30.000	20.022	0.692
230.000	30.000	19.244	0.461
220.000	30.000	25.158	0.536
210.000	30.000	36.575	0.317
200.000	30.000	42.599	0.404
190.000	30.000	44.183	0.374
180.000	30.000	37.472	0.260
170.000	30.000	23.272	0.518
160.000	30.000	20.160	0.560
150.000	30.000	20.508	0.519
140.000	30.000	19.244	0.507
130.000	30.000	19.848	0.433
120.000	30.000	20.242	0.492
110.000	30.000	21.029	0.466
100.000	30.000	20.178	0.435
90.000	30.000	17.715	1.322
80.000	30.000	21.396	0.503
70.000	30.000	15.811	2.070
60.000	30.000	19.857	0.773
50.000	30.000	23.382	0.613
40.000	30.000	21.295	1.264
30.000	30.000	16.086	0.400
20.000	30.000	21.359	0.532
10.000	30.000	19.839	0.714
0.000	30.000	20.224	0.723
LINE 40			
0.000	40.000	21.084	0.786
10.000	40.000	16.140	1.644
20.000	40.000	20.040	0.937
30.000	40.000	20.434	0.837
40.000	40.000	21.075	0.670
50.000	40.000	22.879	0.633
60.000	40.000	20.498	1.163
70.000	40.000	17.422	1.659
80.000	40.000	17.706	1.514
90.000	40.000	12.222	4.167
100.000	40.000	17.248	0.896
110.000	40.000	18.310	0.826
120.000	40.000	19.061	0.821
130.000	40.000	19.143	0.683
140.000	40.000	20.077	0.529
150.000	40.000	19.473	0.562
160.000	40.000	19.015	0.486
170.000	40.000	20.132	0.797
180.000	40.000	36.483	0.571

Line	Station	In-Phase	Quad.
190.000	40.000	62.402	0.474
200.000	40.000	72.693	0.378
210.000	40.000	58.264	0.569
220.000	40.000	46.737	0.663
230.000	40.000	18.210	0.968
240.000	40.000	19.399	0.852
250.000	40.000	22.485	0.650
260.000	40.000	-2.563	7.948
270.000	40.000	3.112	5.067
280.000	40.000	12.268	3.509
290.000	40.000	15.207	2.871
300.000	40.000	16.965	1.773
310.000	40.000	13.806	2.282
320.000	40.000	15.060	2.798
330.000	40.000	19.848	1.504
340.000	40.000	20.104	1.170
350.000	40.000	20.251	0.992
360.000	40.000	17.422	1.403
370.000	40.000	15.426	2.094
380.000	40.000	17.953	1.308
390.000	40.000	17.230	1.706
400.000	40.000	17.385	2.135
410.000	40.000	16.470	2.249
420.000	40.000	13.980	3.039
430.000	40.000	14.593	3.000
440.000	40.000	16.937	2.113
450.000	40.000	13.668	2.842
460.000	40.000	15.344	1.839
470.000	40.000	22.018	0.946
480.000	40.000	17.688	2.204
490.000	40.000	16.754	1.833
500.000	40.000	17.953	1.931
510.000	40.000	16.754	1.881
520.000	40.000	16.561	2.287
530.000	40.000	14.694	2.697
540.000	40.000	15.445	2.368
550.000	40.000	15.316	2.287
560.000	40.000	17.898	1.635
570.000	40.000	15.729	1.528
580.000	40.000	17.395	1.106
590.000	40.000	17.614	1.133
600.000	40.000	14.840	1.060
610.000	40.000	13.696	1.177
620.000	40.000	15.939	1.240
630.000	40.000	16.955	1.045
640.000	40.000	18.511	0.729
650.000	40.000	19.015	0.738
660.000	40.000	19.052	0.648
670.000	40.000	18.493	0.571
680.000	40.000	19.528	0.628
690.000	40.000	16.955	0.865
700.000	40.000	16.726	0.661
710.000	40.000	17.779	0.564
720.000	40.000	18.090	0.753
730.000	40.000	18.090	0.396
740.000	40.000	17.395	0.543
750.000	40.000	17.413	0.692
760.000	40.000	18.109	0.659
770.000	40.000	18.420	0.687
780.000	40.000	19.253	0.613
790.000	40.000	17.990	0.624
800.000	40.000	17.614	0.578
LINE 50			
800.000	50.000	18.365	0.654
790.000	50.000	17.816	0.690
780.000	50.000	18.210	0.646

Line	Station	In-Phase	Quad.
770.000	50.000	18.558	0.637
760.000	50.000	17.715	0.630
750.000	50.000	18.072	0.606
740.000	50.000	17.935	0.659
730.000	50.000	17.724	0.632
720.000	50.000	17.422	0.685
710.000	50.000	15.765	0.903
700.000	50.000	17.907	0.677
690.000	50.000	19.446	0.733
680.000	50.000	19.079	0.700
670.000	50.000	19.216	1.067
660.000	50.000	17.853	1.019
650.000	50.000	18.045	1.028
640.000	50.000	17.642	1.339
630.000	50.000	14.373	1.512
620.000	50.000	13.549	1.534
610.000	50.000	15.490	1.514
600.000	50.000	15.774	1.310
590.000	50.000	15.618	1.435
580.000	50.000	16.992	1.264
570.000	50.000	17.569	1.249
560.000	50.000	18.694	0.964
550.000	50.000	18.484	1.229
540.000	50.000	15.655	1.843
530.000	50.000	16.452	2.340
520.000	50.000	12.936	3.279
510.000	50.000	16.791	2.081
500.000	50.000	18.081	2.002
490.000	50.000	17.248	2.440
480.000	50.000	16.095	2.285
470.000	50.000	21.588	0.995
460.000	50.000	25.113	0.817
450.000	50.000	22.668	0.931
440.000	50.000	19.052	1.695
430.000	50.000	18.548	1.865
420.000	50.000	16.809	2.916
410.000	50.000	18.511	1.383
400.000	50.000	21.148	1.512
390.000	50.000	18.475	1.425
380.000	50.000	16.543	1.692
370.000	50.000	16.827	1.929
360.000	50.000	15.555	2.539
350.000	50.000	20.489	1.126
340.000	50.000	21.222	1.560
330.000	50.000	18.951	1.820
320.000	50.000	16.204	3.140
310.000	50.000	15.573	2.982
300.000	50.000	17.880	1.901
290.000	50.000	20.325	2.598
280.000	50.000	12.689	3.867
270.000	50.000	10.739	3.976
260.000	50.000	9.768	4.248
250.000	50.000	22.247	0.723
240.000	50.000	21.460	0.968
230.000	50.000	19.583	0.949
220.000	50.000	22.961	0.404
210.000	50.000	26.980	0.290
200.000	50.000	28.417	0.275
190.000	50.000	27.374	0.622
180.000	50.000	24.115	0.751
170.000	50.000	20.910	0.935
160.000	50.000	19.491	0.479
150.000	50.000	19.528	1.319
140.000	50.000	19.656	0.848
130.000	50.000	18.685	1.076
120.000	50.000	18.274	1.427

Line	Station	In-Phase	Quad.
110.000	50.000	19.281	1.038
100.000	50.000	18.292	1.087
90.000	50.000	16.223	2.318
80.000	50.000	16.882	1.876
70.000	50.000	20.526	0.894
60.000	50.000	19.262	1.102
50.000	50.000	20.224	1.098
40.000	50.000	13.018	2.497
30.000	50.000	15.261	2.291
20.000	50.000	14.071	1.800
10.000	50.000	14.968	2.079
0.000	50.000	15.847	2.576
LINE 60			
0.000	60.000	19.317	2.171
10.000	60.000	18.072	2.127
20.000	60.000	15.033	1.106
30.000	60.000	21.258	1.047
40.000	60.000	21.661	0.880
50.000	60.000	22.924	0.782
60.000	60.000	19.171	1.275
70.000	60.000	18.521	1.203
80.000	60.000	18.036	1.198
90.000	60.000	17.632	1.368
100.000	60.000	17.669	1.376
110.000	60.000	18.484	1.082
120.000	60.000	17.926	1.321
130.000	60.000	18.301	1.119
140.000	60.000	18.154	0.975
150.000	60.000	17.376	1.330
160.000	60.000	18.933	0.992
170.000	60.000	21.029	0.727
180.000	60.000	21.148	0.655
190.000	60.000	19.940	1.558
200.000	60.000	7.617	5.442
210.000	60.000	13.678	3.597
220.000	60.000	10.968	4.477
230.000	60.000	17.404	1.479
240.000	60.000	21.276	0.736
250.000	60.000	21.349	0.927
260.000	60.000	23.483	0.902
270.000	60.000	26.587	0.551
280.000	60.000	22.119	2.719
290.000	60.000	11.544	5.053
300.000	60.000	17.715	1.686
310.000	60.000	16.635	2.214
320.000	60.000	15.765	2.647
330.000	60.000	15.445	2.875
LINE 70			
330.000	70.000	11.929	2.669
320.000	70.000	17.505	2.837
310.000	70.000	21.331	2.063
300.000	70.000	22.641	1.993
290.000	70.000	20.654	1.888
280.000	70.000	5.529	3.292
270.000	70.000	12.982	2.164
260.000	70.000	10.968	3.300
250.000	70.000	20.947	1.243
240.000	70.000	23.483	0.863
230.000	70.000	21.734	1.032
220.000	70.000	19.583	1.993
210.000	70.000	3.085	6.550
200.000	70.000	10.629	4.182
190.000	70.000	11.984	3.939
180.000	70.000	20.315	0.701
170.000	70.000	19.921	0.933
160.000	70.000	19.354	0.977

Line	Station	In-Phase	Quad.
150.000	70.000	19.821	0.931
140.000	70.000	19.446	0.973
130.000	70.000	19.949	0.933
120.000	70.000	20.059	1.028
110.000	70.000	18.859	1.243
100.000	70.000	17.770	1.201
90.000	70.000	18.292	1.146
80.000	70.000	20.233	0.907
70.000	70.000	21.249	0.869
60.000	70.000	20.425	1.049
50.000	70.000	21.817	1.131
40.000	70.000	14.328	2.269
30.000	70.000	17.688	1.550
20.000	70.000	20.892	0.635
10.000	70.000	14.108	2.024
0.000	70.000	16.342	2.451
LINE 80			
0.000	80.000	9.237	2.265
10.000	80.000	10.263	1.119
20.000	80.000	20.938	-0.183
30.000	80.000	18.814	1.348
40.000	80.000	18.027	1.635
50.000	80.000	19.189	1.440
60.000	80.000	23.135	0.464
70.000	80.000	23.025	0.163
80.000	80.000	18.603	0.424
90.000	80.000	20.956	0.292
100.000	80.000	19.134	0.407
110.000	80.000	19.573	0.475
120.000	80.000	19.693	0.389
130.000	80.000	19.225	0.393
140.000	80.000	21.066	0.317
150.000	80.000	20.654	0.176
160.000	80.000	20.141	0.290
170.000	80.000	20.297	0.229
180.000	80.000	21.166	0.202
190.000	80.000	19.519	0.716
200.000	80.000	19.784	0.790
210.000	80.000	22.091	-0.056
220.000	80.000	23.492	-0.071
230.000	80.000	23.144	0.005
240.000	80.000	22.595	0.409
250.000	80.000	24.563	0.354
260.000	80.000	20.892	0.999
270.000	80.000	24.536	2.124
280.000	80.000	-9.905	3.118
290.000	80.000	31.650	0.782
300.000	80.000	26.724	0.861
310.000	80.000	26.156	0.966
320.000	80.000	23.410	0.931
330.000	80.000	21.340	1.607
LINE 90			
330.000	90.000	23.318	2.256
320.000	90.000	24.472	1.074
310.000	90.000	14.914	0.990
300.000	90.000	13.678	1.335
290.000	90.000	34.570	3.476
280.000	90.000	59.756	6.557
270.000	90.000	-68.335	3.391
260.000	90.000	41.226	3.634
250.000	90.000	32.583	0.415
240.000	90.000	26.385	0.703
230.000	90.000	19.253	1.556
220.000	90.000	19.079	1.385
210.000	90.000	17.632	1.299
200.000	90.000	18.896	0.711
190.000	90.000	20.654	0.317
180.000	90.000	21.496	0.360
170.000	90.000	20.306	0.466
160.000	90.000	20.287	0.382
150.000	90.000	21.240	0.189
140.000	90.000	20.654	0.367
130.000	90.000	19.079	0.453
120.000	90.000	19.546	0.415
110.000	90.000	18.969	0.470
100.000	90.000	18.759	0.477
90.000	90.000	21.908	0.121
80.000	90.000	14.154	0.990
70.000	90.000	19.225	0.799
60.000	90.000	24.810	0.440
50.000	90.000	20.151	1.754
40.000	90.000	16.434	-0.051
30.000	90.000	15.325	0.885
20.000	90.000	22.467	0.194
10.000	90.000	22.677	0.214
0.000	90.000	22.412	0.134
LINE 100			
0.000	100.000	21.002	0.404
10.000	100.000	21.276	0.457
20.000	100.000	20.800	0.264
30.000	100.000	22.228	0.257
40.000	100.000	23.968	0.345
50.000	100.000	19.098	0.850
60.000	100.000	18.054	-0.422
70.000	100.000	21.359	0.814
80.000	100.000	17.578	0.832
90.000	100.000	17.806	0.431
100.000	100.000	19.656	0.339
110.000	100.000	19.198	0.477
120.000	100.000	19.573	0.371
130.000	100.000	20.114	0.259
140.000	100.000	19.830	0.271
150.000	100.000	20.251	0.288
160.000	100.000	21.075	0.442
170.000	100.000	20.745	0.273
180.000	100.000	20.755	0.306
190.000	100.000	21.368	0.282
200.000	100.000	17.422	1.412
210.000	100.000	15.921	1.977
220.000	100.000	14.575	2.368
230.000	100.000	16.387	2.528
240.000	100.000	19.290	1.815
250.000	100.000	24.453	0.964
260.000	100.000	34.469	0.784
270.000	100.000	54.684	4.643
280.000	100.000	-84.631	-1.214
290.000	100.000	71.584	4.957
300.000	100.000	26.523	2.938
310.000	100.000	18.905	3.377
320.000	100.000	19.766	2.186
330.000	100.000	25.799	1.177
LINE 110			
330.000	110.000	25.314	1.615
320.000	110.000	22.686	2.337
310.000	110.000	21.194	2.923
300.000	110.000	29.443	2.796
290.000	110.000	64.324	8.147
280.000	110.000	-92.797	-3.856
270.000	110.000	12.405	5.159
260.000	110.000	42.810	7.052
250.000	110.000	34.899	1.765
240.000	110.000	26.925	1.931

Line	Station	In-Phase	Quad.
230.000	110.000	20.846	2.563
220.000	110.000	16.671	2.855
210.000	110.000	16.168	2.364
200.000	110.000	20.471	1.017
190.000	110.000	20.581	0.861
180.000	110.000	21.744	0.248
170.000	110.000	21.670	0.189
160.000	110.000	21.093	0.170
150.000	110.000	20.526	0.110
140.000	110.000	20.782	0.148
130.000	110.000	21.002	0.227
120.000	110.000	19.729	0.483
110.000	110.000	18.530	0.679
100.000	110.000	20.791	0.101
90.000	110.000	21.029	0.203
80.000	110.000	20.663	0.238
70.000	110.000	22.567	0.170
60.000	110.000	22.348	0.349
50.000	110.000	19.308	0.538
40.000	110.000	25.543	-0.075
30.000	110.000	24.756	0.178
20.000	110.000	16.873	1.299
10.000	110.000	16.754	1.308
0.000	110.000	15.252	1.242
LINE 120			
0.000	120.000	16.177	1.135
10.000	120.000	16.955	1.291
20.000	120.000	15.701	1.119
30.000	120.000	21.176	0.349
40.000	120.000	20.508	0.823
50.000	120.000	18.210	1.322
60.000	120.000	16.369	1.956
70.000	120.000	19.436	0.801
80.000	120.000	21.771	0.143
90.000	120.000	20.471	0.282
100.000	120.000	19.958	0.178
110.000	120.000	20.992	0.211
120.000	120.000	21.194	0.290
130.000	120.000	21.615	0.270
140.000	120.000	20.837	0.244
150.000	120.000	21.798	0.117
160.000	120.000	21.551	0.174
170.000	120.000	21.688	0.233
180.000	120.000	21.826	0.430
190.000	120.000	20.892	0.931
200.000	120.000	18.612	2.447
210.000	120.000	17.679	2.315
220.000	120.000	17.587	2.668
230.000	120.000	18.163	3.450
240.000	120.000	22.054	2.974
250.000	120.000	27.181	2.013
260.000	120.000	32.327	2.633
270.000	120.000	60.736	5.255
280.000	120.000	-16.012	1.078
290.000	120.000	-11.700	4.788
300.000	120.000	31.878	4.589
310.000	120.000	23.931	3.608
320.000	120.000	24.930	1.741
330.000	120.000	25.809	1.265
LINE 130			
320.000	130.000	25.973	1.372
310.000	130.000	24.636	2.030
300.000	130.000	42.901	3.040
290.000	130.000	75.503	6.963
280.000	130.000	-92.797	-5.760
270.000	130.000	95.178	9.786
260.000	130.000	78.699	4.632
250.000	130.000	51.709	3.537
240.000	130.000	51.772	3.004
230.000	130.000	41.857	3.827
220.000	130.000	34.378	3.559
210.000	130.000	36.950	2.493
200.000	130.000	24.490	1.888
190.000	130.000	25.552	0.867
180.000	130.000	23.053	0.694
170.000	130.000	21.972	0.578
160.000	130.000	21.688	0.323
150.000	130.000	21.496	0.117
140.000	130.000	21.963	0.308
130.000	130.000	19.949	0.418
120.000	130.000	20.800	0.600
110.000	130.000	17.193	0.916
100.000	130.000	19.537	0.448
90.000	130.000	18.814	0.503
80.000	130.000	21.359	0.347
70.000	130.000	22.696	0.148
60.000	130.000	19.629	0.499
50.000	130.000	11.178	1.824
40.000	130.000	14.410	2.013
30.000	130.000	21.075	0.418
20.000	130.000	23.666	0.036
10.000	130.000	24.646	0.023
0.000	130.000	22.906	0.310
LINE 140			
0.000	140.000	25.030	0.078
10.000	140.000	26.751	-0.205
20.000	140.000	25.470	-0.018
30.000	140.000	24.087	0.053
40.000	140.000	24.042	-0.053
50.000	140.000	24.005	0.022
60.000	140.000	23.419	0.031
70.000	140.000	21.991	0.106
80.000	140.000	20.297	0.073
90.000	140.000	18.475	0.775
100.000	140.000	19.519	0.191
110.000	140.000	20.022	0.519
120.000	140.000	19.528	0.959
130.000	140.000	18.731	1.071
140.000	140.000	20.178	0.448
150.000	140.000	21.450	0.519
160.000	140.000	20.608	0.630
170.000	140.000	20.242	0.837
180.000	140.000	21.249	0.740
190.000	140.000	26.147	0.654
200.000	140.000	37.207	3.748
210.000	140.000	47.818	5.745
220.000	140.000	73.746	3.895
230.000	140.000	77.179	4.801
240.000	140.000	85.629	5.517
250.000	140.000	92.596	5.720
260.000	140.000	93.640	8.534
270.000	140.000	115.310	12.310
280.000	140.000	121.719	14.253
290.000	140.000	-92.862	-4.996
300.000	140.000	39.514	3.062
310.000	140.000	32.355	1.793
320.000	140.000	24.023	1.885
LINE 150			
320.000	150.000	25.396	1.481
310.000	150.000	19.390	5.133
300.000	150.000	44.888	2.835
290.000	150.000	69.241	2.748

Line	Station	In-Phase	Quad.
280.000	150.000	-77.938	-1.605
270.000	150.000	107.190	5.387
260.000	150.000	121.536	8.568
250.000	150.000	121.518	11.364
240.000	150.000	121.692	10.148
230.000	150.000	122.186	9.332
220.000	150.000	119.705	10.445
210.000	150.000	88.668	3.281
200.000	150.000	41.592	1.903
190.000	150.000	34.826	0.716
180.000	150.000	23.254	1.085
170.000	150.000	17.834	1.648
160.000	150.000	19.281	1.481
150.000	150.000	18.978	1.356
140.000	150.000	18.200	0.948
130.000	150.000	17.806	0.874
120.000	150.000	18.219	1.021
110.000	150.000	20.654	0.499
100.000	150.000	18.951	0.474
90.000	150.000	19.061	0.378
80.000	150.000	21.871	0.244
70.000	150.000	21.222	0.235
60.000	150.000	21.213	0.299
50.000	150.000	22.778	0.036
40.000	150.000	23.272	0.220
30.000	150.000	17.596	1.255
20.000	150.000	19.399	1.234
10.000	150.000	13.403	1.436
0.000	150.000	14.968	2.227
LINE 160			
0.000	160.000	23.520	0.391
10.000	160.000	10.858	1.359
20.000	160.000	15.591	1.633
30.000	160.000	19.354	2.350
40.000	160.000	15.499	0.630
50.000	160.000	14.456	1.499
60.000	160.000	21.652	-0.014
70.000	160.000	21.615	0.198
80.000	160.000	20.617	0.358
90.000	160.000	19.436	0.281
100.000	160.000	20.068	0.531
110.000	160.000	18.328	0.777
120.000	160.000	18.274	0.418
130.000	160.000	16.434	1.466
140.000	160.000	17.779	1.321
150.000	160.000	18.237	1.280
160.000	160.000	17.926	1.585
170.000	160.000	18.090	1.684
180.000	160.000	18.447	1.622
190.000	160.000	22.686	1.401
200.000	160.000	26.513	1.741
210.000	160.000	29.205	1.776
220.000	160.000	41.427	1.653
230.000	160.000	41.043	6.002
240.000	160.000	53.430	4.387
250.000	160.000	49.164	6.664
260.000	160.000	69.516	5.205
270.000	160.000	90.792	5.859
280.000	160.000	111.648	8.549
290.000	160.000	-1.034	2.212
300.000	160.000	44.220	2.950
310.000	160.000	31.237	1.907
320.000	160.000	24.142	1.690
LINE 170			
320.000	170.000	28.290	0.935
310.000	170.000	29.242	1.808
300.000	170.000	50.976	2.373
290.000	170.000	-0.732	1.830
280.000	170.000	53.338	3.764
270.000	170.000	51.809	3.987
260.000	170.000	39.505	2.544
250.000	170.000	34.909	2.695
240.000	170.000	23.675	4.255
230.000	170.000	19.244	4.025
220.000	170.000	30.285	0.966
210.000	170.000	20.141	3.693
200.000	170.000	18.685	2.280
190.000	170.000	15.042	3.573
180.000	170.000	14.712	2.741
170.000	170.000	16.900	2.079
160.000	170.000	19.638	1.115
150.000	170.000	18.649	1.299
140.000	170.000	20.260	1.115
130.000	170.000	19.116	0.951
120.000	170.000	20.508	0.738
110.000	170.000	21.249	0.305
100.000	170.000	21.405	0.181
90.000	170.000	21.103	0.295
80.000	170.000	21.103	0.238
70.000	170.000	22.476	0.187
60.000	170.000	25.231	0.045
50.000	170.000	23.584	0.213
40.000	170.000	15.417	1.102
30.000	170.000	20.672	0.527
20.000	170.000	26.211	0.132
10.000	170.000	22.284	0.485
0.000	170.000	23.419	0.069
LINE 180			
0.000	180.000	23.877	0.101
10.000	180.000	21.185	0.428
20.000	180.000	17.724	1.010
30.000	180.000	24.362	0.378
40.000	180.000	21.469	0.944
50.000	180.000	17.971	1.631
60.000	180.000	15.637	1.466
70.000	180.000	21.880	0.891
80.000	180.000	18.090	1.212
90.000	180.000	21.048	0.496
100.000	180.000	19.921	0.420
110.000	180.000	19.747	0.415
120.000	180.000	19.903	0.455
130.000	180.000	19.839	0.931
140.000	180.000	18.374	1.218
150.000	180.000	18.576	1.317
160.000	180.000	20.196	0.944
170.000	180.000	20.260	0.878
180.000	180.000	13.971	2.925
190.000	180.000	16.396	1.920
200.000	180.000	21.423	1.109
210.000	180.000	24.178	0.907
220.000	180.000	24.234	1.111
230.000	180.000	29.150	0.595
240.000	180.000	17.404	3.981
250.000	180.000	19.995	5.109
260.000	180.000	33.352	1.964
270.000	180.000	33.792	2.306
280.000	180.000	40.255	2.662
290.000	180.000	28.454	3.007
300.000	180.000	40.521	2.991
310.000	180.000	29.150	1.177
LINE 190			
310.000	190.000	27.740	1.107

Line	Station	In-Phase	Quad.
300.000	190.000	35.000	2.164
290.000	190.000	-1.089	2.373
280.000	190.000	24.453	2.706
270.000	190.000	26.019	3.970
260.000	190.000	23.895	3.031
250.000	190.000	26.770	1.940
240.000	190.000	23.767	3.270
230.000	190.000	26.065	1.719
220.000	190.000	26.413	1.115
210.000	190.000	23.767	0.891
200.000	190.000	23.053	0.545
190.000	190.000	20.086	0.758
180.000	190.000	10.043	3.924
170.000	190.000	13.934	2.498
160.000	190.000	16.149	1.932
150.000	190.000	15.948	1.813
140.000	190.000	16.836	1.378
130.000	190.000	16.030	1.488
120.000	190.000	17.056	1.365
110.000	190.000	16.497	1.458
100.000	190.000	17.449	1.111
90.000	190.000	20.837	0.543
80.000	190.000	19.446	0.439
70.000	190.000	14.813	1.039
60.000	190.000	20.132	0.880
50.000	190.000	26.367	1.392
40.000	190.000	16.909	1.131
30.000	190.000	18.283	1.767
20.000	190.000	17.395	2.046
10.000	190.000	18.264	1.624
0.000	190.000	23.703	0.078
LINE 200			
0.000	200.000	19.967	1.311
10.000	200.000	19.446	1.231
20.000	200.000	18.960	1.275
30.000	200.000	23.428	0.499
40.000	200.000	24.042	0.481
50.000	200.000	24.160	0.626
60.000	200.000	25.433	0.670
70.000	200.000	19.061	1.491
80.000	200.000	16.561	1.039
90.000	200.000	18.612	0.639
100.000	200.000	16.937	1.131
110.000	200.000	14.813	1.675
120.000	200.000	14.355	1.655
130.000	200.000	16.955	1.508
140.000	200.000	16.927	1.754
150.000	200.000	16.296	1.980
160.000	200.000	14.099	2.184
170.000	200.000	14.538	2.473
180.000	200.000	12.204	3.050
190.000	200.000	14.337	2.214
200.000	200.000	21.688	0.654
210.000	200.000	24.536	0.665
220.000	200.000	24.526	1.119
230.000	200.000	27.822	1.447
240.000	200.000	30.184	1.997
250.000	200.000	28.015	3.119
260.000	200.000	23.858	3.380
270.000	200.000	23.602	3.897
280.000	200.000	27.841	3.875
290.000	200.000	32.134	2.677
300.000	200.000	25.845	1.466
310.000	200.000	24.646	2.175
NE 210			
310.000	210.000	27.575	1.639

Line	Station	In-Phase	Quad.
300.000	210.000	31.485	0.949
290.000	210.000	10.235	3.110
280.000	210.000	57.458	3.492
270.000	210.000	54.977	4.573
260.000	210.000	57.303	5.154
250.000	210.000	61.706	5.870
240.000	210.000	53.622	7.237
230.000	210.000	59.371	4.714
220.000	210.000	64.498	1.859
210.000	210.000	51.434	1.299
200.000	210.000	24.618	1.135
190.000	210.000	18.374	1.457
180.000	210.000	15.527	2.353
170.000	210.000	7.306	5.170
160.000	210.000	14.950	2.212
150.000	210.000	15.710	1.989
140.000	210.000	17.248	1.073
130.000	210.000	18.210	1.251
120.000	210.000	15.792	1.297
110.000	210.000	16.992	1.221
100.000	210.000	16.772	0.948
90.000	210.000	17.157	1.128
80.000	210.000	19.033	0.962
70.000	210.000	19.775	1.052
60.000	210.000	19.784	0.509
50.000	210.000	20.983	0.745
40.000	210.000	23.602	0.128
30.000	210.000	24.051	-0.011
20.000	210.000	23.428	0.428
10.000	210.000	22.284	0.753
0.000	210.000	16.570	2.021
LINE 220			
0.000	220.000	15.948	1.798
10.000	220.000	15.966	1.304
20.000	220.000	21.157	1.260
30.000	220.000	16.965	1.576
40.000	220.000	20.718	0.644
50.000	220.000	22.549	0.479
60.000	220.000	18.191	0.461
70.000	220.000	14.831	0.588
80.000	220.000	22.201	0.464
90.000	220.000	18.576	1.262
100.000	220.000	17.541	1.389
110.000	220.000	17.907	1.299
120.000	220.000	17.138	1.501
130.000	220.000	17.349	1.466
140.000	220.000	19.702	1.058
150.000	220.000	16.534	1.809
160.000	220.000	16.314	1.795
170.000	220.000	12.652	3.663
180.000	220.000	9.054	4.152
190.000	220.000	16.278	1.841
200.000	220.000	21.176	1.833
210.000	220.000	19.070	2.054
220.000	220.000	7.416	1.179
230.000	220.000	26.577	1.265
240.000	220.000	59.106	4.834
250.000	220.000	87.954	8.876
260.000	220.000	106.411	8.321
270.000	220.000	120.849	9.494
280.000	220.000	113.022	8.002
290.000	220.000	113.607	4.757
300.000	220.000	32.153	1.802
310.000	220.000	37.261	2.228
LINE 230			
310.000	230.000	41.455	2.607

Line	Station	In-Phase	Quad.
300.000	230.000	-33.682	-4.674
290.000	230.000	-52.148	-5.247
280.000	230.000	121.389	20.004
270.000	230.000	122.891	12.946
260.000	230.000	89.062	10.894
250.000	230.000	66.943	8.977
240.000	230.000	49.850	7.967
230.000	230.000	50.931	3.623
220.000	230.000	49.383	2.653
210.000	230.000	38.708	1.666
200.000	230.000	23.337	1.321
190.000	230.000	19.601	1.883
180.000	230.000	10.299	3.417
170.000	230.000	16.424	2.566
160.000	230.000	19.775	0.655
150.000	230.000	15.673	1.677
140.000	230.000	14.959	1.319
130.000	230.000	16.717	1.786
120.000	230.000	16.516	1.683
110.000	230.000	18.118	1.517
100.000	230.000	19.720	1.141
90.000	230.000	20.077	1.153
80.000	230.000	18.530	1.060
70.000	230.000	20.452	0.870
60.000	230.000	21.597	0.705
50.000	230.000	21.093	0.633
40.000	230.000	22.970	0.560
30.000	230.000	20.471	1.089
20.000	230.000	16.946	1.997
10.000	230.000	18.905	1.403
0.000	230.000	23.419	0.389
LINE 240			
0.000	240.000	22.906	0.540
10.000	240.000	23.556	0.582
20.000	240.000	21.185	0.994
30.000	240.000	20.691	0.828
40.000	240.000	20.562	0.916
50.000	240.000	20.334	0.861
60.000	240.000	20.214	0.758
70.000	240.000	21.176	0.812
80.000	240.000	20.544	0.852
90.000	240.000	20.709	0.880
100.000	240.000	18.731	1.179
110.000	240.000	18.045	1.416
120.000	240.000	17.651	1.635
130.000	240.000	18.210	1.385
140.000	240.000	16.159	2.245
150.000	240.000	16.699	1.721
160.000	240.000	19.473	1.378
170.000	240.000	19.052	1.074
180.000	240.000	18.237	0.891
190.000	240.000	19.986	1.074
200.000	240.000	21.908	1.392
210.000	240.000	25.067	1.424
220.000	240.000	29.187	1.464
230.000	240.000	29.113	2.541
240.000	240.000	30.807	3.450
250.000	240.000	34.057	4.378
260.000	240.000	45.282	5.308
270.000	240.000	56.589	6.420
280.000	240.000	72.363	8.961
290.000	240.000	81.683	9.126
300.000	240.000	-28.216	-4.327
310.000	240.000	44.137	2.373
NE 250			
300.000	250.000	40.127	5.613
290.000	250.000	71.017	9.479
280.000	250.000	48.294	6.405
270.000	250.000	40.686	5.007
260.000	250.000	31.018	3.864
250.000	250.000	30.075	3.178
240.000	250.000	28.811	2.068
230.000	250.000	28.051	1.337
220.000	250.000	25.900	1.122
210.000	250.000	22.815	1.278
200.000	250.000	21.606	1.390
190.000	250.000	20.077	1.664
180.000	250.000	16.342	1.973
170.000	250.000	16.443	1.791
160.000	250.000	16.653	1.082
150.000	250.000	16.067	2.033
140.000	250.000	16.287	1.817
130.000	250.000	16.168	2.024
120.000	250.000	15.682	1.934
110.000	250.000	16.534	2.342
100.000	250.000	18.759	1.468
90.000	250.000	17.733	1.341
80.000	250.000	17.980	1.447
70.000	250.000	20.865	0.990
60.000	250.000	21.093	1.012
50.000	250.000	19.793	0.962
40.000	250.000	19.930	1.054
30.000	250.000	22.183	0.782
20.000	250.000	23.144	0.668
10.000	250.000	21.789	1.010
0.000	250.000	18.457	1.273
LINE 260			
0.000	260.000	18.805	1.729
10.000	260.000	19.683	1.374
20.000	260.000	19.225	1.664
30.000	260.000	17.632	1.510
40.000	260.000	19.949	1.174
50.000	260.000	16.744	1.032
60.000	260.000	19.299	1.729
70.000	260.000	19.784	1.412
80.000	260.000	18.878	1.563
90.000	260.000	18.374	1.446
100.000	260.000	17.797	1.457
110.000	260.000	16.415	1.649
120.000	260.000	15.463	2.063
130.000	260.000	16.470	2.004
140.000	260.000	17.001	1.635
150.000	260.000	16.122	1.993
160.000	260.000	16.681	1.672
170.000	260.000	17.239	1.890
180.000	260.000	17.761	1.975
190.000	260.000	19.693	1.984
200.000	260.000	20.370	2.316
210.000	260.000	23.190	2.125
220.000	260.000	27.007	2.171
230.000	260.000	28.161	2.769
240.000	260.000	29.956	3.015
250.000	260.000	37.335	3.217
260.000	260.000	37.069	4.972
270.000	260.000	45.941	6.081
280.000	260.000	53.723	7.099
290.000	260.000	74.066	9.859
300.000	260.000	-27.255	-3.584
LINE 270			
300.000	270.000	-2.599	-0.999
290.000	270.000	121.783	15.502
280.000	270.000	114.230	12.287

Line	Station	In-Phase	Quad.
270.000	270.000	92.697	9.883
260.000	270.000	74.386	8.860
250.000	270.000	59.344	7.158
240.000	270.000	53.128	4.924
230.000	270.000	41.199	4.071
220.000	270.000	34.789	2.956
210.000	270.000	30.789	2.539
200.000	270.000	23.986	2.004
190.000	270.000	19.857	2.193
180.000	270.000	17.761	2.329
170.000	270.000	17.230	2.182
160.000	270.000	15.765	2.021
150.000	270.000	17.642	1.910
140.000	270.000	17.202	1.898
130.000	270.000	17.715	1.714
120.000	270.000	17.111	2.283
110.000	270.000	17.166	2.223
100.000	270.000	18.768	1.727
90.000	270.000	16.351	1.918
80.000	270.000	21.460	1.216
70.000	270.000	17.999	2.090
60.000	270.000	19.098	2.153
50.000	270.000	18.109	2.263
40.000	270.000	22.110	1.045
30.000	270.000	18.676	1.841
20.000	270.000	19.272	1.574
10.000	270.000	22.943	0.861
0.000	270.000	26.559	0.464
LINE 280			
0.000	280.000	24.911	1.455
10.000	280.000	25.204	0.453
20.000	280.000	18.484	1.398
30.000	280.000	21.853	1.104
40.000	280.000	19.812	1.084
50.000	280.000	17.559	1.466
60.000	280.000	19.995	2.181
70.000	280.000	21.460	1.699
80.000	280.000	17.157	1.166
90.000	280.000	22.045	1.618
100.000	280.000	20.297	1.460
110.000	280.000	16.946	2.054
120.000	280.000	17.166	1.706
130.000	280.000	19.089	1.468
140.000	280.000	18.594	1.458
150.000	280.000	17.349	1.468
160.000	280.000	17.101	1.661
170.000	280.000	17.733	1.688
180.000	280.000	18.008	2.206
190.000	280.000	15.957	2.721
200.000	280.000	19.198	1.703
210.000	280.000	18.118	2.250
220.000	280.000	18.548	2.383
230.000	280.000	17.496	2.436
240.000	280.000	15.472	2.458
250.000	280.000	11.654	1.826
260.000	280.000	4.129	1.221
270.000	280.000	24.609	2.452
280.000	280.000	31.293	2.813
290.000	280.000	37.115	3.083
300.000	280.000	41.116	2.096
LINE 290			
300.000	290.000	19.290	1.721
290.000	290.000	72.921	4.079
280.000	290.000	50.106	3.941
270.000	290.000	47.113	4.433
260.000	290.000	46.756	4.878
250.000	290.000	48.532	4.386
240.000	290.000	48.239	3.469
230.000	290.000	44.568	2.754
220.000	290.000	44.476	2.515
210.000	290.000	29.352	3.509
200.000	290.000	14.941	3.105
190.000	290.000	16.809	0.949
180.000	290.000	18.109	3.079
170.000	290.000	21.276	1.115
160.000	290.000	20.617	1.479
150.000	290.000	18.264	1.357
140.000	290.000	18.942	1.390
130.000	290.000	17.523	1.806
120.000	290.000	16.479	2.045
110.000	290.000	16.800	2.096
100.000	290.000	16.269	2.392
90.000	290.000	19.409	1.675
80.000	290.000	16.396	0.933
70.000	290.000	22.183	1.164
60.000	290.000	21.780	1.067
50.000	290.000	23.007	0.720
40.000	290.000	16.726	1.973
30.000	290.000	20.654	1.844
20.000	290.000	19.079	1.563
10.000	290.000	16.323	1.883
0.000	290.000	19.995	1.541
LINE 330			
310.000	330.000	7.873	-1.080
300.000	330.000	44.366	2.618
290.000	330.000	47.854	4.670
280.000	330.000	33.984	3.360
270.000	330.000	28.692	2.149
260.000	330.000	36.364	2.917
250.000	330.000	51.910	3.594
240.000	330.000	58.575	3.575
230.000	330.000	50.875	2.684
220.000	330.000	34.277	3.647
210.000	330.000	20.370	2.392
200.000	330.000	21.304	1.249
190.000	330.000	19.464	1.865
180.000	330.000	18.384	1.594
170.000	330.000	18.567	1.822
160.000	330.000	17.660	2.254
150.000	330.000	17.175	2.225
140.000	330.000	18.027	1.988
130.000	330.000	18.594	1.765
120.000	330.000	18.200	1.977
110.000	330.000	17.752	1.826
100.000	330.000	17.569	1.339
90.000	330.000	14.712	2.517
80.000	330.000	19.455	1.613
70.000	330.000	18.319	1.978
60.000	330.000	13.980	2.528
50.000	330.000	17.449	1.830
40.000	330.000	21.121	1.337
30.000	330.000	21.002	1.350
20.000	330.000	18.841	1.786
10.000	330.000	22.155	1.288
0.000	330.000	22.842	0.874
LINE 340			
0.000	340.000	18.612	1.418
10.000	340.000	17.367	1.863
20.000	340.000	19.079	1.503
30.000	340.000	18.704	1.920
40.000	340.000	21.349	1.203
50.000	340.000	22.402	1.359

Line	Station	In-Phase	Quad.
60.000	340.000	21.057	1.251
70.000	340.000	20.361	1.488
80.000	340.000	15.078	2.122
90.000	340.000	19.107	1.027
100.000	340.000	16.909	1.627
110.000	340.000	17.990	1.607
120.000	340.000	18.356	1.293
130.000	340.000	20.050	1.286
140.000	340.000	20.160	1.113
150.000	340.000	18.045	1.626
160.000	340.000	17.065	2.030
170.000	340.000	18.741	1.499
180.000	340.000	18.713	1.308
190.000	340.000	20.745	1.260
200.000	340.000	21.002	1.534
210.000	340.000	27.291	2.098
220.000	340.000	33.444	2.487
230.000	340.000	41.427	3.197
240.000	340.000	46.911	3.424
250.000	340.000	50.637	6.074
260.000	340.000	58.868	5.923
270.000	340.000	67.804	7.134
280.000	340.000	79.230	8.953
290.000	340.000	101.037	12.544
300.000	340.000	73.050	7.028
310.000	340.000	-21.011	-5.062
LINE 350			
310.000	350.000	-1.986	-2.787
300.000	350.000	86.480	12.132
290.000	350.000	57.852	8.518
280.000	350.000	42.764	5.266
270.000	350.000	36.044	5.626
260.000	350.000	32.318	3.307
250.000	350.000	24.389	4.332
240.000	350.000	26.742	2.133
230.000	350.000	25.177	2.188
220.000	350.000	24.178	1.418
210.000	350.000	21.634	0.982
200.000	350.000	20.745	0.966
190.000	350.000	20.068	1.141
180.000	350.000	20.077	0.926
170.000	350.000	19.729	1.071
160.000	350.000	17.275	1.815
150.000	350.000	18.667	1.253
140.000	350.000	19.235	1.787
130.000	350.000	15.609	1.784
120.000	350.000	16.589	1.989
110.000	350.000	16.735	1.808
100.000	350.000	17.679	1.782
90.000	350.000	18.896	1.591
80.000	350.000	18.750	1.631
70.000	350.000	18.210	1.216
60.000	350.000	23.794	1.475
50.000	350.000	23.703	1.150
40.000	350.000	19.821	1.984
30.000	350.000	20.919	1.708
20.000	350.000	24.481	2.495
10.000	350.000	21.194	2.039
0.000	350.000	22.247	1.218
LINE 360			
0.000	360.000	19.912	1.451
10.000	360.000	20.892	1.424
20.000	360.000	21.871	1.372
30.000	360.000	23.254	0.986
40.000	360.000	18.072	1.596
50.000	360.000	22.622	0.867
60.000	360.000	25.863	1.107
70.000	360.000	24.399	1.091
80.000	360.000	21.157	1.258
90.000	360.000	22.961	1.144
100.000	360.000	18.283	1.433
110.000	360.000	17.669	1.449
120.000	360.000	16.424	1.760
130.000	360.000	15.756	1.808
140.000	360.000	17.322	2.456
150.000	360.000	17.083	1.819
160.000	360.000	15.701	2.928
170.000	360.000	19.674	1.058
180.000	360.000	18.768	1.626
190.000	360.000	19.656	1.776
200.000	360.000	19.336	1.080
210.000	360.000	19.482	1.223
220.000	360.000	21.762	1.341
230.000	360.000	21.387	1.644
240.000	360.000	24.975	1.427
250.000	360.000	25.561	2.083
260.000	360.000	22.567	4.141
270.000	360.000	24.169	4.861
280.000	360.000	29.443	5.155
290.000	360.000	37.115	6.557
300.000	360.000	59.244	7.546
310.000	360.000	6.921	-1.934
LINE 370			
310.000	370.000	25.287	1.374
300.000	370.000	73.590	9.664
290.000	370.000	58.309	8.485
280.000	370.000	40.329	5.040
270.000	370.000	33.096	4.123
260.000	370.000	28.884	3.564
250.000	370.000	30.597	2.337
240.000	370.000	23.995	2.807
230.000	370.000	21.020	2.124
220.000	370.000	19.052	2.092
210.000	370.000	19.418	2.017
200.000	370.000	18.988	1.479
190.000	370.000	16.113	1.661
180.000	370.000	12.606	2.963
170.000	370.000	9.768	3.950
160.000	370.000	19.509	1.063
150.000	370.000	17.697	1.640
140.000	370.000	16.717	2.072
130.000	370.000	16.149	1.661
120.000	370.000	16.763	1.843
110.000	370.000	16.974	2.122
100.000	370.000	18.704	1.267
90.000	370.000	18.915	1.433
80.000	370.000	18.621	1.394
70.000	370.000	20.764	1.995
60.000	370.000	22.696	2.054
50.000	370.000	17.523	2.936
40.000	370.000	15.097	1.863
30.000	370.000	23.446	0.850
20.000	370.000	18.631	2.706
10.000	370.000	19.363	2.076
0.000	370.000	18.493	1.598
LINE 380			
0.000	380.000	21.002	1.111
10.000	380.000	21.469	1.240
20.000	380.000	21.936	1.844
30.000	380.000	22.613	1.982
40.000	380.000	21.533	1.418
50.000	380.000	21.093	0.995

Line	Station	In-Phase	Quad.
60.000	380.000	19.052	2.021
70.000	380.000	20.114	1.967
80.000	380.000	18.530	1.844
90.000	380.000	20.205	1.427
100.000	380.000	19.006	1.317
110.000	380.000	17.990	1.679
120.000	380.000	17.303	1.653
130.000	380.000	16.854	1.677
140.000	380.000	17.459	1.701
150.000	380.000	18.356	1.433
160.000	380.000	19.061	1.321
170.000	380.000	17.971	1.442
180.000	380.000	12.414	2.949
190.000	380.000	15.976	2.260
200.000	380.000	14.538	2.662
210.000	380.000	17.761	2.306
220.000	380.000	17.990	2.239
230.000	380.000	21.396	2.342
240.000	380.000	30.679	2.247
250.000	380.000	41.253	2.682
260.000	380.000	48.321	3.165
270.000	380.000	56.323	5.209
280.000	380.000	61.660	6.019
290.000	380.000	64.737	7.487
300.000	380.000	87.213	9.988
310.000	380.000	35.184	1.778
LINE 390			
310.000	390.000	26.220	0.788
300.000	390.000	59.628	5.907
290.000	390.000	51.260	5.727
280.000	390.000	52.212	5.888
270.000	390.000	26.779	3.632
260.000	390.000	27.832	3.505
250.000	390.000	37.381	3.064
240.000	390.000	46.609	3.375
230.000	390.000	33.114	2.767
220.000	390.000	20.178	3.300
210.000	390.000	16.525	2.627
200.000	390.000	14.877	2.695
190.000	390.000	11.389	3.632
180.000	390.000	15.518	2.294
170.000	390.000	13.668	2.552
160.000	390.000	18.777	1.455
150.000	390.000	18.457	1.414
140.000	390.000	17.788	1.381
130.000	390.000	17.212	1.615
120.000	390.000	17.440	1.955
110.000	390.000	20.361	1.346
100.000	390.000	17.019	1.545
90.000	390.000	16.543	1.572
80.000	390.000	19.436	1.901
70.000	390.000	18.163	1.918
60.000	390.000	20.224	1.234
50.000	390.000	21.789	1.624
40.000	390.000	21.396	1.370
30.000	390.000	21.643	2.440
20.000	390.000	21.368	2.046
10.000	390.000	20.297	1.352
0.000	390.000	23.263	0.745
LINE 400			
0.000	400.000	20.828	0.755
10.000	400.000	16.818	1.503
20.000	400.000	18.163	1.837
30.000	400.000	20.196	1.543
40.000	400.000	21.304	1.497
50.000	400.000	21.103	1.627
60.000	400.000	20.178	1.277
70.000	400.000	19.482	1.572
80.000	400.000	20.617	1.407
90.000	400.000	20.956	1.299
100.000	400.000	17.028	1.877
110.000	400.000	14.373	2.620
120.000	400.000	17.367	1.326
130.000	400.000	17.486	1.672
140.000	400.000	17.212	1.804
150.000	400.000	17.340	1.708
160.000	400.000	17.266	1.655
170.000	400.000	16.635	1.795
180.000	400.000	16.360	1.870
190.000	400.000	13.421	2.916
200.000	400.000	13.769	2.954
210.000	400.000	15.655	2.510
220.000	400.000	19.079	2.057
230.000	400.000	21.029	2.423
240.000	400.000	28.683	2.838
250.000	400.000	39.037	2.835
260.000	400.000	47.955	3.338
270.000	400.000	48.623	4.281
280.000	400.000	58.227	4.632
290.000	400.000	71.154	5.185
300.000	400.000	74.661	5.343
LINE 410			
300.000	410.000	59.610	2.879
290.000	410.000	50.527	2.230
280.000	410.000	38.488	3.393
270.000	410.000	31.585	3.647
260.000	410.000	27.172	2.927
250.000	410.000	26.568	2.688
240.000	410.000	24.948	7.243
230.000	410.000	21.222	1.670
220.000	410.000	19.207	1.789
210.000	410.000	16.809	2.002
200.000	410.000	11.563	2.693
190.000	410.000	14.959	2.811
180.000	410.000	20.095	1.725
170.000	410.000	18.420	1.363
160.000	410.000	17.111	1.615
150.000	410.000	16.763	2.500
140.000	410.000	15.710	2.651
130.000	410.000	15.472	2.870
120.000	410.000	17.422	2.148
110.000	410.000	18.631	1.953
100.000	410.000	17.047	1.747
90.000	410.000	14.108	2.792
80.000	410.000	17.340	5.295
70.000	410.000	21.084	1.661
60.000	410.000	20.095	2.827
50.000	410.000	20.992	1.646
40.000	410.000	18.731	6.313
30.000	410.000	21.249	4.169
20.000	410.000	24.178	2.166
10.000	410.000	23.821	2.298
0.000	410.000	22.320	0.771
LINE 420			
0.000	420.000	23.419	0.773
10.000	420.000	24.765	3.926
20.000	420.000	24.646	1.400
30.000	420.000	17.111	3.246
40.000	420.000	21.606	2.072
50.000	420.000	19.198	2.170
60.000	420.000	19.537	4.801
70.000	420.000	20.874	0.806

Line	Station	In-Phase	Quad.
80.000	420.000	21.148	1.789
90.000	420.000	19.491	2.193
100.000	420.000	21.496	1.229
110.000	420.000	22.714	5.403
120.000	420.000	17.257	3.899
130.000	420.000	14.227	5.644
140.000	420.000	9.347	6.732
150.000	420.000	17.157	3.303
160.000	420.000	16.159	4.323
170.000	420.000	16.763	1.940
180.000	420.000	18.384	3.349
190.000	420.000	17.266	2.192
200.000	420.000	8.184	6.420
210.000	420.000	6.124	7.057
220.000	420.000	18.200	2.754
230.000	420.000	20.800	1.918
240.000	420.000	20.123	2.269
250.000	420.000	21.927	4.317
260.000	420.000	21.606	3.261
270.000	420.000	22.201	3.279
280.000	420.000	23.428	3.426
290.000	420.000	25.240	3.619
300.000	420.000	43.478	3.875
LINE 430			
300.000	430.000	40.704	3.165
290.000	430.000	37.317	2.517
280.000	430.000	29.287	3.893
270.000	430.000	26.550	3.432
260.000	430.000	23.657	2.802
250.000	430.000	22.192	2.237
240.000	430.000	22.714	2.046
230.000	430.000	19.647	3.145
220.000	430.000	20.974	3.070
210.000	430.000	13.074	3.680
200.000	430.000	16.342	2.015
190.000	430.000	15.518	2.149
180.000	430.000	16.836	1.640
170.000	430.000	18.805	1.706
160.000	430.000	16.543	2.078
150.000	430.000	18.741	2.486
140.000	430.000	15.115	2.486
130.000	430.000	16.415	3.191
120.000	430.000	18.978	1.560
110.000	430.000	20.700	1.442
100.000	430.000	19.171	1.740
90.000	430.000	18.887	1.677
80.000	430.000	18.027	3.467
70.000	430.000	22.201	1.376
60.000	430.000	21.469	1.412
50.000	430.000	17.797	2.285
40.000	430.000	20.407	2.565
30.000	430.000	21.514	1.473
20.000	430.000	18.063	2.445
10.000	430.000	23.236	2.487
0.000	430.000	17.175	2.550
LINE 440			
0.000	440.000	16.497	-0.157
10.000	440.000	13.485	-2.765
20.000	440.000	18.640	0.615
30.000	440.000	22.054	2.443
40.000	440.000	22.961	1.776
50.000	440.000	21.597	1.892
60.000	440.000	16.342	2.390
70.000	440.000	20.205	1.087
80.000	440.000	21.331	1.058
90.000	440.000	17.248	3.002
100.000	440.000	16.717	1.808
110.000	440.000	20.517	2.054
120.000	440.000	21.349	2.430
130.000	440.000	18.292	1.661
140.000	440.000	20.123	1.477
150.000	440.000	15.856	2.116
160.000	440.000	17.056	2.035
170.000	440.000	18.832	1.458
180.000	440.000	17.019	1.473
190.000	440.000	15.930	2.087
200.000	440.000	18.621	2.105
210.000	440.000	12.744	2.383
220.000	440.000	6.481	3.147
230.000	440.000	22.686	2.754
240.000	440.000	24.197	4.097
250.000	440.000	21.139	4.597
260.000	440.000	9.841	7.268
270.000	440.000	20.334	4.883
280.000	440.000	27.740	4.571
290.000	440.000	33.837	4.567
300.000	440.000	41.977	2.721
LINE 450			
300.000	450.000	46.993	2.989
290.000	450.000	50.116	3.685
280.000	450.000	49.850	5.120
270.000	450.000	41.500	3.239
260.000	450.000	35.010	4.264
250.000	450.000	23.016	4.112
240.000	450.000	24.325	2.989
230.000	450.000	27.255	2.440
220.000	450.000	19.098	3.509
210.000	450.000	2.115	3.338
200.000	450.000	17.056	1.890
190.000	450.000	18.264	2.607
180.000	450.000	14.446	2.552
170.000	450.000	18.438	1.648
160.000	450.000	17.166	2.456
150.000	450.000	14.437	4.262
140.000	450.000	16.735	2.546
130.000	450.000	17.422	2.493
120.000	450.000	17.706	2.473
110.000	450.000	17.212	2.452
100.000	450.000	17.990	0.753
90.000	450.000	16.149	2.107
80.000	450.000	12.863	5.740
70.000	450.000	20.269	4.604
60.000	450.000	18.951	2.565
50.000	450.000	18.841	4.204
40.000	450.000	19.152	4.084
30.000	450.000	20.938	2.026
20.000	450.000	23.913	4.069
10.000	450.000	20.489	2.148
0.000	450.000	18.960	2.557
LINE 460			
0.000	460.000	19.793	1.376
10.000	460.000	20.343	2.985
20.000	460.000	22.064	2.754
30.000	460.000	21.606	3.121
40.000	460.000	18.640	3.967
50.000	460.000	19.354	1.868
60.000	460.000	19.747	1.716
70.000	460.000	17.138	3.402
80.000	460.000	15.829	2.781
90.000	460.000	15.738	2.983
100.000	460.000	17.605	1.809
110.000	460.000	16.974	2.021

Line	Station	In-Phase	Quad.
120.000	460.000	17.514	1.762
130.000	460.000	18.210	1.400
140.000	460.000	18.228	2.585
150.000	460.000	14.895	2.769
160.000	460.000	16.113	2.304
170.000	460.000	18.411	1.940
180.000	460.000	18.255	2.776
190.000	460.000	15.847	2.730
200.000	460.000	20.910	1.956
210.000	460.000	16.570	2.965
220.000	460.000	6.811	4.308
230.000	460.000	22.146	2.421
240.000	460.000	30.917	2.410
250.000	460.000	54.427	2.579
260.000	460.000	64.773	3.908
270.000	460.000	52.661	3.222
280.000	460.000	33.984	3.228
290.000	460.000	20.370	3.737
300.000	460.000	30.267	2.447
LINE 470			
300.000	470.000	56.561	5.251
290.000	470.000	59.985	6.454
280.000	470.000	61.899	7.663
270.000	470.000	68.765	5.058
260.000	470.000	68.316	5.424
250.000	470.000	63.610	5.113
240.000	470.000	55.416	3.529
230.000	470.000	28.308	4.582
220.000	470.000	15.820	5.901
210.000	470.000	17.376	2.513
200.000	470.000	13.027	2.572
190.000	470.000	20.306	1.662
180.000	470.000	18.603	1.865
170.000	470.000	19.656	1.427
160.000	470.000	19.747	1.765
150.000	470.000	16.443	2.605
140.000	470.000	17.129	2.723
130.000	470.000	15.316	2.818
120.000	470.000	15.573	2.844
110.000	470.000	18.210	2.002
100.000	470.000	16.974	2.497
90.000	470.000	15.508	1.947
80.000	470.000	15.069	3.307
70.000	470.000	16.644	2.342
60.000	470.000	16.360	1.846
50.000	470.000	19.281	1.618
40.000	470.000	20.480	1.609
30.000	470.000	18.969	2.344
20.000	470.000	16.937	2.083
10.000	470.000	19.629	2.373
0.000	470.000	18.750	1.673
LINE 480			
0.000	480.000	17.669	1.830
10.000	480.000	18.558	2.462
20.000	480.000	19.793	2.831
30.000	480.000	19.464	2.329
40.000	480.000	20.242	3.048
50.000	480.000	20.315	2.813
60.000	480.000	18.640	2.928
70.000	480.000	16.424	2.087
80.000	480.000	17.715	2.109
90.000	480.000	16.012	2.357
100.000	480.000	15.701	1.416
110.000	480.000	15.838	2.368
120.000	480.000	16.067	2.616
130.000	480.000	16.754	2.373
140.000	480.000	16.213	2.026
150.000	480.000	19.464	2.833
160.000	480.000	15.948	2.533
170.000	480.000	17.486	2.408
180.000	480.000	15.738	2.956
190.000	480.000	17.660	2.144
200.000	480.000	18.585	2.412
210.000	480.000	4.101	7.948
220.000	480.000	7.168	7.377
230.000	480.000	18.997	5.993
240.000	480.000	18.685	4.634
250.000	480.000	20.581	5.209
260.000	480.000	23.428	5.490
270.000	480.000	27.319	7.369
280.000	480.000	30.450	5.346
290.000	480.000	37.655	4.279
300.000	480.000	36.429	4.261
LINE 490			
300.000	490.000	33.471	4.086
290.000	490.000	33.856	3.900
280.000	490.000	31.219	2.848
270.000	490.000	26.614	3.785
260.000	490.000	24.462	3.772
250.000	490.000	24.774	3.121
240.000	490.000	19.738	3.704
230.000	490.000	22.265	2.427
220.000	490.000	19.381	3.243
210.000	490.000	15.463	3.454
200.000	490.000	23.318	0.856
190.000	490.000	21.240	1.227
180.000	490.000	17.596	1.697
170.000	490.000	17.184	1.947
160.000	490.000	17.047	2.046
150.000	490.000	16.900	2.090
140.000	490.000	17.688	1.964
130.000	490.000	17.953	1.363
120.000	490.000	18.292	1.523
110.000	490.000	17.404	2.065
100.000	490.000	16.772	1.405
90.000	490.000	17.880	2.351
80.000	490.000	17.752	2.429
70.000	490.000	17.797	2.996
60.000	490.000	18.649	2.282
50.000	490.000	19.638	1.633
40.000	490.000	21.826	2.769
30.000	490.000	20.544	1.574
20.000	490.000	18.704	2.184
10.000	490.000	19.766	1.424
0.000	490.000	19.977	0.959
LINE 500			
0.000	500.000	20.251	1.122
10.000	500.000	19.610	0.951
20.000	500.000	20.809	1.433
30.000	500.000	21.148	1.802
40.000	500.000	21.991	1.773
50.000	500.000	19.189	1.411
60.000	500.000	19.620	1.394
70.000	500.000	18.676	0.955
80.000	500.000	18.978	1.192
90.000	500.000	16.809	1.032
100.000	500.000	19.665	1.142
110.000	500.000	17.733	1.622
120.000	500.000	16.525	1.804
130.000	500.000	17.175	2.087
140.000	500.000	18.951	1.736
150.000	500.000	16.864	2.192

Line	Station	In-Phase	Quad.
160.000	500.000	17.349	2.201
170.000	500.000	19.967	1.379
180.000	500.000	18.997	1.504
190.000	500.000	19.409	1.706
200.000	500.000	14.987	3.917
210.000	500.000	14.126	3.029
220.000	500.000	22.833	1.662
230.000	500.000	20.517	2.824
240.000	500.000	20.434	2.958
250.000	500.000	23.107	2.487
260.000	500.000	21.981	2.544
270.000	500.000	27.228	2.825
280.000	500.000	29.361	3.167
290.000	500.000	34.597	3.498
300.000	500.000	34.533	3.709
LINE 510			
300.000	510.000	38.205	4.307
290.000	510.000	39.239	5.159
280.000	510.000	32.382	4.182
270.000	510.000	29.397	3.682
260.000	510.000	26.175	2.526
250.000	510.000	22.402	3.606
240.000	510.000	18.045	4.290
230.000	510.000	22.860	1.521
220.000	510.000	15.124	2.401
210.000	510.000	12.341	4.334
200.000	510.000	15.948	2.452
190.000	510.000	16.287	2.631
180.000	510.000	17.358	2.076
170.000	510.000	19.848	1.372
160.000	510.000	17.431	2.208
150.000	510.000	19.921	1.991
140.000	510.000	22.073	0.709
130.000	510.000	19.061	1.464
120.000	510.000	17.752	2.296
110.000	510.000	19.189	1.168
100.000	510.000	17.120	1.802
90.000	510.000	18.631	1.532
80.000	510.000	21.615	1.370
70.000	510.000	19.042	2.057
60.000	510.000	19.665	2.315
50.000	510.000	20.764	1.400
40.000	510.000	21.075	1.844
30.000	510.000	20.691	1.221
20.000	510.000	20.910	1.196
10.000	510.000	22.293	0.810
0.000	510.000	20.645	1.458
LINE 520			
0.000	520.000	6.619	5.334
10.000	520.000	23.391	0.463
20.000	520.000	19.766	1.466
30.000	520.000	22.458	1.060
40.000	520.000	23.053	1.280
50.000	520.000	21.249	1.356
60.000	520.000	19.189	1.220
70.000	520.000	21.908	0.887
80.000	520.000	20.910	1.084
90.000	520.000	16.589	2.250
100.000	520.000	15.710	2.304
110.000	520.000	17.971	0.463
120.000	520.000	19.629	1.488
130.000	520.000	21.450	0.760
140.000	520.000	19.573	1.519
150.000	520.000	18.328	1.738
160.000	520.000	19.143	1.620
170.000	520.000	19.830	1.131
180.000	520.000	18.667	1.659
190.000	520.000	14.446	2.464
200.000	520.000	14.703	2.333
210.000	520.000	12.616	3.491
220.000	520.000	12.378	4.007
230.000	520.000	18.063	2.497
240.000	520.000	19.766	2.225
250.000	520.000	24.682	1.918
260.000	520.000	31.173	2.577
270.000	520.000	37.921	3.031
280.000	520.000	48.403	3.399
290.000	520.000	54.427	3.355
300.000	520.000	53.659	4.095
LINE 530			
300.000	530.000	35.925	2.195
290.000	530.000	44.732	3.741
280.000	530.000	67.657	3.869
270.000	530.000	50.793	3.265
260.000	530.000	39.230	3.217
250.000	530.000	29.544	2.954
240.000	530.000	21.570	2.787
230.000	530.000	17.871	3.217
220.000	530.000	14.914	4.218
210.000	530.000	15.838	3.256
200.000	530.000	18.631	1.861
190.000	530.000	19.253	1.747
180.000	530.000	18.750	1.416
170.000	530.000	18.292	1.736
160.000	530.000	17.596	2.090
150.000	530.000	18.832	1.378
140.000	530.000	18.997	2.045
130.000	530.000	19.089	1.888
120.000	530.000	16.992	2.638
110.000	530.000	19.830	0.951
100.000	530.000	18.896	1.262
90.000	530.000	19.354	1.300
80.000	530.000	20.443	1.668
70.000	530.000	19.894	2.397
60.000	530.000	19.033	1.649
50.000	530.000	21.835	1.960
40.000	530.000	21.588	1.723
30.000	530.000	20.764	1.624
20.000	530.000	20.251	1.813
10.000	530.000	22.430	1.201
0.000	530.000	23.868	0.696
LINE 540			
0.000	540.000	20.791	0.920
10.000	540.000	21.286	1.152
20.000	540.000	20.297	1.512
30.000	540.000	22.595	1.172
40.000	540.000	20.764	1.655
50.000	540.000	20.022	1.495
60.000	540.000	19.381	1.543
70.000	540.000	19.683	1.570
80.000	540.000	19.390	1.675
90.000	540.000	17.816	1.649
100.000	540.000	17.706	1.501
110.000	540.000	18.429	1.604
120.000	540.000	17.193	0.986
130.000	540.000	16.241	1.607
140.000	540.000	19.308	1.912
150.000	540.000	18.612	1.330
160.000	540.000	17.578	1.554
170.000	540.000	17.449	1.793
180.000	540.000	19.683	1.460
190.000	540.000	18.878	1.719

Line	Station	In-Phase	Quad.
200.000	540.000	18.365	1.752
210.000	540.000	17.541	2.085
220.000	540.000	19.134	2.148
230.000	540.000	18.438	3.011
240.000	540.000	19.098	2.340
250.000	540.000	26.340	1.942
260.000	540.000	38.086	2.304
270.000	540.000	47.149	2.535
280.000	540.000	47.616	3.426
290.000	540.000	49.099	3.246
300.000	540.000	41.803	2.708
LINE 550			
300.000	550.000	26.971	2.612
290.000	550.000	28.060	2.350
280.000	550.000	27.090	1.341
270.000	550.000	28.967	2.888
260.000	550.000	27.054	2.388
250.000	550.000	14.776	4.751
240.000	550.000	19.610	3.028
230.000	550.000	26.650	1.624
220.000	550.000	18.548	2.811
210.000	550.000	16.195	3.186
200.000	550.000	17.660	2.138
190.000	550.000	18.933	1.809
180.000	550.000	20.260	1.668
170.000	550.000	19.098	1.789
160.000	550.000	17.944	1.661
150.000	550.000	18.786	1.199
140.000	550.000	17.523	1.729
130.000	550.000	16.342	1.874
120.000	550.000	18.127	1.155
110.000	550.000	18.988	1.381
100.000	550.000	17.898	2.004
90.000	550.000	17.340	1.859
80.000	550.000	19.272	1.199
70.000	550.000	21.066	1.315
60.000	550.000	21.093	1.471
50.000	550.000	19.409	1.512
40.000	550.000	21.020	1.960
30.000	550.000	21.624	1.815
20.000	550.000	19.024	2.236
10.000	550.000	21.121	1.523
0.000	550.000	20.828	1.236
LINE 560			
0.000	560.000	19.665	1.238
10.000	560.000	20.425	1.350
20.000	560.000	20.352	1.326
30.000	560.000	19.427	1.528
40.000	560.000	22.128	1.429
50.000	560.000	19.555	1.688
60.000	560.000	21.661	1.179
70.000	560.000	20.736	1.231
80.000	560.000	21.148	1.225
90.000	560.000	19.162	1.205
100.000	560.000	18.521	1.262
110.000	560.000	17.834	1.752
120.000	560.000	17.541	0.630
130.000	560.000	18.585	0.981
140.000	560.000	17.056	1.639
150.000	560.000	17.477	1.291
160.000	560.000	19.592	1.234
170.000	560.000	17.743	1.751
180.000	560.000	20.425	1.523
190.000	560.000	19.885	1.664
200.000	560.000	17.440	2.131
210.000	560.000	20.846	2.212
220.000	560.000	22.668	2.673
230.000	560.000	15.527	2.447
240.000	560.000	26.824	1.861
250.000	560.000	17.797	3.755
260.000	560.000	20.956	2.785
270.000	560.000	25.543	2.111
280.000	560.000	31.210	2.355
290.000	560.000	29.507	2.914
300.000	560.000	25.827	2.239
LINE 570			
300.000	570.000	26.605	1.973
290.000	570.000	34.167	1.819
280.000	570.000	40.273	2.678
270.000	570.000	33.526	3.426
260.000	570.000	24.234	2.577
250.000	570.000	24.105	1.651
240.000	570.000	27.942	1.931
230.000	570.000	21.606	2.513
220.000	570.000	16.104	3.722
210.000	570.000	18.017	3.094
200.000	570.000	19.253	2.023
190.000	570.000	17.862	2.024
180.000	570.000	19.793	1.758
170.000	570.000	18.795	1.383
160.000	570.000	18.805	1.468
150.000	570.000	18.264	1.896
140.000	570.000	18.274	1.615
130.000	570.000	19.171	1.865
120.000	570.000	18.997	1.545
110.000	570.000	18.118	1.718
100.000	570.000	19.977	1.218
90.000	570.000	19.107	2.985
80.000	570.000	20.764	1.879
70.000	570.000	21.871	1.688
60.000	570.000	20.764	1.591
50.000	570.000	18.420	2.037
40.000	570.000	21.029	1.501
30.000	570.000	20.132	2.070
20.000	570.000	21.011	1.392
10.000	570.000	20.553	0.995
0.000	570.000	19.006	1.214
LINE 580			
0.000	580.000	20.461	1.107
10.000	580.000	21.029	1.047
20.000	580.000	20.800	1.721
30.000	580.000	20.343	1.284
40.000	580.000	20.461	1.962
50.000	580.000	21.304	2.087
60.000	580.000	20.132	1.615
70.000	580.000	20.169	2.045
80.000	580.000	20.983	3.266
90.000	580.000	19.500	1.582
100.000	580.000	17.971	1.098
110.000	580.000	16.827	1.661
120.000	580.000	17.706	1.697
130.000	580.000	18.191	1.789
140.000	580.000	18.768	1.348
150.000	580.000	18.109	1.352
160.000	580.000	19.134	1.510
170.000	580.000	18.237	1.495
180.000	580.000	19.216	1.668
190.000	580.000	19.381	1.605
200.000	580.000	19.152	1.769
210.000	580.000	20.434	1.947
220.000	580.000	17.413	3.979
230.000	580.000	18.603	4.029

Line	Station	In-Phase	Quad.
240.000	580.000	21.771	2.541
250.000	580.000	24.573	2.102
260.000	580.000	32.867	1.967
270.000	580.000	38.964	2.941
280.000	580.000	43.231	2.673
290.000	580.000	28.756	1.528
300.000	580.000	17.834	1.662
LINE 590			
300.000	590.000	25.845	1.444
290.000	590.000	29.507	2.023
280.000	590.000	39.001	2.611
270.000	590.000	37.802	3.278
260.000	590.000	29.461	3.877
250.000	590.000	21.267	2.430
240.000	590.000	22.219	1.833
230.000	590.000	18.722	3.785
220.000	590.000	18.337	2.857
210.000	590.000	18.100	2.331
200.000	590.000	16.195	2.794
190.000	590.000	19.162	2.265
180.000	590.000	18.896	2.960
170.000	590.000	18.859	2.138
160.000	590.000	17.733	1.872
150.000	590.000	19.244	1.782
140.000	590.000	18.612	1.306
130.000	590.000	17.761	1.695
120.000	590.000	17.999	1.315
110.000	590.000	14.566	1.971
100.000	590.000	19.299	1.481
90.000	590.000	18.384	1.593
80.000	590.000	17.898	1.199
70.000	590.000	18.154	1.249
60.000	590.000	18.805	1.526
50.000	590.000	18.283	2.160
40.000	590.000	18.036	1.692
30.000	590.000	18.411	1.918
20.000	590.000	18.511	2.035
10.000	590.000	18.219	1.729
0.000	590.000	23.089	0.172
LINE 600			
0.000	600.000	10.922	3.722
10.000	600.000	5.154	6.425
20.000	600.000	17.120	1.971
30.000	600.000	19.399	1.177
40.000	600.000	18.576	2.111
50.000	600.000	17.212	1.458
60.000	600.000	19.583	1.221
70.000	600.000	18.219	1.435
80.000	600.000	20.535	1.466
90.000	600.000	20.233	1.262
100.000	600.000	18.109	1.716
110.000	600.000	18.694	1.659
120.000	600.000	17.322	2.903
130.000	600.000	17.239	3.994
140.000	600.000	17.065	1.668
150.000	600.000	18.805	1.567
160.000	600.000	17.404	2.328
170.000	600.000	16.937	2.465
180.000	600.000	17.184	1.995
190.000	600.000	18.850	1.661
200.000	600.000	19.125	1.802
210.000	600.000	18.402	1.986
220.000	600.000	19.784	1.468
230.000	600.000	15.362	2.871
240.000	600.000	18.511	3.064
250.000	600.000	17.422	3.586
260.000	600.000	18.301	3.290
270.000	600.000	23.556	3.424
280.000	600.000	26.166	3.928
290.000	600.000	28.619	3.046
300.000	600.000	23.034	1.787
LINE 610			
300.000	610.000	19.967	0.213
290.000	610.000	19.720	1.738
280.000	610.000	20.883	12.118
270.000	610.000	22.705	3.992
260.000	610.000	18.942	1.508
250.000	610.000	22.449	2.515
240.000	610.000	21.478	0.306
230.000	610.000	18.658	1.142
220.000	610.000	14.227	1.887
210.000	610.000	18.008	1.356
200.000	610.000	19.107	0.075
190.000	610.000	19.024	0.301
180.000	610.000	17.825	3.634
170.000	610.000	18.045	0.395
160.000	610.000	18.374	0.705
150.000	610.000	18.054	0.236
140.000	610.000	17.065	3.153
130.000	610.000	18.814	0.578
120.000	610.000	17.129	5.238
110.000	610.000	18.667	8.959
100.000	610.000	16.003	1.379
90.000	610.000	16.369	0.885
80.000	610.000	17.898	2.419
70.000	610.000	17.505	1.627
60.000	610.000	16.278	1.049
50.000	610.000	17.101	0.621
40.000	610.000	16.360	0.042
30.000	610.000	17.468	0.858
20.000	610.000	18.988	0.898
10.000	610.000	20.352	0.266
0.000	610.000	17.120	1.394
LINE 620			
0.000	620.000	20.727	0.011
10.000	620.000	19.720	1.300
20.000	620.000	19.180	0.554
30.000	620.000	19.766	0.150
40.000	620.000	19.537	0.214
50.000	620.000	17.385	0.519
60.000	620.000	15.719	0.920
70.000	620.000	15.701	1.453
80.000	620.000	18.915	0.417
90.000	620.000	17.129	0.970
100.000	620.000	18.100	-0.249
110.000	620.000	18.210	0.747
120.000	620.000	17.322	-0.117
130.000	620.000	15.792	0.606
140.000	620.000	17.129	0.839
150.000	620.000	15.142	0.380
160.000	620.000	17.275	0.216
170.000	620.000	17.632	0.044
180.000	620.000	19.967	8.441
190.000	620.000	18.631	2.199
200.000	620.000	19.180	0.297
210.000	620.000	19.399	0.931
220.000	620.000	15.024	2.493
230.000	620.000	13.018	2.853
240.000	620.000	21.936	1.365
250.000	620.000	21.624	1.554
260.000	620.000	21.194	2.735
270.000	620.000	19.189	2.377

Line	Station	In-Phase	Quad.
280.000	620.000	21.057	1.892
290.000	620.000	21.148	0.218
300.000	620.000	19.912	0.477
LINE 630			
300.000	630.000	21.817	0.301
290.000	630.000	20.645	0.521
280.000	630.000	20.489	0.360
270.000	630.000	19.720	0.992
260.000	630.000	24.426	4.235
250.000	630.000	21.478	0.718
240.000	630.000	13.623	2.998
230.000	630.000	18.100	1.234
220.000	630.000	16.607	3.652
210.000	630.000	15.390	1.888
200.000	630.000	18.786	-0.064
190.000	630.000	19.399	0.720
180.000	630.000	18.310	0.927
170.000	630.000	15.289	0.801
160.000	630.000	17.385	0.178
150.000	630.000	16.360	0.464
140.000	630.000	14.932	-0.090
130.000	630.000	16.012	0.777
120.000	630.000	19.299	4.764
110.000	630.000	19.775	-0.418
100.000	630.000	17.743	-0.325
90.000	630.000	19.601	3.906
80.000	630.000	17.889	-0.536
70.000	630.000	16.937	0.106
60.000	630.000	22.815	16.713
50.000	630.000	18.402	0.040
40.000	630.000	17.266	1.389
30.000	630.000	18.878	4.470
20.000	630.000	16.177	1.210
10.000	630.000	17.752	0.097
0.000	630.000	18.805	0.758
LINE 640			
0.000	640.000	19.610	-0.268
10.000	640.000	18.310	1.234
20.000	640.000	15.033	1.405
30.000	640.000	15.655	-0.878
40.000	640.000	16.589	-0.872
50.000	640.000	17.550	1.633
60.000	640.000	18.585	-0.102
70.000	640.000	21.469	8.402
80.000	640.000	18.118	-0.034
90.000	640.000	19.308	1.914
100.000	640.000	20.672	0.108
110.000	640.000	18.942	0.466
120.000	640.000	20.151	0.036
130.000	640.000	18.576	0.231
140.000	640.000	18.292	0.128
150.000	640.000	15.847	0.701
160.000	640.000	16.250	1.131
170.000	640.000	17.148	0.766
180.000	640.000	15.390	0.891
190.000	640.000	19.583	3.761
200.000	640.000	19.272	3.254
210.000	640.000	18.274	0.200
220.000	640.000	18.173	0.474
230.000	640.000	21.789	2.894
240.000	640.000	15.234	1.017
250.000	640.000	17.688	1.787
260.000	640.000	18.649	5.389
270.000	640.000	24.234	0.512
280.000	640.000	18.145	2.160
290.000	640.000	18.191	1.275
300.000	640.000	20.178	0.593
LINE 650			
300.000	650.000	19.336	0.681
290.000	650.000	19.702	1.063
280.000	650.000	19.921	11.621
270.000	650.000	20.269	9.089
260.000	650.000	23.620	11.114
250.000	650.000	22.998	2.770
240.000	650.000	16.580	5.725
230.000	650.000	18.027	4.612
220.000	650.000	19.336	2.566
210.000	650.000	16.671	1.607
200.000	650.000	19.720	8.000
190.000	650.000	17.944	0.815
180.000	650.000	16.763	0.224
170.000	650.000	14.923	0.253
160.000	650.000	16.534	0.670
150.000	650.000	15.985	0.393
140.000	650.000	18.942	0.194
130.000	650.000	18.402	0.567
120.000	650.000	20.278	2.087
110.000	650.000	18.978	-0.600
100.000	650.000	19.216	0.064
90.000	650.000	19.399	-0.053
80.000	650.000	18.777	0.301
70.000	650.000	20.919	-0.187
60.000	650.000	21.295	8.891
50.000	650.000	18.301	0.172
40.000	650.000	17.038	0.564
30.000	650.000	17.578	0.034
20.000	650.000	18.978	-0.082
10.000	650.000	16.626	-0.124
0.000	650.000	16.396	0.299
LINE 660			
0.000	660.000	17.257	-0.124
10.000	660.000	18.667	1.412
20.000	660.000	20.617	3.856
30.000	660.000	20.736	-0.077
40.000	660.000	17.496	0.725
50.000	660.000	17.724	0.628
60.000	660.000	22.714	13.042
70.000	660.000	18.905	1.269
80.000	660.000	21.166	0.440
90.000	660.000	20.306	1.023
100.000	660.000	20.361	1.804
110.000	660.000	19.940	0.426
120.000	660.000	19.061	0.222
130.000	660.000	18.942	0.341
140.000	660.000	18.859	0.848
150.000	660.000	18.337	0.332
160.000	660.000	18.530	1.036
170.000	660.000	16.580	0.444
180.000	660.000	17.212	0.418
190.000	660.000	18.219	0.231
200.000	660.000	17.614	-0.145
210.000	660.000	17.971	0.257
220.000	660.000	17.157	1.637
230.000	660.000	14.987	1.833
240.000	660.000	20.489	1.712
250.000	660.000	10.024	3.671
260.000	660.000	13.815	3.226
270.000	660.000	20.086	1.706
280.000	660.000	17.679	1.569
290.000	660.000	17.990	1.455
300.000	660.000	20.151	0.698
310.000	660.000	20.278	0.564

Line	Station	In-Phase	Quad.
320.000	660.000	22.595	0.404
LINE 670			
300.000	670.000	18.933	0.382
290.000	670.000	18.841	1.488
280.000	670.000	22.210	1.361
270.000	670.000	21.945	1.718
260.000	670.000	18.969	2.774
250.000	670.000	14.456	1.673
240.000	670.000	18.191	1.567
230.000	670.000	20.800	0.134
220.000	670.000	17.999	0.584
210.000	670.000	18.347	0.334
200.000	670.000	19.262	0.582
190.000	670.000	18.649	0.514
180.000	670.000	15.408	0.350
170.000	670.000	16.598	-0.117
160.000	670.000	17.862	0.207
150.000	670.000	19.281	-0.001
140.000	670.000	19.152	-0.130
130.000	670.000	18.054	0.354
120.000	670.000	19.015	0.191
110.000	670.000	19.189	0.437
100.000	670.000	19.162	-0.053
90.000	670.000	18.054	0.632
80.000	670.000	20.471	1.414
70.000	670.000	21.441	0.709
60.000	670.000	20.416	-0.062
50.000	670.000	21.011	-0.236
40.000	670.000	21.377	-0.093
30.000	670.000	17.679	0.560
20.000	670.000	15.865	0.595
10.000	670.000	18.393	0.378
0.000	670.000	20.013	-0.159
LINE 680			
0.000	680.000	19.839	-0.110
10.000	680.000	15.060	2.070
20.000	680.000	11.013	2.603
30.000	680.000	15.399	0.931
40.000	680.000	17.212	0.231
50.000	680.000	20.965	0.986
60.000	680.000	19.225	0.045
70.000	680.000	19.793	-0.117
80.000	680.000	23.227	-0.314
90.000	680.000	21.276	-0.220
100.000	680.000	19.555	0.371
110.000	680.000	18.356	0.268
120.000	680.000	18.951	-0.301
130.000	680.000	18.841	0.661
140.000	680.000	18.558	2.203
150.000	680.000	18.090	-0.022
160.000	680.000	19.720	0.011
170.000	680.000	18.805	-0.248
180.000	680.000	17.761	-0.488
190.000	680.000	17.578	-0.216
200.000	680.000	19.272	1.644
210.000	680.000	18.594	0.281
220.000	680.000	17.651	0.718
230.000	680.000	20.160	0.082
240.000	680.000	19.564	0.745
250.000	680.000	19.647	0.801
260.000	680.000	14.850	1.572
270.000	680.000	15.957	1.262
280.000	680.000	21.057	0.411
290.000	680.000	21.423	2.530
300.000	680.000	18.777	1.087
LINE 690			
300.000	690.000	24.920	0.771
290.000	690.000	25.186	1.471
280.000	690.000	23.272	0.880
270.000	690.000	22.064	0.795
260.000	690.000	18.722	4.097
250.000	690.000	16.030	6.816
240.000	690.000	14.831	1.752
230.000	690.000	17.514	1.251
220.000	690.000	18.567	0.336
210.000	690.000	17.679	0.327
200.000	690.000	16.845	0.475
190.000	690.000	16.250	-0.207
180.000	690.000	16.974	1.128
170.000	690.000	18.878	0.271
160.000	690.000	19.912	1.605
150.000	690.000	19.555	-0.023
140.000	690.000	18.612	0.277
130.000	690.000	17.459	-0.373
120.000	690.000	18.850	1.321
110.000	690.000	18.081	0.328
100.000	690.000	21.396	-0.371
90.000	690.000	19.995	0.299
80.000	690.000	18.100	-0.178
70.000	690.000	19.821	-0.135
60.000	690.000	20.818	-0.169
50.000	690.000	19.555	-0.231
40.000	690.000	19.162	0.001
30.000	690.000	19.225	-0.066
20.000	690.000	21.249	-0.488
10.000	690.000	18.731	1.102
0.000	690.000	15.939	0.843
LINE 700			
0.000	700.000	18.466	-0.027
10.000	700.000	19.683	-0.288
20.000	700.000	15.372	1.267
30.000	700.000	10.903	3.998
40.000	700.000	20.645	-0.031
50.000	700.000	23.062	0.104
60.000	700.000	21.213	0.270
70.000	700.000	21.103	-0.031
80.000	700.000	19.006	0.060
90.000	700.000	17.523	0.459
100.000	700.000	15.747	0.657
110.000	700.000	22.247	0.668
120.000	700.000	19.848	0.876
130.000	700.000	19.564	-0.339
140.000	700.000	18.163	2.329
150.000	700.000	18.768	0.911
160.000	700.000	19.290	0.115
170.000	700.000	19.216	0.753
180.000	700.000	19.162	1.181
190.000	700.000	19.042	7.173
200.000	700.000	20.956	8.533
210.000	700.000	17.733	1.039
220.000	700.000	18.384	1.119
230.000	700.000	18.109	0.437
240.000	700.000	14.987	3.794
250.000	700.000	12.918	2.056
260.000	700.000	17.477	1.427
270.000	700.000	16.644	2.135
280.000	700.000	22.750	0.578
290.000	700.000	21.789	0.602
300.000	700.000	23.089	1.334
LINE 320			
300.000	320.000	93.631	3.316
290.000	320.000	105.771	4.215

Line	Station	In-Phase	Quad.
280.000	320.000	89.620	2.171
270.000	320.000	72.125	4.540
260.000	320.000	56.286	4.691
250.000	320.000	48.257	4.400
240.000	320.000	36.401	4.544
230.000	320.000	34.735	5.317
220.000	320.000	28.619	2.658
210.000	320.000	10.940	4.213
200.000	320.000	18.191	0.916
190.000	320.000	23.638	-0.426
180.000	320.000	12.735	2.234
170.000	320.000	19.326	0.029
160.000	320.000	18.200	0.437
150.000	320.000	16.552	7.555
140.000	320.000	11.490	2.925
130.000	320.000	14.914	1.334
120.000	320.000	16.516	0.784
110.000	320.000	17.056	1.762
100.000	320.000	21.304	-0.716
90.000	320.000	14.694	0.332
80.000	320.000	17.138	1.699
70.000	320.000	19.610	0.178
60.000	320.000	20.938	0.505
50.000	320.000	20.874	0.878
40.000	320.000	21.927	-0.233
30.000	320.000	20.654	-0.216
20.000	320.000	20.773	0.567
10.000	320.000	20.626	-0.617
0.000	320.000	20.608	-0.430
LINE 310			
0.000	310.000	22.000	-0.501
10.000	310.000	21.936	-0.395
20.000	310.000	21.597	0.769
30.000	310.000	19.674	0.183
40.000	310.000	19.281	0.108
50.000	310.000	19.134	-0.082
60.000	310.000	20.672	-0.110
70.000	310.000	21.533	-0.413
80.000	310.000	20.187	0.299
90.000	310.000	17.853	1.047
100.000	310.000	16.443	0.874
110.000	310.000	16.781	0.777
120.000	310.000	17.312	0.685
130.000	310.000	14.566	1.383
140.000	310.000	16.195	0.902
150.000	310.000	16.864	0.760
160.000	310.000	19.455	-0.020
170.000	310.000	20.663	-0.481
180.000	310.000	11.828	2.627
190.000	310.000	12.973	2.982
200.000	310.000	15.033	2.087
210.000	310.000	6.784	4.722
220.000	310.000	21.579	1.284
230.000	310.000	22.137	2.594
240.000	310.000	21.441	2.592
250.000	310.000	28.051	1.582
260.000	310.000	28.756	4.937
270.000	310.000	32.190	2.469
280.000	310.000	35.641	2.519
290.000	310.000	49.081	1.530
300.000	310.000	34.222	0.551
LINE 300			
300.000	300.000	19.867	0.106
290.000	300.000	60.040	3.311
280.000	300.000	42.828	7.640
270.000	300.000	28.610	7.456
260.000	300.000	29.223	3.777
250.000	300.000	29.242	3.878
240.000	300.000	30.240	1.912
230.000	300.000	31.429	1.449
220.000	300.000	29.535	1.458
210.000	300.000	20.050	1.736
200.000	300.000	15.664	1.530
190.000	300.000	15.216	-0.365
180.000	300.000	14.630	2.019
170.000	300.000	13.632	1.363
160.000	300.000	19.857	-0.161
150.000	300.000	20.352	-0.229
140.000	300.000	18.768	0.277
130.000	300.000	17.120	0.700
120.000	300.000	16.086	0.828
110.000	300.000	18.658	0.157
100.000	300.000	17.138	0.736
90.000	300.000	16.507	0.757
80.000	300.000	17.733	0.670
70.000	300.000	19.253	-0.056
60.000	300.000	20.104	-0.507
50.000	300.000	19.903	-0.332
40.000	300.000	20.242	-0.380
30.000	300.000	20.031	1.591
20.000	300.000	21.807	0.830
10.000	300.000	21.789	3.698
0.000	300.000	17.349	1.332
LINE 60			
480.000	60.000	20.205	3.136
490.000	60.000	19.592	8.571
500.000	60.000	19.162	4.494
510.000	60.000	20.626	4.839
520.000	60.000	17.175	9.936
530.000	60.000	20.287	3.006
540.000	60.000	22.009	5.067
550.000	60.000	21.899	5.923
560.000	60.000	19.986	2.032
570.000	60.000	20.416	5.392
580.000	60.000	19.225	0.723
590.000	60.000	19.986	7.636
600.000	60.000	16.983	1.427
610.000	60.000	16.479	1.598
620.000	60.000	16.351	1.822
630.000	60.000	17.010	1.163
640.000	60.000	16.067	2.532
650.000	60.000	6.481	-1.153
660.000	60.000	17.971	2.223
670.000	60.000	18.530	1.062
680.000	60.000	19.189	1.039
690.000	60.000	19.427	2.129
700.000	60.000	21.249	2.623
710.000	60.000	18.795	0.266
720.000	60.000	17.175	-0.112
730.000	60.000	18.274	4.744
740.000	60.000	18.402	1.324
750.000	60.000	19.766	4.323
760.000	60.000	19.006	0.314
770.000	60.000	18.814	0.461
780.000	60.000	18.795	1.574
790.000	60.000	18.127	0.227
800.000	60.000	18.548	-0.485
LINE 70			
800.000	70.000	19.116	-0.213
790.000	70.000	19.912	5.233
780.000	70.000	19.253	0.573
770.000	70.000	19.455	0.034

Line	Station	In-Phase	Quad.
760.000	70.000	18.676	0.696
750.000	70.000	18.676	2.050
740.000	70.000	16.800	0.464
730.000	70.000	18.200	0.525
720.000	70.000	20.498	3.803
710.000	70.000	18.530	0.775
700.000	70.000	18.621	0.622
690.000	70.000	18.466	0.474
680.000	70.000	19.647	7.088
670.000	70.000	16.360	3.241
660.000	70.000	15.261	2.379
650.000	70.000	16.470	1.005
640.000	70.000	16.223	0.994
630.000	70.000	17.825	0.297
620.000	70.000	17.614	0.733
610.000	70.000	18.567	0.562
600.000	70.000	18.420	-0.137
590.000	70.000	18.100	0.562
580.000	70.000	19.336	-0.132
570.000	70.000	20.452	1.170
560.000	70.000	21.039	1.646
550.000	70.000	20.114	3.031
540.000	70.000	19.519	0.893
530.000	70.000	19.784	0.369
520.000	70.000	20.068	1.078
510.000	70.000	20.242	-0.123
500.000	70.000	21.075	0.227
490.000	70.000	18.750	1.596
LINE 80			
490.000	80.000	21.103	1.047
500.000	80.000	21.331	0.088
510.000	80.000	20.306	0.937
520.000	80.000	18.393	5.385
530.000	80.000	20.508	1.982
540.000	80.000	21.460	7.640
550.000	80.000	19.134	1.932
560.000	80.000	19.793	1.350
570.000	80.000	20.214	0.418
580.000	80.000	19.940	0.677
590.000	80.000	19.756	1.135
600.000	80.000	20.022	-0.086
610.000	80.000	19.235	1.411
620.000	80.000	17.166	0.472
630.000	80.000	16.763	1.804
640.000	80.000	17.239	4.757
650.000	80.000	16.635	5.922
660.000	80.000	17.358	1.762
670.000	80.000	16.552	0.632
680.000	80.000	16.516	4.227
690.000	80.000	16.635	-0.373
700.000	80.000	18.365	-0.251
710.000	80.000	18.384	2.985
720.000	80.000	20.095	5.416
730.000	80.000	17.788	1.960
740.000	80.000	19.455	0.442
750.000	80.000	18.978	3.638
760.000	80.000	17.385	4.012
770.000	80.000	17.569	1.499
780.000	80.000	18.118	0.018
790.000	80.000	17.816	1.447
800.000	80.000	18.933	1.231
LINE 90			
800.000	90.000	19.006	-0.479
790.000	90.000	17.752	1.841
780.000	90.000	17.285	2.923
770.000	90.000	17.413	5.023
760.000	90.000	20.187	4.681
750.000	90.000	18.768	1.370
740.000	90.000	19.381	2.587
730.000	90.000	21.194	5.078
720.000	90.000	19.345	0.832
710.000	90.000	18.511	2.291
700.000	90.000	16.845	0.845
690.000	90.000	16.415	0.619
680.000	90.000	16.168	1.120
670.000	90.000	18.045	5.745
660.000	90.000	15.307	1.570
650.000	90.000	15.353	2.451
640.000	90.000	16.927	4.509
630.000	90.000	16.918	0.747
620.000	90.000	17.788	2.866
610.000	90.000	18.786	2.157
600.000	90.000	17.834	0.422
590.000	90.000	18.027	5.758
580.000	90.000	16.461	2.548
570.000	90.000	19.198	4.147
560.000	90.000	19.620	1.418
550.000	90.000	19.024	3.658
540.000	90.000	19.390	1.989
530.000	90.000	19.729	2.489
520.000	90.000	18.558	0.705
510.000	90.000	17.092	1.416
500.000	90.000	21.688	0.321
490.000	90.000	19.592	2.168
LINE 100			
500.000	100.000	22.348	0.238
510.000	100.000	19.455	1.005
520.000	100.000	19.803	7.596
530.000	100.000	22.357	4.108
540.000	100.000	21.112	1.824
550.000	100.000	21.368	3.287
560.000	100.000	22.064	2.116
570.000	100.000	22.036	3.540
580.000	100.000	20.407	0.889
590.000	100.000	18.997	0.271
600.000	100.000	18.072	-0.257
610.000	100.000	17.898	0.343
620.000	100.000	18.759	1.339
630.000	100.000	19.125	6.691
640.000	100.000	18.841	7.902
650.000	100.000	16.607	2.939
660.000	100.000	18.438	3.053
670.000	100.000	16.049	1.960
680.000	100.000	15.564	1.157
690.000	100.000	17.770	4.027
700.000	100.000	17.688	-0.113
710.000	100.000	17.028	0.755
720.000	100.000	16.699	-0.154
730.000	100.000	15.948	0.657
740.000	100.000	20.425	5.374
750.000	100.000	20.242	0.564
760.000	100.000	19.253	1.203
770.000	100.000	18.969	2.651
780.000	100.000	19.528	2.634
790.000	100.000	18.988	-0.126
800.000	100.000	16.617	0.001
LINE 110			
800.000	110.000	19.299	-0.624
790.000	110.000	19.198	0.814
780.000	110.000	19.656	1.258
770.000	110.000	19.042	1.188
760.000	110.000	20.022	0.305

Line	Station	In-Phase	Quad.
750.000	110.000	19.418	2.721
740.000	110.000	16.589	1.626
730.000	110.000	16.946	-0.029
720.000	110.000	19.601	6.908
710.000	110.000	18.310	0.347
700.000	110.000	17.505	0.439
690.000	110.000	17.743	0.815
680.000	110.000	17.532	0.955
670.000	110.000	18.027	1.481
660.000	110.000	16.552	2.168
650.000	110.000	16.754	2.511
640.000	110.000	16.909	2.805
630.000	110.000	17.569	0.606
620.000	110.000	16.854	1.212
610.000	110.000	18.621	0.808
600.000	110.000	20.278	1.010
590.000	110.000	20.663	0.883
580.000	110.000	21.084	0.913
570.000	110.000	19.363	1.192
560.000	110.000	18.255	0.119
550.000	110.000	19.225	3.066
540.000	110.000	22.036	2.282
530.000	110.000	18.567	1.876
520.000	110.000	20.398	1.025
510.000	110.000	16.086	0.406
500.000	110.000	19.638	1.580
LINE 120			
490.000	120.000	23.611	1.403
500.000	120.000	20.919	1.038
510.000	120.000	18.017	2.078
520.000	120.000	22.622	0.858
530.000	120.000	22.806	3.254
540.000	120.000	15.884	1.967
550.000	120.000	16.671	1.563
560.000	120.000	19.482	2.914
570.000	120.000	15.829	3.930
580.000	120.000	17.138	1.936
590.000	120.000	18.036	1.242
600.000	120.000	19.674	0.273
610.000	120.000	20.224	0.295
620.000	120.000	20.654	3.257
630.000	120.000	19.299	2.381
640.000	120.000	17.193	1.104
650.000	120.000	16.965	0.801
660.000	120.000	17.349	1.078
670.000	120.000	14.923	1.176
680.000	120.000	16.589	1.534
690.000	120.000	17.038	1.620
700.000	120.000	18.658	-0.119
710.000	120.000	18.274	0.135
720.000	120.000	17.523	0.837
730.000	120.000	17.715	1.045
740.000	120.000	18.072	1.043
750.000	120.000	16.232	0.481
760.000	120.000	15.646	0.622
770.000	120.000	17.111	0.970
780.000	120.000	19.363	0.238
790.000	120.000	19.537	0.308
800.000	120.000	18.539	-0.670
LINE 130			
800.000	130.000	19.345	-0.264
790.000	130.000	18.713	1.580
780.000	130.000	17.092	2.969
770.000	130.000	16.204	0.979
760.000	130.000	16.525	0.683
750.000	130.000	17.632	0.900
740.000	130.000	18.502	0.766
730.000	130.000	18.200	0.881
720.000	130.000	17.175	1.065
710.000	130.000	16.827	0.518
700.000	130.000	16.241	0.758
690.000	130.000	16.305	0.468
680.000	130.000	16.260	2.328
670.000	130.000	17.358	1.356
660.000	130.000	17.651	1.401
650.000	130.000	16.479	2.390
640.000	130.000	19.620	2.776
630.000	130.000	20.709	0.944
620.000	130.000	18.457	0.786
610.000	130.000	17.404	1.944
600.000	130.000	16.067	0.001
590.000	130.000	14.456	1.137
580.000	130.000	12.259	1.311
570.000	130.000	13.137	1.460
560.000	130.000	14.145	1.782
550.000	130.000	18.502	0.788
540.000	130.000	17.797	0.766
530.000	130.000	13.714	1.609
520.000	130.000	24.197	0.016
510.000	130.000	23.382	0.411
500.000	130.000	25.671	-0.286
LINE 140			
500.000	140.000	26.587	-0.510
510.000	140.000	23.327	0.881
520.000	140.000	22.512	1.190
530.000	140.000	23.126	2.096
540.000	140.000	15.490	3.834
550.000	140.000	16.927	1.361
560.000	140.000	19.537	5.955
570.000	140.000	15.994	2.904
580.000	140.000	14.218	2.306
590.000	140.000	13.980	1.372
600.000	140.000	14.703	0.529
610.000	140.000	15.234	1.481
620.000	140.000	16.735	0.630
630.000	140.000	14.740	2.192
640.000	140.000	15.490	1.499
650.000	140.000	18.255	0.334
660.000	140.000	20.983	-0.011
670.000	140.000	19.427	0.687
680.000	140.000	17.907	0.905
690.000	140.000	16.232	1.170
700.000	140.000	17.385	0.347
710.000	140.000	16.754	2.449
720.000	140.000	15.985	2.168
730.000	140.000	16.726	3.696
740.000	140.000	17.770	1.686
750.000	140.000	18.283	1.028
760.000	140.000	17.660	0.575
770.000	140.000	17.001	0.635
780.000	140.000	16.735	0.430
790.000	140.000	17.202	0.180
800.000	140.000	18.219	-0.341
LINE 150			
800.000	150.000	16.443	-0.181
790.000	150.000	17.083	1.956
780.000	150.000	18.274	2.484
770.000	150.000	18.356	0.624
760.000	150.000	18.163	0.293
750.000	150.000	18.466	0.253
740.000	150.000	17.422	0.529
730.000	150.000	16.607	1.109

Line	Station	In-Phase	Quad.
720.000	150.000	16.644	1.646
710.000	150.000	16.396	1.604
700.000	150.000	18.384	0.771
690.000	150.000	18.264	1.929
680.000	150.000	19.756	0.178
670.000	150.000	21.240	1.598
660.000	150.000	17.944	1.161
650.000	150.000	17.157	1.684
640.000	150.000	15.472	1.425
630.000	150.000	14.923	0.841
620.000	150.000	14.437	1.109
610.000	150.000	15.912	0.935
600.000	150.000	16.434	0.676
590.000	150.000	16.543	1.447
580.000	150.000	17.019	1.181
570.000	150.000	17.019	1.021
560.000	150.000	17.065	1.289
550.000	150.000	17.733	2.096
540.000	150.000	17.212	1.385
530.000	150.000	13.394	1.679
520.000	150.000	25.094	1.659
510.000	150.000	22.769	0.924
500.000	150.000	24.600	-0.310
LINE 160			
500.000	160.000	26.824	-0.466
510.000	160.000	25.396	-0.099
520.000	160.000	25.067	0.413
530.000	160.000	23.931	1.940
540.000	160.000	12.295	3.577
550.000	160.000	17.505	4.036
560.000	160.000	19.674	1.201
570.000	160.000	16.635	2.059
580.000	160.000	16.699	2.991
590.000	160.000	14.712	1.039
600.000	160.000	15.856	1.168
610.000	160.000	17.413	0.602
620.000	160.000	15.637	1.583
630.000	160.000	14.053	0.714
640.000	160.000	14.620	0.347
650.000	160.000	17.907	0.466
660.000	160.000	15.985	1.668
670.000	160.000	18.100	0.880
680.000	160.000	17.138	0.915
690.000	160.000	18.438	0.402
700.000	160.000	20.498	0.202
710.000	160.000	20.773	0.266
720.000	160.000	17.907	1.220
730.000	160.000	16.213	0.773
740.000	160.000	16.333	1.383
750.000	160.000	17.221	0.679
760.000	160.000	18.255	0.667
770.000	160.000	18.017	0.580
780.000	160.000	18.255	0.027
790.000	160.000	18.631	-0.036
800.000	160.000	18.210	0.000
LINE 170			
800.000	170.000	18.667	-0.450
790.000	170.000	19.409	0.907
780.000	170.000	20.379	0.725
770.000	170.000	19.336	0.292
760.000	170.000	19.134	-0.086
750.000	170.000	19.152	0.200
740.000	170.000	18.292	1.183
730.000	170.000	18.777	0.641
720.000	170.000	19.766	0.496
710.000	170.000	19.656	0.565
700.000	170.000	17.523	0.384
690.000	170.000	16.012	0.832
680.000	170.000	15.976	0.997
670.000	170.000	18.805	0.470
660.000	170.000	19.171	0.268
650.000	170.000	18.649	0.718
640.000	170.000	17.944	0.472
630.000	170.000	14.648	1.659
620.000	170.000	14.520	0.165
610.000	170.000	18.109	1.587
600.000	170.000	17.971	0.797
590.000	170.000	16.241	1.258
580.000	170.000	16.864	2.906
570.000	170.000	14.850	1.916
560.000	170.000	16.653	1.982
550.000	170.000	20.160	1.422
540.000	170.000	17.907	1.096
530.000	170.000	12.762	1.196
520.000	170.000	23.419	0.731
510.000	170.000	25.918	0.110
500.000	170.000	26.706	-0.042
LINE 200			
500.000	200.000	24.023	0.014
510.000	200.000	23.410	0.101
520.000	200.000	23.684	0.859
530.000	200.000	22.238	1.881
540.000	200.000	13.128	2.603
550.000	200.000	20.508	2.197
560.000	200.000	19.317	1.203
570.000	200.000	16.662	1.104
580.000	200.000	16.443	2.816
590.000	200.000	13.623	1.258
600.000	200.000	17.779	0.586
610.000	200.000	17.953	0.937
620.000	200.000	17.806	0.635
630.000	200.000	17.459	0.946
640.000	200.000	19.024	0.751
650.000	200.000	20.562	0.586
660.000	200.000	20.352	0.282
670.000	200.000	19.573	0.231
680.000	200.000	20.480	-0.235
690.000	200.000	21.798	-0.367
700.000	200.000	21.396	-0.113
710.000	200.000	21.405	-0.147
720.000	200.000	19.711	0.090
730.000	200.000	19.491	-0.014
740.000	200.000	18.713	-0.005
750.000	200.000	19.592	0.231
760.000	200.000	20.334	-0.556
770.000	200.000	20.718	-0.349
780.000	200.000	20.461	-0.567
790.000	200.000	20.718	-0.325
800.000	200.000	20.315	-0.464
LINE 210			
800.000	210.000	20.251	-0.793
790.000	210.000	20.480	-0.672
780.000	210.000	20.205	-0.545
770.000	210.000	20.370	-0.624
760.000	210.000	20.910	-0.747
750.000	210.000	20.992	-0.731
740.000	210.000	20.691	0.034
730.000	210.000	20.736	-0.836
720.000	210.000	21.176	-0.534
710.000	210.000	21.084	0.316
700.000	210.000	19.317	-0.009
690.000	210.000	21.514	-0.091

Line	Station	In-Phase	Quad.
680.000	210.000	22.284	-0.336
670.000	210.000	18.878	0.226
660.000	210.000	19.573	0.224
650.000	210.000	15.884	0.878
640.000	210.000	17.587	1.359
630.000	210.000	21.048	0.479
620.000	210.000	17.990	0.797
610.000	210.000	16.149	1.074
600.000	210.000	17.193	0.931
590.000	210.000	16.864	0.633
580.000	210.000	15.811	1.231
570.000	210.000	15.573	2.375
560.000	210.000	18.466	1.074
550.000	210.000	21.039	0.784
540.000	210.000	19.336	0.881
530.000	210.000	14.346	1.177
520.000	210.000	24.096	0.667
510.000	210.000	23.611	0.119
500.000	210.000	26.193	-0.170
LINE 220			
500.000	220.000	28.372	-0.714
510.000	220.000	24.270	-0.097
520.000	220.000	23.062	0.573
530.000	220.000	21.972	0.922
540.000	220.000	13.330	1.003
550.000	220.000	18.237	0.689
560.000	220.000	19.921	0.931
570.000	220.000	17.898	0.920
580.000	220.000	17.074	0.790
590.000	220.000	16.974	0.786
600.000	220.000	17.614	0.791
610.000	220.000	17.459	0.707
620.000	220.000	16.351	0.711
630.000	220.000	17.697	0.547
640.000	220.000	19.620	0.492
650.000	220.000	19.995	0.525
660.000	220.000	17.898	0.564
670.000	220.000	21.066	0.415
680.000	220.000	20.443	-0.288
690.000	220.000	22.311	-0.365
700.000	220.000	22.228	-0.463
710.000	220.000	20.590	-0.479
720.000	220.000	20.700	-0.519
730.000	220.000	21.817	-0.257
740.000	220.000	21.835	-0.573
750.000	220.000	21.295	-0.617
760.000	220.000	20.544	-0.549
770.000	220.000	19.977	-0.385
780.000	220.000	20.022	-0.576
790.000	220.000	20.242	-0.586
800.000	220.000	18.777	-0.430
LINE 230			
800.000	230.000	18.915	-0.556
790.000	230.000	18.896	-0.209
780.000	230.000	19.674	-0.556
770.000	230.000	20.132	-0.621
760.000	230.000	19.995	-0.474
750.000	230.000	20.151	-0.551
740.000	230.000	20.590	-0.556
730.000	230.000	21.551	-0.615
720.000	230.000	20.901	-0.551
710.000	230.000	20.452	-0.078
700.000	230.000	20.278	0.198
690.000	230.000	19.564	0.514
680.000	230.000	20.306	0.207
670.000	230.000	20.736	0.143
660.000	230.000	20.727	0.117
650.000	230.000	21.624	-0.093
640.000	230.000	19.812	0.358
630.000	230.000	19.564	0.554
620.000	230.000	18.978	0.461
610.000	230.000	17.733	0.608
600.000	230.000	19.903	0.725
590.000	230.000	18.631	0.586
580.000	230.000	15.426	0.413
570.000	230.000	18.402	0.659
560.000	230.000	18.832	1.157
550.000	230.000	18.200	0.885
540.000	230.000	17.697	0.132
530.000	230.000	15.078	0.959
520.000	230.000	20.929	0.863
510.000	230.000	20.526	1.021
500.000	230.000	26.202	-0.033
LINE 240			
500.000	240.000	24.060	0.174
510.000	240.000	23.785	0.463
520.000	240.000	19.693	1.350
530.000	240.000	20.608	1.460
540.000	240.000	13.989	1.497
550.000	240.000	17.752	0.870
560.000	240.000	18.997	0.698
570.000	240.000	19.647	0.911
580.000	240.000	18.063	0.707
590.000	240.000	16.424	0.771
600.000	240.000	18.548	0.560
610.000	240.000	18.182	0.878
620.000	240.000	18.411	0.569
630.000	240.000	17.010	0.786
640.000	240.000	14.840	0.395
650.000	240.000	18.036	-0.501
660.000	240.000	23.062	-0.297
670.000	240.000	21.258	-0.005
680.000	240.000	19.235	0.236
690.000	240.000	19.482	0.222
700.000	240.000	20.224	-0.238
710.000	240.000	20.059	-0.213
720.000	240.000	21.817	-0.512
730.000	240.000	20.883	-0.619
740.000	240.000	21.450	-0.597
750.000	240.000	20.278	-0.633
760.000	240.000	20.571	-0.646
770.000	240.000	20.471	-0.687
780.000	240.000	20.663	-0.610
790.000	240.000	19.656	-0.668
800.000	240.000	19.372	-0.755
LINE 250			
800.000	250.000	19.436	-0.672
790.000	250.000	18.713	-0.444
780.000	250.000	19.125	-0.674
770.000	250.000	19.427	-0.365
760.000	250.000	19.683	-0.369
750.000	250.000	20.022	-0.525
740.000	250.000	20.416	-0.703
730.000	250.000	20.315	-0.172
720.000	250.000	20.214	-0.216
710.000	250.000	22.119	-0.518
700.000	250.000	20.691	-0.007
690.000	250.000	20.471	-0.189
680.000	250.000	20.663	-0.207
670.000	250.000	19.473	0.086
660.000	250.000	19.198	0.321
650.000	250.000	21.166	0.446

Line	Station	In-Phase	Quad.
640.000	250.000	18.868	0.834
630.000	250.000	16.854	0.639
620.000	250.000	16.781	0.652
610.000	250.000	17.797	0.273
600.000	250.000	18.136	0.775
590.000	250.000	18.676	0.547
580.000	250.000	17.632	0.802
570.000	250.000	18.081	0.839
560.000	250.000	19.555	0.793
550.000	250.000	17.642	1.133
540.000	250.000	17.862	0.712
530.000	250.000	14.749	1.295
520.000	250.000	21.798	0.931
510.000	250.000	19.418	1.245
500.000	250.000	23.281	0.316
LINE 260			
500.000	260.000	24.856	0.424
510.000	260.000	22.796	0.865
520.000	260.000	20.068	1.447
530.000	260.000	20.388	2.227
540.000	260.000	15.307	1.096
550.000	260.000	19.024	0.986
560.000	260.000	18.942	1.218
570.000	260.000	18.429	1.495
580.000	260.000	18.594	1.016
590.000	260.000	17.175	1.868
600.000	260.000	18.118	0.703
610.000	260.000	19.583	0.617
620.000	260.000	19.729	1.221
630.000	260.000	17.376	2.162
640.000	260.000	17.010	1.569
650.000	260.000	18.310	1.304
660.000	260.000	17.898	0.856
670.000	260.000	17.880	0.617
680.000	260.000	19.070	0.137
690.000	260.000	19.555	0.580
700.000	260.000	20.809	-0.292
710.000	260.000	20.608	-0.398
720.000	260.000	20.306	-0.310
730.000	260.000	19.967	-0.650
740.000	260.000	19.592	-0.459
750.000	260.000	19.033	-0.332
760.000	260.000	17.806	-0.233
770.000	260.000	18.640	0.086
780.000	260.000	18.658	0.023
790.000	260.000	18.045	0.529
800.000	260.000	18.814	0.817
LINE 270			
800.000	270.000	19.729	-0.773
790.000	270.000	19.812	-0.661
780.000	270.000	20.178	-0.510
770.000	270.000	20.700	-0.490
760.000	270.000	20.407	-0.586
750.000	270.000	19.995	-0.598
740.000	270.000	20.992	-0.554
730.000	270.000	21.020	-0.415
720.000	270.000	21.148	-0.431
710.000	270.000	19.940	-0.292
700.000	270.000	20.992	-0.286
690.000	270.000	21.423	-0.391
680.000	270.000	20.809	1.326
670.000	270.000	20.013	0.350
660.000	270.000	19.089	0.553
650.000	270.000	18.978	0.597
640.000	270.000	20.104	0.521
630.000	270.000	19.253	0.848
620.000	270.000	19.189	1.012
610.000	270.000	18.310	1.113
600.000	270.000	17.889	0.854
590.000	270.000	16.937	0.740
580.000	270.000	18.374	0.790
570.000	270.000	19.775	0.575
560.000	270.000	18.612	0.988
550.000	270.000	18.978	0.924
540.000	270.000	20.343	0.288
530.000	270.000	14.749	1.328
520.000	270.000	21.533	0.771
510.000	270.000	19.509	1.453
500.000	270.000	25.552	0.439
LINE 280			
500.000	280.000	25.094	0.909
510.000	280.000	23.584	1.174
520.000	280.000	20.553	1.547
530.000	280.000	22.128	0.863
540.000	280.000	16.314	1.576
550.000	280.000	20.278	0.604
560.000	280.000	19.903	0.843
570.000	280.000	19.272	1.220
580.000	280.000	19.601	0.817
590.000	280.000	16.882	0.464
600.000	280.000	18.814	0.406
610.000	280.000	20.050	0.817
620.000	280.000	18.502	2.135
630.000	280.000	19.061	0.773
640.000	280.000	19.747	1.078
650.000	280.000	20.654	0.373
660.000	280.000	20.315	0.257
670.000	280.000	20.800	-0.073
680.000	280.000	21.295	-0.112
690.000	280.000	21.231	-0.075
700.000	280.000	21.551	-0.314
710.000	280.000	21.240	-0.387
720.000	280.000	20.535	-0.009
730.000	280.000	20.782	-0.578
740.000	280.000	20.709	-0.622
750.000	280.000	19.967	-0.586
760.000	280.000	19.756	-0.586
770.000	280.000	19.775	-0.635
780.000	280.000	19.784	-0.556
790.000	280.000	18.978	-0.593
800.000	280.000	20.040	-0.384
LINE 290			
800.000	290.000	19.573	-0.834
790.000	290.000	19.620	-0.729
780.000	290.000	20.452	-0.373
770.000	290.000	19.308	0.235
760.000	290.000	20.718	-0.527
750.000	290.000	19.473	-0.378
740.000	290.000	20.471	-0.475
730.000	290.000	20.718	-0.481
720.000	290.000	21.661	-0.626
710.000	290.000	22.338	-0.586
700.000	290.000	22.585	-0.661
690.000	290.000	21.826	-0.409
680.000	290.000	21.276	-0.248
670.000	290.000	21.267	-0.110
660.000	290.000	20.278	0.055
650.000	290.000	20.407	0.430
640.000	290.000	21.570	0.529
630.000	290.000	19.784	0.336
620.000	290.000	18.163	0.720
610.000	290.000	18.402	1.192

Line	Station	In-Phase	Quad.
600.000	290.000	19.473	0.937
590.000	290.000	17.926	0.817
580.000	290.000	17.477	0.701
570.000	290.000	17.193	0.959
560.000	290.000	18.868	0.826
550.000	290.000	19.116	0.055
540.000	290.000	20.141	1.091
530.000	290.000	16.131	2.122
520.000	290.000	23.062	0.999
510.000	290.000	20.791	1.400
500.000	290.000	24.289	0.863
LINE 300			
500.000	300.000	21.679	1.892
510.000	300.000	20.965	1.747
520.000	300.000	22.384	1.475
530.000	300.000	21.826	0.994
540.000	300.000	14.831	1.602
550.000	300.000	21.387	0.946
560.000	300.000	18.658	1.539
570.000	300.000	18.777	1.583
580.000	300.000	18.685	1.705
590.000	300.000	18.493	0.852
600.000	300.000	19.803	0.608
610.000	300.000	19.702	0.477
620.000	300.000	18.896	0.856
630.000	300.000	16.598	1.203
640.000	300.000	19.793	1.390
650.000	300.000	20.635	0.178
660.000	300.000	20.773	0.134
670.000	300.000	19.629	0.893
680.000	300.000	20.571	0.545
690.000	300.000	21.387	-0.389
700.000	300.000	22.329	-0.185
710.000	300.000	23.025	-0.527
720.000	300.000	21.606	0.200
730.000	300.000	21.029	-0.580
740.000	300.000	20.626	-0.297
750.000	300.000	19.738	-0.134
760.000	300.000	20.425	-0.468
770.000	300.000	20.086	-0.494
780.000	300.000	19.857	-0.088
790.000	300.000	19.519	-0.325
800.000	300.000	18.484	-0.305
LINE 310			
800.000	310.000	19.601	-0.646
790.000	310.000	18.978	-0.521
780.000	310.000	19.784	0.119
770.000	310.000	20.031	0.264
760.000	310.000	19.601	0.339
750.000	310.000	19.867	0.148
740.000	310.000	20.278	0.384
730.000	310.000	19.372	0.229
720.000	310.000	18.054	0.582
710.000	310.000	18.255	0.565
700.000	310.000	19.162	0.565
690.000	310.000	20.983	0.130
680.000	310.000	21.240	-0.044
670.000	310.000	20.022	0.319
660.000	310.000	18.805	0.325
650.000	310.000	19.830	0.769
640.000	310.000	19.326	1.091
630.000	310.000	19.281	0.694
620.000	310.000	17.779	0.670
610.000	310.000	18.393	0.472
600.000	310.000	18.887	0.924
590.000	310.000	17.752	0.742
580.000	310.000	17.358	0.786
570.000	310.000	20.425	0.751
560.000	310.000	18.585	1.135
550.000	310.000	19.756	0.753
540.000	310.000	21.295	0.481
530.000	310.000	14.272	1.556
520.000	310.000	23.208	0.674
510.000	310.000	22.393	1.481
500.000	310.000	21.112	1.684
LINE 320			
500.000	320.000	23.647	0.824
510.000	320.000	21.057	1.271
520.000	320.000	22.054	0.712
530.000	320.000	24.142	0.531
540.000	320.000	15.344	1.618
550.000	320.000	21.387	0.576
560.000	320.000	20.095	1.122
570.000	320.000	18.640	1.122
580.000	320.000	19.500	0.894
590.000	320.000	17.953	0.874
600.000	320.000	17.175	0.836
610.000	320.000	19.381	1.183
620.000	320.000	17.193	1.137
630.000	320.000	15.976	1.469
640.000	320.000	17.230	1.054
650.000	320.000	18.841	0.859
660.000	320.000	20.947	0.588
670.000	320.000	20.306	0.817
680.000	320.000	21.066	0.667
690.000	320.000	21.972	0.486
700.000	320.000	19.244	0.727
710.000	320.000	18.081	1.032
720.000	320.000	18.667	0.404
730.000	320.000	19.674	0.501
740.000	320.000	21.560	0.415
750.000	320.000	20.846	-0.183
760.000	320.000	21.349	-0.573
770.000	320.000	20.645	-0.507
780.000	320.000	20.992	0.106
790.000	320.000	20.562	-0.466
800.000	320.000	20.800	-0.229
LINE 330			
800.000	330.000	20.562	-0.661
790.000	330.000	21.084	-0.400
780.000	330.000	20.031	-0.176
770.000	330.000	21.002	-0.341
760.000	330.000	21.093	-0.305
750.000	330.000	21.103	-0.336
740.000	330.000	21.634	-0.240
730.000	330.000	20.416	0.382
720.000	330.000	20.022	0.685
710.000	330.000	19.620	1.545
700.000	330.000	19.207	1.322
690.000	330.000	21.744	0.516
680.000	330.000	23.474	0.023
670.000	330.000	21.744	0.216
660.000	330.000	20.672	0.683
650.000	330.000	20.251	0.611
640.000	330.000	18.328	1.885
630.000	330.000	17.038	1.525
620.000	330.000	16.168	1.284
610.000	330.000	18.402	0.657
600.000	330.000	17.660	0.768
590.000	330.000	16.845	0.924
580.000	330.000	19.885	0.845
570.000	330.000	20.297	0.736

Line	Station	In-Phase	Quad.
560.000	330.000	19.546	0.624
550.000	330.000	21.954	0.677
540.000	330.000	24.014	0.244
530.000	330.000	15.078	1.536
520.000	330.000	25.296	0.492
510.000	330.000	23.263	1.010
500.000	330.000	23.089	1.141
LINE 340			
500.000	340.000	24.096	0.911
510.000	340.000	22.806	0.830
520.000	340.000	21.862	0.826
530.000	340.000	23.922	0.411
540.000	340.000	16.607	2.028
550.000	340.000	19.940	0.323
560.000	340.000	21.753	0.635
570.000	340.000	21.414	1.282
580.000	340.000	21.542	0.841
590.000	340.000	20.983	1.343
600.000	340.000	20.334	1.275
610.000	340.000	20.461	1.199
620.000	340.000	19.747	1.640
630.000	340.000	18.915	1.688
640.000	340.000	18.466	1.135
650.000	340.000	20.196	1.119
660.000	340.000	22.750	0.876
670.000	340.000	22.183	0.916
680.000	340.000	23.776	0.430
690.000	340.000	24.325	0.253
700.000	340.000	21.606	1.196
710.000	340.000	20.727	1.313
720.000	340.000	20.782	1.025
730.000	340.000	20.517	0.729
740.000	340.000	20.654	0.591
750.000	340.000	22.329	-0.402
760.000	340.000	22.576	-0.330
770.000	340.000	21.954	-0.192
780.000	340.000	21.798	-0.497
790.000	340.000	21.927	-0.542
800.000	340.000	21.460	-0.521
LINE 350			
800.000	350.000	24.014	-0.317
790.000	350.000	22.723	-0.378
780.000	350.000	22.585	-0.356
770.000	350.000	22.632	-0.341
760.000	350.000	23.529	-0.194
750.000	350.000	22.759	-0.135
740.000	350.000	21.213	0.064
730.000	350.000	21.606	0.672
720.000	350.000	21.514	0.648
710.000	350.000	22.989	0.387
700.000	350.000	24.472	0.806
690.000	350.000	23.657	0.946
680.000	350.000	23.391	1.025
670.000	350.000	25.698	0.982
660.000	350.000	25.122	1.232
650.000	350.000	26.037	1.293
640.000	350.000	24.536	1.504
630.000	350.000	22.476	1.719
620.000	350.000	22.522	1.635
610.000	350.000	24.499	1.925
600.000	350.000	24.234	1.124
590.000	350.000	20.251	1.589
580.000	350.000	22.201	0.995
570.000	350.000	22.219	1.058
560.000	350.000	23.163	0.859
550.000	350.000	23.144	0.325
540.000	350.000	25.635	0.034
530.000	350.000	15.609	1.637
520.000	350.000	25.104	0.113
510.000	350.000	22.622	1.120
500.000	350.000	21.597	1.596
490.000	350.000	24.169	1.161
LINE 360			
490.000	360.000	24.984	0.771
500.000	360.000	22.796	1.100
510.000	360.000	22.860	0.883
520.000	360.000	24.325	0.505
530.000	360.000	24.481	0.406
540.000	360.000	15.673	-1.356
550.000	360.000	25.708	-0.044
560.000	360.000	25.882	0.764
570.000	360.000	25.305	1.133
580.000	360.000	26.779	1.374
590.000	360.000	24.682	1.322
600.000	360.000	27.081	1.916
610.000	360.000	30.377	1.804
620.000	360.000	29.846	2.164
630.000	360.000	30.981	1.716
640.000	360.000	29.406	1.962
650.000	360.000	31.842	2.006
660.000	360.000	31.320	2.168
670.000	360.000	29.910	1.730
680.000	360.000	32.327	1.466
690.000	360.000	31.887	1.361
700.000	360.000	29.782	1.258
710.000	360.000	29.992	1.036
720.000	360.000	31.530	0.722
730.000	360.000	29.800	0.977
740.000	360.000	27.484	0.764
750.000	360.000	27.813	-0.075
760.000	360.000	26.770	-0.011
770.000	360.000	25.085	-0.058
780.000	360.000	26.449	-0.124
790.000	360.000	27.877	-0.112
800.000	360.000	28.280	0.108
LINE 370			
800.000	370.000	54.391	3.066
790.000	370.000	49.264	2.072
780.000	370.000	45.675	1.567
770.000	370.000	39.862	1.747
760.000	370.000	36.593	0.466
750.000	370.000	40.640	0.966
740.000	370.000	44.769	3.711
730.000	370.000	47.122	1.953
720.000	370.000	49.365	2.579
710.000	370.000	51.132	3.105
700.000	370.000	51.654	3.289
690.000	370.000	48.898	3.336
680.000	370.000	47.827	3.888
670.000	370.000	47.406	3.785
660.000	370.000	48.046	3.941
650.000	370.000	48.367	3.943
640.000	370.000	46.719	4.255
630.000	370.000	46.536	4.255
620.000	370.000	51.205	3.923
610.000	370.000	49.008	4.005
600.000	370.000	48.999	3.254
590.000	370.000	49.630	3.469
580.000	370.000	50.198	2.780
570.000	370.000	44.577	2.107
560.000	370.000	41.326	1.152
550.000	370.000	38.497	0.757

Line	Station	In-Phase	Quad.
540.000	370.000	35.385	0.082
530.000	370.000	21.469	1.479
520.000	370.000	25.753	0.356
510.000	370.000	25.790	1.431
500.000	370.000	22.705	1.447
490.000	370.000	25.753	1.139
LINE 380			
490.000	380.000	25.296	1.025
500.000	380.000	22.540	1.409
510.000	380.000	25.653	4.060
520.000	380.000	30.752	1.565
530.000	380.000	33.966	0.185
540.000	380.000	26.220	1.104
550.000	380.000	26.229	1.315
560.000	380.000	32.556	1.102
570.000	380.000	30.560	1.262
580.000	380.000	29.296	1.234
590.000	380.000	24.417	0.880
600.000	380.000	21.084	1.583
610.000	380.000	18.850	1.170
620.000	380.000	17.779	1.497
630.000	380.000	14.996	1.334
640.000	380.000	15.142	0.606
650.000	380.000	14.044	1.596
660.000	380.000	11.490	0.861
670.000	380.000	11.077	1.166
680.000	380.000	10.107	0.898
690.000	380.000	11.883	1.190
700.000	380.000	12.432	1.646
710.000	380.000	19.747	1.558
720.000	380.000	17.340	2.074
730.000	380.000	26.001	1.686
740.000	380.000	31.869	1.416
750.000	380.000	39.761	0.782
760.000	380.000	35.541	0.604
770.000	380.000	38.131	0.507
780.000	380.000	40.374	1.883
790.000	380.000	47.314	1.993
800.000	380.000	58.877	2.320
LINE 490			
470.000	490.000	26.349	2.574
480.000	490.000	25.067	3.257
490.000	490.000	23.812	2.998
500.000	490.000	23.657	1.967
510.000	490.000	23.684	0.380
520.000	490.000	24.930	4.777
530.000	490.000	25.012	0.468
540.000	490.000	23.950	0.113
550.000	490.000	21.835	0.396
560.000	490.000	16.333	1.315
570.000	490.000	22.503	0.622
580.000	490.000	20.800	0.911
590.000	490.000	22.366	13.021
600.000	490.000	17.496	1.344
610.000	490.000	17.038	1.758
620.000	490.000	18.667	1.054
630.000	490.000	16.479	1.220
640.000	490.000	17.385	1.051
650.000	490.000	18.603	0.606
660.000	490.000	18.274	0.769
670.000	490.000	17.496	0.681
680.000	490.000	13.797	1.289
690.000	490.000	11.874	1.319
700.000	490.000	13.156	0.472
710.000	490.000	13.311	0.795
720.000	490.000	16.369	1.548
730.000	490.000	15.865	1.185
740.000	490.000	17.129	0.325
750.000	490.000	18.603	-0.185
760.000	490.000	18.438	0.003
770.000	490.000	18.942	-0.031
780.000	490.000	20.654	-0.036
790.000	490.000	21.927	2.570
800.000	490.000	19.876	-0.205
LINE 500			
800.000	500.000	20.178	1.526
790.000	500.000	19.775	1.240
780.000	500.000	19.921	0.384
770.000	500.000	19.272	0.604
760.000	500.000	17.715	0.213
750.000	500.000	16.635	-0.027
740.000	500.000	16.021	0.328
730.000	500.000	17.166	0.183
720.000	500.000	18.374	0.244
710.000	500.000	14.392	1.056
700.000	500.000	13.641	1.102
690.000	500.000	14.080	0.859
680.000	500.000	15.161	1.131
670.000	500.000	16.507	4.073
660.000	500.000	17.312	0.547
650.000	500.000	18.081	0.670
640.000	500.000	17.605	0.586
630.000	500.000	16.360	0.659
620.000	500.000	17.706	0.863
610.000	500.000	16.626	2.164
600.000	500.000	17.605	0.870
590.000	500.000	18.200	0.779
580.000	500.000	18.521	0.672
570.000	500.000	20.315	0.679
560.000	500.000	19.006	0.992
550.000	500.000	16.260	0.716
540.000	500.000	24.508	-0.349
530.000	500.000	26.403	4.435
520.000	500.000	24.545	-0.196
510.000	500.000	24.362	-0.034
500.000	500.000	22.677	0.621
490.000	500.000	21.432	0.376
480.000	500.000	22.576	1.324
470.000	500.000	21.084	-0.701
LINE 510			
470.000	510.000	23.236	2.928
480.000	510.000	23.098	2.622
490.000	510.000	26.568	14.624
500.000	510.000	22.494	0.492
510.000	510.000	22.668	1.984
520.000	510.000	25.424	4.804
530.000	510.000	24.765	-0.220
540.000	510.000	24.481	0.630
550.000	510.000	24.664	1.852
560.000	510.000	16.946	1.407
570.000	510.000	16.909	1.255
580.000	510.000	19.894	1.703
590.000	510.000	19.399	1.190
600.000	510.000	14.767	0.995
610.000	510.000	15.060	1.039
620.000	510.000	17.266	0.984
630.000	510.000	15.957	0.995
640.000	510.000	14.740	0.113
650.000	510.000	13.174	1.131
660.000	510.000	14.932	0.665
670.000	510.000	15.893	1.148
680.000	510.000	13.119	1.196

Line	Station	In-Phase	Quad.
690.000	510.000	13.925	0.883
700.000	510.000	13.037	0.966
710.000	510.000	13.522	1.157
720.000	510.000	21.899	6.879
730.000	510.000	19.656	1.389
740.000	510.000	17.468	0.106
750.000	510.000	18.704	0.139
760.000	510.000	20.874	5.843
770.000	510.000	29.498	39.122
780.000	510.000	23.190	12.946
790.000	510.000	20.782	5.245
800.000	510.000	19.272	0.066
LINE 520			
800.000	520.000	19.033	-0.363
790.000	520.000	19.464	-0.097
780.000	520.000	19.162	0.363
770.000	520.000	21.880	6.159
760.000	520.000	19.610	-0.672
750.000	520.000	21.084	6.076
740.000	520.000	17.541	1.223
730.000	520.000	18.649	0.214
720.000	520.000	19.079	-0.012
710.000	520.000	15.408	0.545
700.000	520.000	15.847	6.771
690.000	520.000	13.586	1.982
680.000	520.000	16.662	12.873
670.000	520.000	12.844	1.313
660.000	520.000	13.842	1.855
650.000	520.000	14.584	4.323
640.000	520.000	15.811	7.274
630.000	520.000	16.168	1.422
620.000	520.000	17.303	0.795
610.000	520.000	15.847	0.942
600.000	520.000	13.183	0.672
590.000	520.000	15.124	1.084
580.000	520.000	17.825	3.923
570.000	520.000	20.187	0.757
560.000	520.000	16.965	2.719
550.000	520.000	20.452	7.757
540.000	520.000	22.952	-0.791
530.000	520.000	24.197	0.167
520.000	520.000	23.391	-0.209
510.000	520.000	25.479	-0.659
500.000	520.000	22.430	0.589
490.000	520.000	23.647	0.270
480.000	520.000	14.977	4.169
470.000	520.000	20.718	2.302
LINE 530			
470.000	530.000	22.036	-0.854
480.000	530.000	19.308	2.458
490.000	530.000	19.198	2.300
500.000	530.000	22.421	1.920
510.000	530.000	22.961	4.523
520.000	530.000	28.884	22.143
530.000	530.000	27.383	19.857
540.000	530.000	22.632	7.684
550.000	530.000	21.322	3.871
560.000	530.000	15.618	1.429
570.000	530.000	16.241	8.303
580.000	530.000	19.491	4.810
590.000	530.000	17.404	0.744
600.000	530.000	17.138	-0.058
610.000	530.000	17.193	0.995
620.000	530.000	17.248	1.385
630.000	530.000	15.774	0.236
640.000	530.000	15.261	0.279
650.000	530.000	15.536	1.306
660.000	530.000	12.918	1.133
670.000	530.000	15.829	5.663
680.000	530.000	12.579	1.141
690.000	530.000	12.817	1.469
700.000	530.000	13.549	1.258
710.000	530.000	14.877	0.571
720.000	530.000	17.449	-0.299
730.000	530.000	19.784	1.435
740.000	530.000	20.104	1.444
750.000	530.000	20.379	0.815
760.000	530.000	20.626	0.521
770.000	530.000	20.077	-0.135
780.000	530.000	20.059	-0.270
790.000	530.000	19.152	-0.393
800.000	530.000	18.457	-0.571
LINE 540			
800.000	540.000	18.301	0.538
790.000	540.000	18.960	6.015
780.000	540.000	19.409	2.215
770.000	540.000	20.398	0.681
760.000	540.000	19.446	-0.222
750.000	540.000	19.253	1.107
740.000	540.000	19.143	0.679
730.000	540.000	19.610	0.534
720.000	540.000	19.601	5.078
710.000	540.000	16.644	3.522
700.000	540.000	18.466	3.132
690.000	540.000	14.996	2.078
680.000	540.000	14.721	1.580
670.000	540.000	13.824	1.344
660.000	540.000	10.391	1.931
650.000	540.000	13.229	2.315
640.000	540.000	14.319	-1.104
630.000	540.000	13.064	7.191
620.000	540.000	19.171	-1.089
610.000	540.000	18.850	0.940
600.000	540.000	16.974	1.019
590.000	540.000	15.646	1.341
580.000	540.000	17.303	1.163
570.000	540.000	20.287	0.744
560.000	540.000	10.153	0.924
550.000	540.000	18.621	0.169
540.000	540.000	19.665	0.378
530.000	540.000	20.965	0.492
520.000	540.000	22.146	0.418
510.000	540.000	23.181	0.119
500.000	540.000	21.835	0.330
490.000	540.000	20.214	0.964
480.000	540.000	17.642	0.238
470.000	540.000	21.002	1.644
460.000	540.000	16.653	-2.046
LINE 550			
460.000	550.000	23.538	0.003
470.000	550.000	18.027	-1.076
480.000	550.000	19.702	0.543
490.000	550.000	18.337	0.619
500.000	550.000	22.329	1.275
510.000	550.000	22.952	9.255
520.000	550.000	22.860	1.322
530.000	550.000	21.835	4.029
540.000	550.000	20.837	3.546
550.000	550.000	19.738	1.789
560.000	550.000	19.674	0.312
570.000	550.000	9.540	2.243
580.000	550.000	19.638	1.126

Line	Station	In-Phase	Quad.
590.000	550.000	16.983	1.181
600.000	550.000	15.454	1.082
610.000	550.000	15.307	1.260
620.000	550.000	23.428	15.390
630.000	550.000	19.207	1.820
640.000	550.000	18.585	4.351
650.000	550.000	19.162	10.833
660.000	550.000	13.037	2.026
670.000	550.000	11.380	1.613
680.000	550.000	14.089	1.907
690.000	550.000	15.408	1.038
700.000	550.000	22.897	14.109
710.000	550.000	17.935	2.651
720.000	550.000	16.314	3.413
730.000	550.000	19.015	-0.220
740.000	550.000	20.837	-0.341
750.000	550.000	19.967	-0.622
760.000	550.000	19.317	-0.823
770.000	550.000	19.784	-0.773
780.000	550.000	19.116	0.295
790.000	550.000	19.747	-0.354
800.000	550.000	20.068	-0.567
LINE 560			
800.000	560.000	15.344	6.557
790.000	560.000	15.051	-3.798
780.000	560.000	19.876	0.011
770.000	560.000	19.116	-0.529
760.000	560.000	18.741	-0.727
750.000	560.000	18.411	-0.161
740.000	560.000	27.960	24.381
730.000	560.000	19.290	4.801
720.000	560.000	21.121	8.246
710.000	560.000	16.058	-0.119
700.000	560.000	16.003	0.505
690.000	560.000	16.580	0.633
680.000	560.000	13.788	1.447
670.000	560.000	13.183	1.313
660.000	560.000	11.389	1.587
650.000	560.000	12.423	3.239
640.000	560.000	15.179	1.379
630.000	560.000	16.314	1.069
620.000	560.000	17.514	1.153
610.000	560.000	18.594	0.795
600.000	560.000	15.719	1.642
590.000	560.000	14.648	1.697
580.000	560.000	16.149	1.308
570.000	560.000	19.876	3.695
560.000	560.000	9.942	-0.332
550.000	560.000	18.502	0.463
540.000	560.000	20.517	0.464
530.000	560.000	21.039	0.720
520.000	560.000	21.222	0.986
510.000	560.000	22.769	2.587
500.000	560.000	22.073	0.391
490.000	560.000	20.040	0.959
480.000	560.000	17.486	0.749
470.000	560.000	16.241	2.285
460.000	560.000	19.171	2.603
450.000	560.000	21.185	1.528
LINE 570			
450.000	570.000	20.315	2.170
460.000	570.000	20.517	1.473
470.000	570.000	18.374	1.442
480.000	570.000	19.674	1.815
490.000	570.000	19.006	1.521
500.000	570.000	22.348	6.344
510.000	570.000	21.918	2.888
520.000	570.000	22.778	5.694
530.000	570.000	21.927	0.804
540.000	570.000	20.617	1.028
550.000	570.000	19.519	4.733
560.000	570.000	18.255	0.479
570.000	570.000	13.403	13.813
580.000	570.000	18.154	1.218
590.000	570.000	16.589	2.065
600.000	570.000	16.351	1.089
610.000	570.000	17.587	6.331
620.000	570.000	18.704	6.432
630.000	570.000	18.951	7.616
640.000	570.000	18.182	0.716
650.000	570.000	14.721	1.455
660.000	570.000	13.668	1.763
670.000	570.000	14.437	1.089
680.000	570.000	14.209	0.955
690.000	570.000	14.272	1.627
700.000	570.000	19.262	8.874
710.000	570.000	17.138	-0.192
720.000	570.000	18.924	0.205
730.000	570.000	19.464	-0.514
740.000	570.000	19.079	-0.293
750.000	570.000	19.610	-0.486
760.000	570.000	19.225	-0.165
770.000	570.000	19.198	0.251
780.000	570.000	18.722	0.055
790.000	570.000	19.592	0.078
800.000	570.000	11.361	2.864
LINE 580			
800.000	580.000	18.274	0.306
790.000	580.000	19.793	3.752
780.000	580.000	19.491	-1.005
770.000	580.000	19.977	0.633
760.000	580.000	18.228	1.074
750.000	580.000	20.782	8.051
740.000	580.000	19.784	1.284
730.000	580.000	19.409	3.724
720.000	580.000	20.526	3.504
710.000	580.000	19.281	0.749
700.000	580.000	17.303	-0.036
690.000	580.000	17.797	0.334
680.000	580.000	14.520	0.944
670.000	580.000	11.929	1.740
660.000	580.000	13.540	1.639
650.000	580.000	13.366	3.336
640.000	580.000	14.364	2.186
630.000	580.000	15.289	1.572
620.000	580.000	17.065	1.194
610.000	580.000	16.406	1.620
600.000	580.000	16.946	0.955
590.000	580.000	16.708	0.876
580.000	580.000	17.505	1.468
570.000	580.000	17.422	1.714
560.000	580.000	12.936	1.407
550.000	580.000	15.463	1.242
540.000	580.000	19.253	0.643
530.000	580.000	20.022	0.398
520.000	580.000	21.753	0.001
510.000	580.000	25.167	-0.191
500.000	580.000	22.769	0.137
490.000	580.000	20.407	1.587
480.000	580.000	22.311	12.781
470.000	580.000	19.345	1.793
460.000	580.000	18.539	1.440

Line	Station	In-Phase	Quad.
450.000	580.000	19.061	2.135
LINE 590			
450.000	590.000	19.729	1.186
460.000	590.000	19.656	1.289
470.000	590.000	19.427	5.413
480.000	590.000	18.356	0.613
490.000	590.000	18.658	0.670
500.000	590.000	22.869	-0.360
510.000	590.000	23.849	-0.126
520.000	590.000	24.636	0.907
530.000	590.000	21.661	1.054
540.000	590.000	21.753	3.472
550.000	590.000	18.237	5.661
560.000	590.000	15.628	3.641
570.000	590.000	16.434	2.680
580.000	590.000	18.429	1.539
590.000	590.000	17.688	2.684
600.000	590.000	15.921	1.484
610.000	590.000	15.747	2.447
620.000	590.000	16.516	1.227
630.000	590.000	15.600	1.635
640.000	590.000	15.106	1.672
650.000	590.000	14.538	3.533
660.000	590.000	14.474	5.199
670.000	590.000	14.218	6.717
680.000	590.000	14.254	1.065
690.000	590.000	15.738	1.054
700.000	590.000	19.903	-0.205
710.000	590.000	18.814	0.507
720.000	590.000	21.487	7.623
730.000	590.000	19.354	0.814
740.000	590.000	19.436	-0.097
750.000	590.000	20.178	2.342
760.000	590.000	19.125	0.935
770.000	590.000	18.466	0.110
780.000	590.000	19.803	0.510
790.000	590.000	18.924	0.545
800.000	590.000	19.262	-0.527
LINE 600			
800.000	600.000	19.647	-0.391
790.000	600.000	19.363	0.049
780.000	600.000	19.555	0.696
770.000	600.000	19.116	-0.268
760.000	600.000	19.152	-0.560
750.000	600.000	19.592	-0.758
740.000	600.000	19.912	-0.677
730.000	600.000	29.452	34.476
720.000	600.000	20.773	12.744
710.000	600.000	16.717	6.052
700.000	600.000	18.127	2.392
690.000	600.000	19.784	3.799
680.000	600.000	16.424	5.150
670.000	600.000	18.731	21.556
660.000	600.000	13.412	6.377
650.000	600.000	13.797	7.182
640.000	600.000	15.151	2.272
630.000	600.000	16.589	7.048
620.000	600.000	17.431	5.651
610.000	600.000	18.466	4.650
600.000	600.000	16.003	1.725
590.000	600.000	16.104	2.001
580.000	600.000	15.811	2.010
570.000	600.000	16.424	4.600
560.000	600.000	16.213	2.210
550.000	600.000	15.261	2.776
540.000	600.000	17.935	7.618
530.000	600.000	21.634	0.716
520.000	600.000	24.646	0.093
510.000	600.000	25.360	-0.762
500.000	600.000	22.769	-0.402
490.000	600.000	20.544	-0.011
480.000	600.000	18.768	0.415
470.000	600.000	19.830	0.591
460.000	600.000	18.631	1.319
450.000	600.000	20.050	0.593
440.000	600.000	18.915	0.920
LINE 610			
440.000	610.000	19.033	0.510
450.000	610.000	20.214	0.903
460.000	610.000	19.399	0.382
470.000	610.000	20.214	8.154
480.000	610.000	19.225	0.916
490.000	610.000	18.969	4.299
500.000	610.000	22.613	0.082
510.000	610.000	23.529	-0.141
520.000	610.000	24.728	0.753
530.000	610.000	23.620	-0.170
540.000	610.000	26.779	5.991
550.000	610.000	17.322	0.235
560.000	610.000	17.184	0.363
570.000	610.000	15.829	3.660
580.000	610.000	15.682	5.587
590.000	610.000	15.682	1.920
600.000	610.000	15.729	0.907
610.000	610.000	15.261	0.960
620.000	610.000	15.847	0.361
630.000	610.000	16.159	0.775
640.000	610.000	14.648	1.155
650.000	610.000	14.850	0.867
660.000	610.000	14.089	0.898
670.000	610.000	13.705	1.003
680.000	610.000	13.659	0.977
690.000	610.000	15.701	0.650
700.000	610.000	19.336	-0.534
710.000	610.000	17.788	-0.220
720.000	610.000	15.646	-0.012
730.000	610.000	19.491	-0.437
740.000	610.000	19.683	-0.810
750.000	610.000	19.061	-0.747
760.000	610.000	19.638	-0.832
770.000	610.000	19.363	-0.598
780.000	610.000	20.315	-0.859
790.000	610.000	19.427	-0.700
800.000	610.000	19.024	-0.665
LINE 620			
800.000	620.000	20.104	0.242
790.000	620.000	20.004	-0.334
780.000	620.000	19.876	-0.457
770.000	620.000	19.290	-0.257
760.000	620.000	19.930	-0.349
750.000	620.000	18.814	-0.277
740.000	620.000	18.173	-0.338
730.000	620.000	18.264	-0.016
720.000	620.000	17.761	0.501
710.000	620.000	16.003	0.676
700.000	620.000	18.356	-0.214
690.000	620.000	14.685	1.045
680.000	620.000	12.991	0.916
670.000	620.000	14.474	0.564
660.000	620.000	14.520	1.133
650.000	620.000	18.100	6.379
640.000	620.000	15.783	0.676

Line	Station	In-Phase	Quad.
630.000	620.000	16.278	0.944
620.000	620.000	16.681	0.450
610.000	620.000	15.884	0.757
600.000	620.000	18.567	0.275
590.000	620.000	19.354	2.373
580.000	620.000	14.566	1.850
570.000	620.000	14.199	4.113
560.000	620.000	16.690	13.196
550.000	620.000	16.076	10.850
540.000	620.000	16.351	5.745
530.000	620.000	17.129	2.170
520.000	620.000	20.983	0.674
510.000	620.000	20.910	2.372
500.000	620.000	20.224	0.648
490.000	620.000	18.978	1.479
480.000	620.000	17.806	0.826
470.000	620.000	17.184	2.133
460.000	620.000	19.125	4.696
450.000	620.000	19.656	7.517
440.000	620.000	18.457	0.435
430.000	620.000	21.918	0.207
LINE 630			
430.000	630.000	20.278	2.445
440.000	630.000	19.720	0.946
450.000	630.000	18.255	0.667
460.000	630.000	17.413	0.824
470.000	630.000	18.027	1.225
480.000	630.000	16.744	1.014
490.000	630.000	16.744	1.012
500.000	630.000	18.548	0.384
510.000	630.000	19.537	0.292
520.000	630.000	20.736	2.120
530.000	630.000	18.814	0.806
540.000	630.000	16.003	0.624
550.000	630.000	14.227	0.742
560.000	630.000	14.126	1.385
570.000	630.000	12.057	1.714
580.000	630.000	12.616	1.271
590.000	630.000	13.476	0.872
600.000	630.000	18.347	0.176
610.000	630.000	18.896	0.097
620.000	630.000	16.946	0.319
630.000	630.000	14.025	1.721
640.000	630.000	15.912	2.482
650.000	630.000	14.291	0.970
660.000	630.000	13.101	1.530
670.000	630.000	14.373	0.850
680.000	630.000	14.639	0.617
690.000	630.000	12.726	1.176
700.000	630.000	17.385	0.161
710.000	630.000	17.459	-0.400
720.000	630.000	17.816	-0.207
730.000	630.000	17.065	0.632
740.000	630.000	18.676	3.254
750.000	630.000	16.570	1.907
760.000	630.000	18.173	0.806
770.000	630.000	19.620	0.214
780.000	630.000	18.658	-0.172
790.000	630.000	19.033	1.798
800.000	630.000	19.683	-0.613
LINE 640			
800.000	640.000	17.853	0.543
790.000	640.000	17.898	-0.349
780.000	640.000	19.509	-0.598
770.000	640.000	19.436	-0.700
760.000	640.000	16.763	0.053
750.000	640.000	17.367	-0.003
740.000	640.000	18.640	-0.200
730.000	640.000	17.175	0.084
720.000	640.000	18.145	-0.132
710.000	640.000	16.378	-0.064
700.000	640.000	15.912	-0.068
690.000	640.000	14.419	0.788
680.000	640.000	14.419	0.775
670.000	640.000	13.788	0.975
660.000	640.000	14.263	4.490
650.000	640.000	13.119	1.176
640.000	640.000	14.877	0.964
630.000	640.000	15.948	1.435
620.000	640.000	18.850	3.199
610.000	640.000	17.761	0.071
600.000	640.000	20.068	-0.365
590.000	640.000	17.669	-0.279
580.000	640.000	15.792	3.873
570.000	640.000	15.298	5.374
560.000	640.000	13.971	3.167
550.000	640.000	17.083	0.082
540.000	640.000	17.779	0.944
530.000	640.000	15.106	0.927
520.000	640.000	17.266	0.363
510.000	640.000	18.163	0.369
500.000	640.000	16.699	1.218
490.000	640.000	15.243	1.014
480.000	640.000	17.496	0.038
470.000	640.000	17.212	0.299
460.000	640.000	17.797	0.437
450.000	640.000	18.768	0.185
440.000	640.000	19.620	2.283
430.000	640.000	18.988	0.350
LINE 650			
430.000	650.000	22.439	0.457
440.000	650.000	20.800	0.771
450.000	650.000	19.354	0.652
460.000	650.000	18.274	0.531
470.000	650.000	17.395	0.610
480.000	650.000	16.918	0.404
490.000	650.000	17.468	0.547
500.000	650.000	16.378	0.676
510.000	650.000	17.028	0.398
520.000	650.000	17.468	0.576
530.000	650.000	16.891	0.733
540.000	650.000	20.407	28.980
550.000	650.000	21.560	16.004
560.000	650.000	20.965	13.009
570.000	650.000	19.638	3.832
580.000	650.000	16.461	0.407
590.000	650.000	17.816	-0.202
600.000	650.000	20.260	-0.826
610.000	650.000	19.665	-0.700
620.000	650.000	19.473	-0.191
630.000	650.000	19.345	-0.650
640.000	650.000	16.854	-0.055
650.000	650.000	16.452	0.218
660.000	650.000	14.566	1.017
670.000	650.000	13.110	0.916
680.000	650.000	14.895	0.613
690.000	650.000	15.774	0.378
700.000	650.000	15.564	0.275
710.000	650.000	16.360	0.235
720.000	650.000	16.864	-0.286
730.000	650.000	18.127	-0.393
740.000	650.000	19.052	-0.435

Line	Station	In-Phase	Quad.
750.000	650.000	19.070	-0.582
760.000	650.000	18.585	-0.398
770.000	650.000	15.847	0.022
780.000	650.000	18.878	-0.459
790.000	650.000	19.775	3.408
800.000	650.000	20.434	-0.033
LINE 660			
800.000	660.000	19.720	0.771
790.000	660.000	19.546	0.031
780.000	660.000	20.160	-0.536
770.000	660.000	20.031	1.036
760.000	660.000	18.612	0.319
750.000	660.000	17.889	-0.499
740.000	660.000	18.301	0.295
730.000	660.000	17.715	-0.468
720.000	660.000	17.916	-0.450
710.000	660.000	17.980	-0.236
700.000	660.000	15.829	0.235
690.000	660.000	14.263	0.755
680.000	660.000	16.342	0.406
670.000	660.000	14.721	0.918
660.000	660.000	14.007	0.703
650.000	660.000	16.369	0.407
640.000	660.000	17.248	0.400
630.000	660.000	17.623	-0.497
620.000	660.000	20.755	-0.960
610.000	660.000	20.654	-0.935
600.000	660.000	20.224	-0.791
590.000	660.000	20.278	-0.907
580.000	660.000	18.832	-0.711
570.000	660.000	18.475	-0.588
560.000	660.000	19.116	0.735
550.000	660.000	24.178	22.925
540.000	660.000	19.134	8.114
530.000	660.000	15.188	4.178
520.000	660.000	15.289	8.867
510.000	660.000	16.580	8.657
500.000	660.000	13.962	0.972
490.000	660.000	13.284	1.047
480.000	660.000	16.250	0.343
470.000	660.000	16.333	0.589
460.000	660.000	15.847	0.802
450.000	660.000	18.768	0.238
440.000	660.000	19.620	0.018
430.000	660.000	19.812	4.012
420.000	660.000	23.007	0.088
LINE 670			
420.000	670.000	22.265	0.242
430.000	670.000	19.555	0.463
440.000	670.000	17.028	0.742
450.000	670.000	18.777	1.734
460.000	670.000	18.951	0.475
470.000	670.000	15.628	1.036
480.000	670.000	16.781	2.351
490.000	670.000	15.738	1.258
500.000	670.000	15.198	0.606
510.000	670.000	16.626	0.227
520.000	670.000	15.508	0.589
530.000	670.000	16.406	3.617
540.000	670.000	17.193	0.257
550.000	670.000	19.125	-0.260
560.000	670.000	18.859	-0.387
570.000	670.000	19.702	9.584
580.000	670.000	21.377	7.667
590.000	670.000	18.393	-0.395
600.000	670.000	19.345	-0.757
610.000	670.000	18.365	-0.749
620.000	670.000	19.839	1.809
630.000	670.000	19.290	-1.142
640.000	670.000	18.493	-0.433
650.000	670.000	16.781	0.154
660.000	670.000	17.138	0.176
670.000	670.000	15.573	0.722
680.000	670.000	15.133	1.649
690.000	670.000	16.305	0.183
700.000	670.000	15.179	0.325
710.000	670.000	16.891	0.023
720.000	670.000	17.477	-0.373
730.000	670.000	17.111	-0.189
740.000	670.000	17.157	-0.277
750.000	670.000	17.468	-0.440
760.000	670.000	19.143	1.659
770.000	670.000	18.741	-0.876
780.000	670.000	19.885	2.414
790.000	670.000	19.912	-0.198
800.000	670.000	18.814	-1.021
LINE 680			
800.000	680.000	17.395	-0.927
790.000	680.000	17.816	-0.780
780.000	680.000	18.493	-0.681
770.000	680.000	16.690	0.665
760.000	680.000	17.871	-0.723
750.000	680.000	18.402	-0.927
740.000	680.000	19.546	-0.863
730.000	680.000	18.850	-0.782
720.000	680.000	18.859	-0.889
710.000	680.000	17.743	-0.867
700.000	680.000	15.747	-0.380
690.000	680.000	15.087	0.378
680.000	680.000	16.452	-0.090
670.000	680.000	18.649	7.164
660.000	680.000	17.797	1.594
650.000	680.000	17.587	-0.470
640.000	680.000	18.228	-0.308
630.000	680.000	19.180	1.163
620.000	680.000	21.203	4.345
610.000	680.000	17.587	-0.997
600.000	680.000	15.179	-0.281
590.000	680.000	18.694	-0.101
580.000	680.000	19.089	-0.180
570.000	680.000	19.317	0.264
560.000	680.000	18.768	0.060
550.000	680.000	18.594	0.056
540.000	680.000	19.089	-0.426
530.000	680.000	18.576	-0.167
520.000	680.000	16.149	-0.009
510.000	680.000	14.950	0.481
500.000	680.000	14.337	0.738
490.000	680.000	14.218	0.859
480.000	680.000	17.550	0.108
470.000	680.000	16.461	0.110
460.000	680.000	17.788	-0.088
450.000	680.000	17.083	0.181
440.000	680.000	13.412	1.262
430.000	680.000	21.176	-0.463
420.000	680.000	12.808	2.118
410.000	680.000	15.133	0.984
400.000	680.000	23.703	-0.034
390.000	680.000	24.051	0.180
380.000	680.000	27.273	0.970
370.000	680.000	38.003	1.484
360.000	680.000	9.640	-1.532

Line	Station	In-Phase	Quad.
350.000	680.000	43.698	3.037
340.000	680.000	49.493	3.540
330.000	680.000	32.190	1.675
320.000	680.000	24.389	2.682
310.000	680.000	19.693	3.129
300.000	680.000	19.803	2.473
LINE 690			
300.000	690.000	26.541	4.490
310.000	690.000	26.541	3.614
320.000	690.000	26.669	4.674
330.000	690.000	32.886	2.963
340.000	690.000	40.750	2.732
350.000	690.000	54.977	4.691
360.000	690.000	74.277	5.034
370.000	690.000	-40.750	-5.277
380.000	690.000	49.273	2.585
390.000	690.000	29.498	1.049
400.000	690.000	23.337	0.764
410.000	690.000	17.431	1.387
420.000	690.000	16.232	1.106
430.000	690.000	13.568	1.245
440.000	690.000	16.488	-0.200
450.000	690.000	14.446	1.429
460.000	690.000	16.131	0.376
470.000	690.000	20.361	1.758
480.000	690.000	16.754	0.610
490.000	690.000	17.019	1.547
500.000	690.000	13.522	0.885
510.000	690.000	15.765	0.643
520.000	690.000	16.314	0.652
530.000	690.000	16.122	2.638
540.000	690.000	17.459	0.540
550.000	690.000	17.385	0.042
560.000	690.000	16.754	-0.036
570.000	690.000	17.926	-0.589
580.000	690.000	14.511	1.795
590.000	690.000	18.960	-0.872
600.000	690.000	18.649	-0.667
610.000	690.000	18.823	-0.657
620.000	690.000	19.564	-0.824
630.000	690.000	18.228	-0.512
640.000	690.000	16.617	-0.235
650.000	690.000	15.865	0.578
660.000	690.000	16.305	0.060
670.000	690.000	17.953	-0.497
680.000	690.000	18.200	-0.523
690.000	690.000	18.210	-0.112
700.000	690.000	13.321	0.402
710.000	690.000	13.806	0.078
720.000	690.000	17.871	-0.527
730.000	690.000	17.990	0.338
740.000	690.000	18.667	0.275
750.000	690.000	18.283	-0.637
760.000	690.000	18.402	-0.648
770.000	690.000	17.092	-0.637
780.000	690.000	17.761	-0.654
790.000	690.000	17.523	-0.893
800.000	690.000	17.166	0.569
LINE 700			
800.000	700.000	16.149	4.828
790.000	700.000	16.406	3.285
780.000	700.000	17.239	1.936
770.000	700.000	16.360	2.291
760.000	700.000	18.859	-0.078
750.000	700.000	18.905	0.402
740.000	700.000	18.054	-0.135
730.000	700.000	17.788	0.246
720.000	700.000	16.617	0.268
710.000	700.000	17.651	-0.316
700.000	700.000	17.038	0.091
690.000	700.000	17.038	0.135
680.000	700.000	17.129	0.115
670.000	700.000	16.095	0.023
660.000	700.000	16.965	-0.321
650.000	700.000	16.644	0.861
640.000	700.000	16.039	0.328
630.000	700.000	16.909	0.202
620.000	700.000	17.724	0.134
610.000	700.000	18.100	-0.080
600.000	700.000	18.100	-0.380
590.000	700.000	18.200	0.007
580.000	700.000	18.969	0.108
570.000	700.000	19.812	-0.084
560.000	700.000	19.308	-0.433
550.000	700.000	18.027	-0.485
540.000	700.000	20.178	-0.430
530.000	700.000	18.420	0.264
520.000	700.000	17.212	-0.084
510.000	700.000	16.744	0.494
500.000	700.000	13.824	0.766
490.000	700.000	15.381	0.288
480.000	700.000	16.351	0.271
470.000	700.000	16.507	0.962
460.000	700.000	17.889	0.433
450.000	700.000	20.031	-0.290
440.000	700.000	12.817	1.567
430.000	700.000	17.779	0.020
420.000	700.000	22.980	0.236
410.000	700.000	21.661	0.376
400.000	700.000	21.249	1.565
390.000	700.000	24.124	1.988
380.000	700.000	43.158	3.085
370.000	700.000	46.646	2.532
360.000	700.000	-85.620	-7.956
350.000	700.000	111.099	11.313
340.000	700.000	50.811	4.911
330.000	700.000	39.852	3.660
320.000	700.000	32.327	2.969
310.000	700.000	26.751	2.438
300.000	700.000	21.853	2.090
LINE 710			
0.000	710.000	17.843	-0.009
10.000	710.000	20.480	-0.259
20.000	710.000	16.662	0.848
30.000	710.000	9.375	2.647
40.000	710.000	21.450	8.928
50.000	710.000	28.518	31.317
60.000	710.000	19.775	-0.176
70.000	710.000	20.398	5.964
80.000	710.000	19.857	3.485
90.000	710.000	16.955	0.292
100.000	710.000	20.544	2.927
110.000	710.000	22.018	0.395
120.000	710.000	20.315	0.744
130.000	710.000	19.885	0.209
140.000	710.000	18.283	1.521
150.000	710.000	22.320	16.571
160.000	710.000	17.697	0.872
170.000	710.000	18.704	2.476
180.000	710.000	17.550	0.349
190.000	710.000	16.717	2.063
200.000	710.000	20.040	0.018

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
210.000	710.000	17.862	0.562	750.000	720.000	18.374	1.038
220.000	710.000	17.422	1.227	740.000	720.000	16.873	-0.597
230.000	710.000	18.713	2.800	730.000	720.000	16.927	-0.029
240.000	710.000	16.086	1.945	720.000	720.000	18.246	4.810
250.000	710.000	15.564	1.341	710.000	720.000	17.376	3.070
260.000	710.000	18.667	3.878	700.000	720.000	15.198	0.878
270.000	710.000	19.244	18.424	690.000	720.000	14.785	1.706
280.000	710.000	20.544	0.909	680.000	720.000	14.272	0.519
290.000	710.000	23.455	4.194	670.000	720.000	14.538	0.536
300.000	710.000	29.251	1.649	660.000	720.000	14.721	2.296
310.000	710.000	32.748	1.449	650.000	720.000	16.598	-0.213
320.000	710.000	37.930	3.088	640.000	720.000	17.797	1.242
330.000	710.000	45.529	2.407	630.000	720.000	16.543	-0.224
340.000	710.000	50.583	4.292	620.000	720.000	16.681	0.474
350.000	710.000	58.154	5.264	610.000	720.000	17.660	-0.332
360.000	710.000	88.962	9.304	600.000	720.000	18.283	3.537
370.000	710.000	65.433	3.316	590.000	720.000	84.292	44.534
380.000	710.000	-45.226	-3.300	580.000	720.000	62.988	44.510
390.000	710.000	40.402	2.412	570.000	720.000	39.459	44.558
400.000	710.000	23.364	0.257	560.000	720.000	16.607	-4.011
410.000	710.000	21.707	0.417	550.000	720.000	17.623	0.090
420.000	710.000	20.901	0.071	540.000	720.000	15.838	0.481
430.000	710.000	22.320	-0.352	530.000	720.000	16.598	-0.213
440.000	710.000	17.322	4.374	520.000	720.000	15.921	-0.150
450.000	710.000	17.294	0.209	510.000	720.000	16.946	2.570
460.000	710.000	18.393	0.253	500.000	720.000	17.340	-0.178
470.000	710.000	17.358	1.277	490.000	720.000	18.310	0.858
480.000	710.000	16.809	0.218	480.000	720.000	20.031	5.277
490.000	710.000	16.333	0.332	470.000	720.000	18.163	4.185
500.000	710.000	13.605	0.398	460.000	720.000	19.903	12.367
510.000	710.000	14.328	0.102	450.000	720.000	18.521	-0.712
520.000	710.000	16.351	0.262	440.000	720.000	16.827	2.232
530.000	710.000	16.461	0.523	430.000	720.000	19.033	0.117
540.000	710.000	16.809	-0.036	420.000	720.000	18.905	-0.198
550.000	710.000	16.965	-0.185	410.000	720.000	21.020	1.017
560.000	710.000	17.449	0.457	400.000	720.000	22.210	0.534
570.000	710.000	17.834	-0.347	390.000	720.000	21.560	1.440
580.000	710.000	21.331	7.074	380.000	720.000	27.676	2.752
590.000	710.000	20.947	2.520	370.000	720.000	-23.849	-2.397
600.000	710.000	19.399	1.942	360.000	720.000	72.711	8.224
610.000	710.000	18.301	2.436	350.000	720.000	121.105	20.351
620.000	710.000	17.743	2.998	340.000	720.000	121.344	13.119
630.000	710.000	17.532	-0.453	330.000	720.000	122.021	8.522
640.000	710.000	18.090	6.236	320.000	720.000	86.462	8.540
650.000	710.000	16.049	-0.373	310.000	720.000	75.393	5.306
660.000	710.000	19.399	7.599	300.000	720.000	57.925	2.081
670.000	710.000	17.889	1.931	290.000	720.000	53.274	1.879
680.000	710.000	15.106	0.532	280.000	720.000	38.196	1.429
690.000	710.000	15.087	-0.112	270.000	720.000	27.291	0.771
700.000	710.000	14.163	0.698	260.000	720.000	23.327	0.909
710.000	710.000	17.038	-0.450	250.000	720.000	19.455	-0.543
720.000	710.000	17.761	0.863	240.000	720.000	16.507	0.701
730.000	710.000	16.644	1.909	230.000	720.000	18.163	3.781
740.000	710.000	17.514	1.304	220.000	720.000	17.101	0.270
750.000	710.000	17.651	0.808	210.000	720.000	16.809	0.101
760.000	710.000	18.100	1.618	200.000	720.000	19.070	-0.435
770.000	710.000	17.752	2.653	190.000	720.000	18.942	-0.387
780.000	710.000	16.525	0.255	180.000	720.000	19.683	2.102
790.000	710.000	14.895	0.457	170.000	720.000	19.867	3.515
800.000	710.000	16.534	-0.701	160.000	720.000	21.670	5.914
LINE 720				150.000	720.000	18.457	-0.374
800.000	720.000	16.772	-0.398	140.000	720.000	20.865	0.951
790.000	720.000	16.131	-0.452	130.000	720.000	21.176	-0.512
780.000	720.000	15.042	0.069	120.000	720.000	21.295	2.864
770.000	720.000	16.543	-0.768	110.000	720.000	21.789	-0.213
760.000	720.000	17.578	-0.799	100.000	720.000	23.254	-0.722

Line	Station	In-Phase	Quad.
90.000	720.000	23.574	-0.604
80.000	720.000	23.428	-0.470
70.000	720.000	25.451	14.370
60.000	720.000	22.879	3.878
50.000	720.000	21.057	1.758
40.000	720.000	17.871	0.681
30.000	720.000	18.924	0.376
20.000	720.000	17.962	-0.090
10.000	720.000	18.795	0.505
0.000	720.000	17.605	0.180
LINE 730			
0.000	730.000	16.809	-0.236
10.000	730.000	17.971	1.277
20.000	730.000	17.083	0.110
30.000	730.000	18.081	0.251
40.000	730.000	19.235	2.006
50.000	730.000	17.880	0.507
60.000	730.000	23.986	2.506
70.000	730.000	22.348	-1.670
80.000	730.000	19.207	-0.093
90.000	730.000	19.381	-0.350
100.000	730.000	20.782	-0.466
110.000	730.000	21.972	-1.144
120.000	730.000	21.387	-0.922
130.000	730.000	21.240	-0.562
140.000	730.000	20.947	0.758
150.000	730.000	20.297	2.239
160.000	730.000	17.212	1.528
170.000	730.000	19.098	6.385
180.000	730.000	19.702	0.095
190.000	730.000	22.915	18.718
200.000	730.000	18.402	0.984
210.000	730.000	17.294	1.346
220.000	730.000	18.576	7.557
230.000	730.000	16.113	1.085
240.000	730.000	16.030	2.894
250.000	730.000	19.152	1.089
260.000	730.000	22.449	1.541
270.000	730.000	13.788	1.716
280.000	730.000	36.575	3.546
290.000	730.000	91.067	4.641
300.000	730.000	82.269	3.009
310.000	730.000	89.282	3.671
320.000	730.000	4.220	4.134
330.000	730.000	36.960	5.086
340.000	730.000	84.521	6.076
350.000	730.000	121.838	11.202
360.000	730.000	109.378	10.014
370.000	730.000	70.843	4.736
380.000	730.000	36.117	4.152
390.000	730.000	20.287	2.939
400.000	730.000	21.505	-0.034
410.000	730.000	21.551	-0.402
420.000	730.000	20.654	-0.376
430.000	730.000	19.409	3.658
440.000	730.000	18.420	0.523
450.000	730.000	16.882	4.075
460.000	730.000	16.232	0.779
470.000	730.000	15.774	0.027
480.000	730.000	16.589	-0.124
490.000	730.000	16.781	0.420
500.000	730.000	19.894	-0.655
510.000	730.000	19.015	-0.314
520.000	730.000	18.704	0.038
530.000	730.000	16.434	-0.213
540.000	730.000	15.884	-0.293
550.000	730.000	16.396	-0.338
560.000	730.000	17.083	1.019
570.000	730.000	16.525	-0.371
580.000	730.000	17.074	5.477
590.000	730.000	23.538	24.278
600.000	730.000	20.278	4.823
610.000	730.000	19.491	2.539
620.000	730.000	19.317	10.003
630.000	730.000	17.212	2.864
640.000	730.000	17.761	7.737
650.000	730.000	16.021	3.439
660.000	730.000	15.912	5.262
670.000	730.000	15.490	-0.542
680.000	730.000	15.865	3.074
690.000	730.000	16.012	2.116
700.000	730.000	14.337	0.428
710.000	730.000	15.280	-0.130
720.000	730.000	21.469	8.472
730.000	730.000	17.221	-1.376
740.000	730.000	17.431	-0.672
750.000	730.000	17.770	0.395
760.000	730.000	18.484	-1.006
770.000	730.000	17.697	0.299
780.000	730.000	17.550	-0.029
790.000	730.000	16.918	-0.389
800.000	730.000	17.697	0.929
LINE 740			
800.000	740.000	18.558	0.972
790.000	740.000	18.310	0.156
780.000	740.000	22.000	13.266
770.000	740.000	19.839	2.963
760.000	740.000	22.036	12.445
750.000	740.000	18.759	0.569
740.000	740.000	18.878	0.769
730.000	740.000	18.841	-0.099
720.000	740.000	17.010	-0.722
710.000	740.000	16.507	0.071
700.000	740.000	15.802	6.431
690.000	740.000	14.163	1.881
680.000	740.000	15.682	0.486
670.000	740.000	16.424	0.984
660.000	740.000	14.794	-0.163
650.000	740.000	15.325	0.060
640.000	740.000	16.415	4.275
630.000	740.000	15.481	2.333
620.000	740.000	16.131	0.077
610.000	740.000	16.690	1.218
600.000	740.000	15.527	-0.598
590.000	740.000	16.763	-0.667
580.000	740.000	18.301	-0.341
570.000	740.000	17.074	-0.685
560.000	740.000	15.865	0.725
550.000	740.000	16.873	-0.477
540.000	740.000	18.502	1.186
530.000	740.000	16.918	7.061
520.000	740.000	15.618	1.403
510.000	740.000	16.378	0.644
500.000	740.000	18.667	0.486
490.000	740.000	17.083	0.257
480.000	740.000	16.570	0.440
470.000	740.000	16.827	-0.226
460.000	740.000	16.296	0.124
450.000	740.000	17.632	4.621
440.000	740.000	19.674	0.012
430.000	740.000	22.137	3.401
420.000	740.000	19.006	2.464

Line	Station	In-Phase	Quad.
410.000	740.000	18.685	1.932
400.000	740.000	21.075	3.893
390.000	740.000	19.162	4.667
380.000	740.000	19.930	3.831
370.000	740.000	25.085	2.739
360.000	740.000	29.040	8.152
350.000	740.000	32.775	10.032
340.000	740.000	41.730	8.672
330.000	740.000	50.857	5.705
320.000	740.000	50.216	4.233
310.000	740.000	62.997	2.223
300.000	740.000	58.657	1.302
290.000	740.000	60.891	3.680
280.000	740.000	54.061	2.644
270.000	740.000	34.323	8.459
260.000	740.000	12.909	-0.387
250.000	740.000	20.947	0.169
240.000	740.000	17.926	-0.123
230.000	740.000	17.056	1.343
220.000	740.000	17.358	1.743
210.000	740.000	17.459	0.576
200.000	740.000	16.223	0.141
190.000	740.000	17.148	0.034
180.000	740.000	18.163	0.213
170.000	740.000	19.244	2.851
160.000	740.000	19.390	5.185
150.000	740.000	18.154	0.777
140.000	740.000	20.388	2.375
130.000	740.000	21.103	2.520
120.000	740.000	20.992	-0.488
110.000	740.000	21.570	-0.446
100.000	740.000	21.396	1.056
90.000	740.000	23.831	-0.034
80.000	740.000	20.856	-0.398
70.000	740.000	21.103	-0.303
60.000	740.000	18.182	0.711
50.000	740.000	19.098	0.933
40.000	740.000	19.052	2.241
30.000	740.000	17.770	1.786
20.000	740.000	16.012	0.191
10.000	740.000	17.120	1.690
0.000	740.000	16.434	0.189
LINE 750			
0.000	750.000	16.900	-0.134
10.000	750.000	18.511	0.275
20.000	750.000	17.797	1.765
30.000	750.000	17.422	2.517
40.000	750.000	19.262	0.933
50.000	750.000	19.793	3.606
60.000	750.000	18.658	3.930
70.000	750.000	18.521	1.591
80.000	750.000	25.570	2.855
90.000	750.000	21.835	2.388
100.000	750.000	22.641	0.430
110.000	750.000	20.992	-0.354
120.000	750.000	19.610	-0.152
130.000	750.000	21.304	-0.527
140.000	750.000	21.166	-0.652
150.000	750.000	21.322	-0.867
160.000	750.000	21.002	-0.440
170.000	750.000	19.189	-0.022
180.000	750.000	19.024	0.056
190.000	750.000	18.319	-0.244
200.000	750.000	17.752	-0.266
210.000	750.000	17.779	0.194
220.000	750.000	18.713	1.826
230.000	750.000	17.505	3.610
240.000	750.000	16.836	2.002
250.000	750.000	19.399	6.860
260.000	750.000	21.753	0.903
270.000	750.000	18.036	1.052
280.000	750.000	22.741	1.240
290.000	750.000	28.225	1.563
300.000	750.000	24.371	1.519
310.000	750.000	27.209	2.816
320.000	750.000	29.470	2.677
330.000	750.000	30.221	2.554
340.000	750.000	30.432	1.322
350.000	750.000	27.667	1.517
360.000	750.000	23.529	1.269
370.000	750.000	21.615	1.073
380.000	750.000	20.306	1.111
390.000	750.000	16.937	1.706
400.000	750.000	19.702	0.266
410.000	750.000	20.086	0.595
420.000	750.000	18.685	0.165
430.000	750.000	19.098	-0.034
440.000	750.000	17.679	0.251
450.000	750.000	18.576	1.655
460.000	750.000	18.997	0.531
470.000	750.000	20.040	0.428
480.000	750.000	17.962	-0.106
490.000	750.000	16.781	-0.023
500.000	750.000	18.118	-0.464
510.000	750.000	18.182	0.152
520.000	750.000	16.671	-0.154
530.000	750.000	15.417	-0.387
540.000	750.000	16.186	-0.428
550.000	750.000	16.882	0.779
560.000	750.000	18.374	2.386
570.000	750.000	12.982	-0.007
580.000	750.000	14.584	0.891
590.000	750.000	16.662	0.802
600.000	750.000	17.733	-0.600
610.000	750.000	17.706	0.643
620.000	750.000	16.772	0.181
630.000	750.000	16.488	-0.488
640.000	750.000	17.614	-0.773
650.000	750.000	18.713	3.744
660.000	750.000	17.779	3.915
670.000	750.000	18.493	3.132
680.000	750.000	17.632	-0.670
690.000	750.000	14.566	2.056
700.000	750.000	17.880	1.122
710.000	750.000	17.743	-0.086
720.000	750.000	17.926	0.328
730.000	750.000	17.331	-0.604
740.000	750.000	19.281	-0.433
750.000	750.000	18.301	-0.384
760.000	750.000	18.823	0.398
770.000	750.000	19.152	-0.284
780.000	750.000	19.354	0.266
790.000	750.000	18.292	-0.040
800.000	750.000	18.997	-0.192
LINE 760			
800.000	760.000	18.027	-0.916
790.000	760.000	17.797	-0.644
780.000	760.000	18.109	-0.933
770.000	760.000	17.862	0.347
760.000	760.000	18.283	-0.655
750.000	760.000	17.587	0.464
740.000	760.000	18.182	0.012

Line	Station	In-Phase	Quad.
730.000	760.000	17.999	0.082
720.000	760.000	18.859	1.344
710.000	760.000	15.765	-0.191
700.000	760.000	14.803	0.576
690.000	760.000	16.589	-0.216
680.000	760.000	17.459	-0.106
670.000	760.000	16.744	-0.497
660.000	760.000	17.706	-0.143
650.000	760.000	17.212	-0.626
640.000	760.000	15.811	-0.354
630.000	760.000	15.966	-0.497
620.000	760.000	15.545	0.068
610.000	760.000	16.378	1.769
600.000	760.000	16.909	-0.529
590.000	760.000	17.111	-0.218
580.000	760.000	17.779	0.266
570.000	760.000	16.927	0.161
560.000	760.000	16.260	2.418
550.000	760.000	20.443	-0.012
540.000	760.000	19.207	0.147
530.000	760.000	20.287	0.170
520.000	760.000	18.576	0.929
510.000	760.000	17.523	0.722
500.000	760.000	19.656	-0.281
490.000	760.000	19.070	-0.440
480.000	760.000	19.446	0.169
470.000	760.000	20.654	0.271
460.000	760.000	18.603	0.321
450.000	760.000	18.063	5.284
440.000	760.000	17.395	3.004
430.000	760.000	16.058	0.881
420.000	760.000	17.907	1.955
410.000	760.000	20.361	1.749
400.000	760.000	18.631	0.714
390.000	760.000	18.090	1.299
380.000	760.000	18.292	0.905
370.000	760.000	19.061	0.837
360.000	760.000	18.402	1.038
350.000	760.000	20.434	1.062
340.000	760.000	22.146	0.461
330.000	760.000	23.290	-0.170
320.000	760.000	23.116	0.562
310.000	760.000	22.320	0.795
300.000	760.000	21.697	0.549
290.000	760.000	19.464	0.398
280.000	760.000	19.977	0.053
270.000	760.000	21.807	-0.380
260.000	760.000	18.786	0.437
250.000	760.000	18.539	-0.301
240.000	760.000	17.788	0.143
230.000	760.000	17.248	-0.077
220.000	760.000	19.345	0.062
210.000	760.000	19.354	-0.424
200.000	760.000	20.151	-0.516
190.000	760.000	18.576	1.297
180.000	760.000	18.264	2.618
170.000	760.000	18.466	-0.040
160.000	760.000	19.573	0.126
150.000	760.000	19.967	-0.407
140.000	760.000	18.731	0.378
130.000	760.000	20.571	0.012
120.000	760.000	17.935	0.270
110.000	760.000	19.867	0.110
100.000	760.000	21.359	-1.249
90.000	760.000	22.201	-1.139
80.000	760.000	20.571	2.120

Line	Station	In-Phase	Quad.
70.000	760.000	20.581	-0.301
60.000	760.000	21.469	0.044
50.000	760.000	20.992	1.479
40.000	760.000	18.145	1.008
30.000	760.000	17.797	2.625
20.000	760.000	17.614	1.124
10.000	760.000	19.702	2.057
0.000	760.000	18.457	0.551
LINE 770			
0.000	770.000	19.519	-0.639
10.000	770.000	19.601	-0.564
20.000	770.000	18.511	-0.167
30.000	770.000	17.157	-0.040
40.000	770.000	18.741	-0.266
50.000	770.000	10.363	3.301
60.000	770.000	9.850	3.926
70.000	770.000	15.820	2.328
80.000	770.000	8.267	4.988
90.000	770.000	9.448	3.158
100.000	770.000	21.734	-1.041
110.000	770.000	21.157	-0.670
120.000	770.000	20.370	-0.378
130.000	770.000	20.965	1.681
140.000	770.000	19.290	0.139
150.000	770.000	18.548	-0.102
160.000	770.000	20.269	2.339
170.000	770.000	19.986	0.141
180.000	770.000	17.990	0.297
190.000	770.000	19.216	1.903
200.000	770.000	20.892	-0.643
210.000	770.000	20.645	-0.406
220.000	770.000	16.507	-1.738
230.000	770.000	18.631	-1.712
240.000	770.000	19.418	-0.071
250.000	770.000	18.603	0.045
260.000	770.000	18.567	1.354
270.000	770.000	19.509	0.549
280.000	770.000	18.777	1.795
290.000	770.000	19.253	0.639
300.000	770.000	18.356	0.701
310.000	770.000	19.509	2.772
320.000	770.000	20.544	2.197
330.000	770.000	23.565	-0.044
340.000	770.000	22.174	0.690
350.000	770.000	18.521	1.203
360.000	770.000	18.960	1.062
370.000	770.000	17.816	1.455
380.000	770.000	16.177	1.047
390.000	770.000	14.089	4.242
400.000	770.000	18.163	0.512
410.000	770.000	18.429	0.345
420.000	770.000	17.294	-0.119
430.000	770.000	12.726	0.418
440.000	770.000	4.312	4.815
450.000	770.000	9.897	1.956
460.000	770.000	19.262	-0.327
470.000	770.000	16.525	0.066
480.000	770.000	15.912	1.367
490.000	770.000	17.212	-0.001
500.000	770.000	16.644	-0.319
510.000	770.000	16.635	-0.159
520.000	770.000	17.413	1.135
530.000	770.000	17.688	-0.134
540.000	770.000	17.898	0.793
550.000	770.000	20.151	-0.588
560.000	770.000	20.251	0.327

Line	Station	In-Phase	Quad.
570.000	770.000	12.579	-0.299
580.000	770.000	16.030	-0.643
590.000	770.000	16.452	0.540
600.000	770.000	15.985	-0.569
610.000	770.000	15.490	0.205
620.000	770.000	16.836	3.424
630.000	770.000	15.976	1.662
640.000	770.000	16.003	2.272
650.000	770.000	16.122	1.163
660.000	770.000	17.376	1.980
670.000	770.000	17.550	1.547
680.000	770.000	16.159	2.261
690.000	770.000	18.191	6.300
700.000	770.000	17.477	1.466
710.000	770.000	17.248	2.068
720.000	770.000	17.578	0.130
730.000	770.000	18.008	0.227
740.000	770.000	14.602	-0.385
750.000	770.000	18.036	1.738
760.000	770.000	16.561	0.036
770.000	770.000	17.761	1.144
780.000	770.000	17.944	1.479
790.000	770.000	17.395	0.519
800.000	770.000	17.340	-0.580
LINE 780			
800.000	780.000	18.832	-0.178
790.000	780.000	18.915	-0.411
780.000	780.000	18.658	-0.628
770.000	780.000	18.924	-0.676
760.000	780.000	18.924	-0.973
750.000	780.000	19.089	-0.374
740.000	780.000	18.200	-0.948
730.000	780.000	18.173	-0.848
720.000	780.000	17.303	3.432
710.000	780.000	15.225	0.053
700.000	780.000	15.856	-0.791
690.000	780.000	15.884	-0.371
680.000	780.000	16.699	3.257
670.000	780.000	16.726	-0.780
660.000	780.000	17.120	-0.802
650.000	780.000	16.681	-0.486
640.000	780.000	18.182	0.077
630.000	780.000	18.868	-0.238
620.000	780.000	16.891	-0.260
610.000	780.000	14.831	-0.038
600.000	780.000	17.431	-0.573
590.000	780.000	16.909	-0.384
580.000	780.000	19.336	7.743
570.000	780.000	17.486	0.290
560.000	780.000	20.169	0.001
550.000	780.000	22.128	1.034
540.000	780.000	18.704	0.490
530.000	780.000	17.697	-0.093
520.000	780.000	13.971	0.367
510.000	780.000	15.024	0.132
500.000	780.000	14.803	0.137
490.000	780.000	14.859	0.126
480.000	780.000	17.028	2.052
470.000	780.000	19.024	-0.477
460.000	780.000	17.385	-0.073
450.000	780.000	17.312	0.575
440.000	780.000	12.030	4.066
430.000	780.000	14.785	1.374
420.000	780.000	17.083	1.374
410.000	780.000	16.039	0.483
400.000	780.000	18.328	-0.156
390.000	780.000	16.525	1.914
380.000	780.000	15.939	3.316
370.000	780.000	15.710	0.593
360.000	780.000	19.089	0.705
350.000	780.000	20.562	2.346
340.000	780.000	17.184	2.296
330.000	780.000	19.317	0.235
320.000	780.000	20.498	-0.295
310.000	780.000	20.141	-0.305
300.000	780.000	20.031	-0.288
290.000	780.000	20.123	-0.174
280.000	780.000	18.219	-0.369
270.000	780.000	19.519	0.009
260.000	780.000	18.072	-0.268
250.000	780.000	18.008	-0.378
240.000	780.000	18.411	0.532
230.000	780.000	18.768	-0.470
220.000	780.000	19.683	-0.509
210.000	780.000	18.759	-0.299
200.000	780.000	17.761	-0.779
190.000	780.000	17.990	-0.319
180.000	780.000	19.372	3.200
170.000	780.000	17.376	0.327
160.000	780.000	18.640	-0.014
150.000	780.000	18.969	0.519
140.000	780.000	19.775	0.758
130.000	780.000	19.629	-1.084
120.000	780.000	19.747	-0.404
110.000	780.000	19.766	-1.078
100.000	780.000	20.608	0.040
90.000	780.000	20.800	-0.042
80.000	780.000	23.739	-1.181
70.000	780.000	18.997	1.424
60.000	780.000	10.986	2.265
50.000	780.000	15.216	2.866
40.000	780.000	14.813	2.802
30.000	780.000	18.210	0.733
20.000	780.000	19.473	6.982
10.000	780.000	19.006	1.052
0.000	780.000	17.559	0.073
LINE 790			
0.000	790.000	19.281	-0.044
10.000	790.000	19.244	-0.088
20.000	790.000	19.345	-0.200
30.000	790.000	17.614	0.161
40.000	790.000	16.543	0.235
50.000	790.000	19.089	0.341
60.000	790.000	20.260	1.192
70.000	790.000	19.821	0.101
80.000	790.000	20.434	0.347
90.000	790.000	21.505	-0.573
100.000	790.000	20.471	0.496
110.000	790.000	20.398	0.843
120.000	790.000	20.325	0.005
130.000	790.000	19.336	-0.051
140.000	790.000	20.773	-0.356
150.000	790.000	20.727	-0.450
160.000	790.000	19.464	-0.295
170.000	790.000	19.162	-0.135
180.000	790.000	18.090	-0.069
190.000	790.000	18.786	0.321
200.000	790.000	18.859	-0.536
210.000	790.000	18.969	-0.365
220.000	790.000	19.207	-0.406
230.000	790.000	19.620	-0.154
240.000	790.000	17.496	1.260

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
250.000	790.000	16.323	0.635	710.000	800.000	17.019	-0.387
260.000	790.000	16.681	0.306	700.000	800.000	17.962	-0.540
270.000	790.000	16.909	-0.367	690.000	800.000	17.971	-0.303
280.000	790.000	17.889	0.393	680.000	800.000	17.660	-0.764
290.000	790.000	17.486	0.641	670.000	800.000	18.337	1.537
300.000	790.000	19.171	-0.086	660.000	800.000	18.027	-1.001
310.000	790.000	17.248	-0.253	650.000	800.000	19.418	3.026
320.000	790.000	19.995	-0.709	640.000	800.000	18.915	-0.224
330.000	790.000	19.235	-0.130	630.000	800.000	18.567	-0.611
340.000	790.000	18.475	0.630	620.000	800.000	19.198	-0.663
350.000	790.000	20.086	0.145	610.000	800.000	18.750	1.751
360.000	790.000	21.972	2.013	600.000	800.000	18.045	-0.676
370.000	790.000	21.817	-0.180	590.000	800.000	16.735	-0.466
380.000	790.000	19.912	1.284	580.000	800.000	15.673	0.068
390.000	790.000	16.387	1.629	570.000	800.000	17.285	0.137
400.000	790.000	16.983	0.430	560.000	800.000	15.628	0.187
410.000	790.000	16.030	0.703	550.000	800.000	16.516	3.417
420.000	790.000	16.891	0.545	540.000	800.000	18.466	1.925
430.000	790.000	20.626	0.644	530.000	800.000	16.671	-0.564
440.000	790.000	13.431	1.179	520.000	800.000	16.113	-0.466
450.000	790.000	12.158	1.898	510.000	800.000	14.209	0.505
460.000	790.000	18.631	-0.266	500.000	800.000	16.223	-0.349
470.000	790.000	16.726	0.731	490.000	800.000	15.334	-0.282
480.000	790.000	18.337	-0.628	480.000	800.000	15.207	1.074
490.000	790.000	16.195	-0.593	470.000	800.000	16.131	-0.240
500.000	790.000	14.721	-0.270	460.000	800.000	14.428	1.069
510.000	790.000	16.086	-0.369	450.000	800.000	11.947	1.365
520.000	790.000	15.573	-0.157	440.000	800.000	14.309	0.174
530.000	790.000	14.840	1.030	430.000	800.000	18.493	-0.259
540.000	790.000	14.785	-0.016	420.000	800.000	19.134	-0.222
550.000	790.000	14.511	-0.279	410.000	800.000	16.918	0.101
560.000	790.000	15.664	-0.236	400.000	800.000	19.272	-0.334
570.000	790.000	16.708	1.183	390.000	800.000	19.033	0.101
580.000	790.000	21.615	1.486	380.000	800.000	22.806	-0.463
590.000	790.000	19.592	1.455	370.000	800.000	13.522	0.233
600.000	790.000	20.782	-0.211	360.000	800.000	20.214	0.786
610.000	790.000	19.573	-0.731	350.000	800.000	18.759	0.696
620.000	790.000	18.859	-0.812	340.000	800.000	19.665	0.334
630.000	790.000	17.532	-0.387	330.000	800.000	19.803	-0.281
640.000	790.000	18.521	0.334	320.000	800.000	20.635	-0.448
650.000	790.000	18.878	-1.054	310.000	800.000	20.287	-0.586
660.000	790.000	18.466	-0.780	300.000	800.000	20.123	-0.709
670.000	790.000	19.986	-0.848	290.000	800.000	21.249	-0.628
680.000	790.000	14.410	-0.543	280.000	800.000	17.312	-0.260
690.000	790.000	17.514	0.973	270.000	800.000	17.953	0.005
700.000	790.000	17.376	-0.665	260.000	800.000	16.754	-0.011
710.000	790.000	17.349	-0.823	250.000	800.000	16.992	0.540
720.000	790.000	17.523	-0.690	240.000	800.000	17.505	-0.011
730.000	790.000	18.777	0.327	230.000	800.000	20.214	-0.804
740.000	790.000	18.521	-0.101	220.000	800.000	20.287	-0.880
750.000	790.000	19.079	-0.847	210.000	800.000	20.233	-0.916
760.000	790.000	18.640	-0.582	200.000	800.000	19.519	-0.758
770.000	790.000	18.887	-0.933	190.000	800.000	19.052	-0.086
780.000	790.000	19.638	-1.137	180.000	800.000	19.702	2.280
790.000	790.000	19.171	-1.247	170.000	800.000	19.006	-0.536
800.000	790.000	19.207	-1.265	160.000	800.000	18.365	-0.452
LINE 800				150.000	800.000	17.853	1.265
800.000	800.000	18.978	-1.238	140.000	800.000	20.031	-0.496
790.000	800.000	18.933	-1.130	130.000	800.000	20.315	-0.931
780.000	800.000	19.290	-0.948	120.000	800.000	19.940	-0.450
770.000	800.000	19.464	-1.278	110.000	800.000	19.894	-0.624
760.000	800.000	20.086	2.486	100.000	800.000	19.381	-0.894
750.000	800.000	19.940	1.673	90.000	800.000	19.894	-0.655
740.000	800.000	19.052	-0.854	80.000	800.000	20.992	-0.972
730.000	800.000	18.384	-0.553	70.000	800.000	22.146	-0.962
720.000	800.000	18.612	-0.845	60.000	800.000	18.750	-0.406

Line	Station	In-Phase	Quad.	Line	Station	In-Phase	Quad.
50.000	800.000	19.042	-0.735				
40.000	800.000	18.493	0.843				
30.000	800.000	18.027	-0.080				
20.000	800.000	18.429	0.744				
10.000	800.000	18.585	-0.231				
0.000	800.000	18.447	-0.279				

APPENDIX B

SUBSURFACE INVESTIGATIONS

- Boring/Monitoring Well Logs
- Test pit Logs

Boring/Monitoring Well Logs

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW4-1

PROJECT: 10 SWMU

LOCATION: SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 698.392

START DATE: 12-6-93

FINISH DATE: 12-6-93

CONTRACTOR: Empire

DRILLER: Scott

INSPECTOR: ES/LB

CHECKED BY: AW

CHECK DATE: 4/5/94

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		3"x 2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000	0-0.4	1000	12-6-93			cloudy
Dust		0-0.99	.03	1000	12-6-93			
OVM		0-2000	0-0.4	1330	12-6-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

SB4-1

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW4-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM		0-0.4	1000
Dust		.03	1000

COMMENTS: Sent SB4-1.1; -1.3, -1.5, -1.6

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 12-6-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	2	0		0	4-					
CL 1	2		2		1.1			Lt brown SILT, and Shale fragments (.25" to .75") little Clay, moist		Fill
	4				1.5	0	X			
	5	2		2	1.1 MED			Lt. brown SILT, some Clay, trace Shale fragments (.25" dia), oxidation, moist		
2	6	2		2	4-					
ML 3	8		1.5		1.2	0	X	Lt. brown SILT, some Shale fragments (to 2" dia, little Clay, moist, dense		
	10									
4	12	4		4						
	8	4		4	4.-					
ML 5	12		1.7		1.3	0	X	4.7 Lt. brown SILT, some Clay, little Shale fragment, moist gray weath. Shale		
	21									
	31	6		6				Lt. brown SILT, some Clay, little Shale fragments, dense, moist		
6	28	6		6	4-					
ML 7	22		2.0		1.4	0	X	~ shale fragments (to 2" dia.)		
	32									
	35			8						
8	16				4-			Lt. brown SILT, some Clay, little Shale fragments, dense, moist		
ML 9	32				1.6		X			
	42									
10	100/.1									
	100/.3							Weathered Shale		
								Spoon refusal at 10.3'		
								Augered to 10.5'		
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW4-2

PROJECT: 10 SWMU

LOCATION: SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 699.448

START DATE: 11/10/93

FINISH DATE: 11/10/93

CONTRACTOR: Empire

DRILLER: Bob

INSPECTOR: ES

CHECKED BY: AW

CHECK DATE: 4/5/94

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		3"x2'	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0 - 2000	0-1	1345	11/10/93			sunny

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

Drill Rig was 45.?
No downwind readings - had 1 OVM

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

SB4-2

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW4-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0-1	1345

COMMENTS: Sent SB4-2.1, SB4-2.2

DRILLER: Empire
INSPECTOR: ES
DATE: 11/10/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	86	0	0	0	4-			Med brown SILT, some Clay, little		
	8		↓		21	0	–	Cobbles (.5-.75") rounded. moist.		
ML 1	9		1.2							
	11	2		2				No Recovery		
ML 2	45		2	2	4-					
ST	00/.5		↓1.7		22	0	–	weathered shale, dry		
3			3.7	4						
4										
5								Spoon refusal @ 3.0'		
								Auger refusal at 4.0'		
6										
7										
8										
9										
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

SB4-3

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW4-3

PROJECT: 10 SWMU

LOCATION: SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 697.6669

START DATE: 11/10/93

FINISH DATE: 11/10/93

CONTRACTOR: Empire

DRILLER: Bob

INSPECTOR: ES

CHECKED BY: AW

CHECK DATE: 4/5/94

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3"x2'	SS	Hmr	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0-.5	1500	11/10/93			Sunny

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

No downwind monitoring;
1 OVM available.
Using small drill rig 45-C.

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW4-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0-.5	1500

COMMENTS: Sent 3.1, 3.3, 3.4

DRILLER: Empire
INSPECTOR: ES
DATE: 11/10/93

DEPTH (FT)	SAMPLING BLOWS PER 6 INCHES	SAMPLING PENETRATION RANGE (FEET)	SAMPLING RECOVERY RANGE (FEET)	SAMPLE DEPTH INT (FEET)	SAMPLE NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	9	0		0	SB4			.4' topsoil		
1	26		1.8		3.1	0	—	gray weathered Shale fill, some SILT,		
	26							Shale fragments to .75", moist		
	18	2		2						
2	16	2		2	SB4			Lt. brown SILT, some Clay, little COBBLES		
3	16		1.5		3.2	0	—	rounded (to .75") oxidation. moist, dense.		
	28									
	30	4		4						
4								← coarse sand lense.		
	15	4		4	SB4			Lt brown SILT, some fine Sand, little Shale fragments moist		
5	26		2.		3.3	0	—	AA ← weath. Shale lense.		
	36									
	90	6		6				v.c		
6	33	6		6	SB4			Lt. brown to lt. gray SILT, some weathered		▽
7	46		1.7		3.4	0	—	Shale fragments (to 1.5" dia.)	water 2"	layer wet.
	100/.5							~~Lt. brown but SAND, some Shale fragments~~		
		8		8						
8	100/3	8						gray weathered shale, wet.		
9			0		~~SB4 3.5~~		—			
10		10						Spoon refusal at 8.3'		
								Augered to 9.0'		
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW4-4

PROJECT: 10 SWMU

LOCATION: SEAD 4

JOB NO.: 130477

EST. GROUND ELEV.: 678.217

START DATE: 12-5-93

FINISH DATE: 12-5-93

CONTRACTOR: Empire

DRILLER: JCOA

INSPECTOR: ES/LB

CHECKED BY: AW

CHECK DATE: 4/5/94

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3"x2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM			1.6	12/5	12-5-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

SB4-4

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW4-4

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM		1.6	1215

COMMENTS: Sent 4.1, 4.2, 4.3, 4.5

DRILLER:
INSPECTOR:
DATE:

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	1	0		0	4	0	X	Organic matter.		
	1				4.1					
1	2		2		4.5			Med brown SILT, some Clay, little organic matter, moist		
	5	2		2	4.1 MRD			Lt. brown SILT some Clay, little Shale fragments, dense, moist		
2	36	2		2						
	37		.25			0	X	(Stone in bottom of spoon - 2-4'; no recovery.) wet		
3	38									
	40	4		4						
4	20	4		4	4			Lt. brown SILT, some fine Sand, little Shale fragments (.25" to 1.0") moist, dense,		
	28				4.2	0	X			
5	38									
	50	6		6						
6	45	6		6						
	58		1.0'		4					
7	100/3				4.3	0		AA, ~~some~~ large Shale pieces.		
		8		8						
8	62	8		8						
	100/.1						X	Weathered Shale		
9										
10		10		10						
								Spoon refusal at 8.5'		
								Augered to 10.0		
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW4-5

PROJECT: 10 SWMU

LOCATION: SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 699.182

START DATE: 12/5/93

FINISH DATE: 12/5/93

CONTRACTOR: Empire

DRILLER: John W.

INSPECTOR: ES/LB

CHECKED BY: AW

CHECK DATE: 9/5/94

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		3" x 2'	SS	HMR	140 / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM			0-1.6	1010	12/5/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

SB4-5

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: MW4-5

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM		0-1.6	1010

COMMENTS: Sent 5.1, 5.2

DRILLER: Empire/ Jd
INSPECTOR: ES/LB
DATE: 12-5/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	2	0		0				Topsoil		
	5				4' 5.1	0	Y	Lt. brown SILT, some Clay; little wood,		
1	7		2					concrete pieces, Shale fragments; moist		
2	7	2		2						
	11	2		2				Lt brown SILT, some Clay, moist, dense		
3	16		2		4' 5.2	0	X			
	28							Lt. brown SILT some Clay, some Shale fragments (.5" dia) moist		
4	100/3	4		4				weathered Shale		
5								Spoon refusal at 3.8'		
								Augered to 6.0'		

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACoE | BORING NO.: SB4-6

PROJECT: SEAD

LOCATION: Romulus, NY SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 696.240

START DATE: 12-6-93

FINISH DATE: 12-6-93

CONTRACTOR: Empire

DRILLER: Bob/Al

INSPECTOR: BH/MCR

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2" x 3'	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
UVM	PID	0-2000	0	1420	12-6-93			Cloudy, cold
RAD		0-100	14-16	1420	12-6-93			LT SNOW
DUST		0-.99	0	1420	12-6-93			
UVM			0	1435	12-6-93			
RAD			14-16	1435	12-6-93			
DUST			0	1435	12-6-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: | BORING #: SB 4-6

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1420
RAD	0-100	14-16	1420
DST	0-99	0	1420

COMMENTS: Sent 6.1, 6.2

DRILLER: Bob L/A
INSPECTOR: BH/Mike
DATE: 12-6-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	PENETRATION RANGE (FEET)	RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	4	0		0	4			organic & Roots Loam		
1420 1	6		6.2		6.1	0	X			
	10									
	28	2		2				Sand, Clay No Rocks		
2										
	92	2		2	4			weathered Shale wet		
1420 3	100/.3		0.8		6.2	0	X	SPLIT SPOON refusal 2.8'		
4		4		4						
5										
6										
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB 4-7

PROJECT: SEAD

LOCATION: Romulus, NY SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 704.071

START DATE: 12-5-93

FINISH DATE: 12-5-93

CONTRACTOR: Empire

DRILLER: John

INSPECTOR: DH/MCR

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
VVM	PID	0-2000	0	1450	12/5/93			cloudy, cool
RAD		0-100	15-18	1450	12-5-93			
DUST		0-.99	0	1450	12-5-93			
VVM			0	1530	12-5-93			
RAD			15-16	1530	12-5-93			
DUST			0	1530	12-5-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: | BORING #SB 4 - 7

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
UVM	0-2000	0	1450
Rad	0-100	15-18	1450
DUST	0-.99	0	1450

COMMENTS:

DRILLER: John
INSPECTOR: DH + MB
DATE: 12-5-93

	DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
ML		3	0		0	4			organics, Shale Clay Sand		
1450	1	7		1.7		7.0	0	X			
		9									
	2	10	2		2				Shale clay oxidation Hard dry		
		13	2		2	4					
	3	16		1.8			8	X			
		25				7.2					
1500	4	26	4		4						
		28	4			4					
	5	36		1.8	4						
1508		42					0	X	Clay Rock : Sticky (wet)		
		45			6	7.3					
	6	26	6		6						
1518		28	6			4					
	7	38		2.3		7.4	0	X	more Clay / sand		
ST	8	52	8		8						
		100/3		.2							
1525	9			A	—	—	0	X	Split Spoon refusal 8.3'		
	10		10								
	11										
	12								— 0 ML		
									— 8.3		
	15										
	20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB4-R

PROJECT: SEAD

LOCATION: Romulus, NY SEAD 4

JOB NO.: 720477

EST. GROUND ELEV.: 701.314

START DATE: 12-5-93

FINISH DATE: 12-5-93

CONTRACTOR: Empire

DRILLER: Bob

INSPECTOR: BH/MCB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT#/FALL
HSA	8 1/2"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
VVM	PID	0-2000	0	1245	12-5-93			Cloudy/cold
RAD		0-100	13-20	1245	12-5-93			
DUST		0-0.99	0	1245	12-5-93			
VVM			0	1305	12-5-93			
RAD			17-18	1305	12-5-93			
DUST			0	1305	12-5-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC.	CLIENT:	BORING #: SS4-8

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1245
RPM	0-100	15-20	1245
DUST	0-.95	0	1245

COMMENTS:

DRILLER: Bob

INSPECTOR: BH/MCB

DATE:

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	5	0		0	4-			Shale Gravel		
	5									
1245 1	7	200	2.0		8.1	0	X	Some Sand clay		
	8	8		2						
2	10	2		2	4-			wet clay Sand		
	10									
3	15	18	1.8		8.2	0	X	Some Rocks		
1252	20	4		4						
4	17	4		4	4					
5	32							Rocks, Shale, sand, clay, wood		
	50		1.9			0	X	sandstone clayer than above		
1303	90/1	6		6	8.3					
6								Split Spoon Refusal 5.6		
7										
8										
10										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: US ACOE	BORING NO.: 84-9

PROJECT: SEAD

LOCATION: Romulus, NY SEAD-4

JOB NO.: 720477

EST. GROUND ELEV.: 704.047

START DATE: 12-5-93

FINISH DATE: 12-5-93

CONTRACTOR: Empire

DRILLER: Scott

INSPECTOR: Bjl/MCB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	0950	12-5-93			cloudy windy
RAD		0-100	10-22	0950	12-5-93			cold
DUST		0-199	0	0950	12-5-93			
OVM			0	1005	12-5-93			
RAD			16-18	1005	12-5-93			
DUST			0	1005	12-5-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: | BORING #: S4-9

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	0950
RAD	0-100	20-22	0950
QUST	0-199	0	0950

COMMENTS:

DRILLER: SCOTT
INSPECTOR: BH/MCB
DATE: 12-5-93

DEPTH (FT)	SAMPLING BLOWS PER 6 INCHES	PENETRATION RANGE (FEET)	RECOVERY RANGE (FEET)	SAMPLE DEPTH INT (FEET)	SAMPLE NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	2	0			4			organics roots Sand		
	4									
1	5	2	2		9.1	0	X	Sand, oxidation, subbrocks little clay small pieces of shale		
2	6									
	14	2			4					
3	25		2.1		9.2	0	X	shale layer some sand		
	32									
4	38	4								
	32	4			4					
5	48		2.0			0	X			
	28				9.3			dry clay + shale		
6	100/.3	6						split spoon refusal 5.9'		
7										
8										
9										
10										
15										
20										

0950
0955
1003

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: US ACOE | BORING NO.: SB 4-10

PROJECT: SEAD

LOCATION: Romulus, NY

JOB NO.: 720477

EST. GROUND ELEV.: 702.275

START DATE: 12-6-93

FINISH DATE: 12-6-93

CONTRACTOR: Cyprite

DRILLER: [illegible]

INSPECTOR: [illegible]

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2		2" x 3'	SS	HMR	140 #/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1125	12-6-93			Partly cloudy
RAD		0-100	16-17	1125	12-6-93			Lt snow
Dust		0-.99	0	1125	12-6-93			
OVM			0	1138	12-6-93			
RAD			15-16	1138	12-6-93			
Dust			0	1138	12-6-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: | BORING #: SB 4-10

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1125
RAD	0-100	16-17	1125
2'UT	0-99	0	1125

COMMENTS:

DRILLER: Bob 1.7L
INSPECTOR: BH/Lyn
DATE: 12-6-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	3	0		0	4			0-		
1	6		1.7		10.1	0	X	clay sand few Rocks		
1:05	10									
	11	2		2						
2										
	24	0		0	4					
3	52		2.0					dry shale sand		
1130	87					0	Y			
	85	4		4	10.2					
4										
	41	4		4	4					
5	85					0	X	SPLIT SPOON REFUSAL 5.2'		
1137	100/2		1.1		10.3					
6		6		6						
10										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW16-1 (Background well)

PROJECT: 10 SWMU ESI
LOCATION: SEAD-16

JOB NO.: 720477
EST. GROUND ELEV.: 733.44 735
START DATE: 10/25/93
FINISH DATE:
CONTRACTOR: Empire
DRILLER: Al +
INSPECTOR: Pfm/ks
CHECKED BY: Pfm
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"	0-6'	3"x2'	SS	Prop/stl (HMR)	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	3:00	10/25/93			Sunny

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT	—	✓
SURVEYOR	—	✓
CORE LOG	—	✓
WELL INSTALLATION DETAILS	—	✓
HYDRAULIC TESTING	—	✓
GEOPHYSICAL LOGGING	—	✓

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.: MW16-1

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW16-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	300

COMMENTS: RED BKGRD 15 uR/hr = 0

DRILLER: Empire
INSPECTOR: PFM/KS
DATE: 10/25/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	1	0	0					Brn Blk organic silt + clay, 0-0.6' Roots Fill 0.2'-0.6'		Top Soil
1	2	↓	↓	-	-	0	0	* Δ Till, Bra-yellow f sand + SILT w/		
	7	2'	1.8'					some clay oxidized areas all the way through, dry		Till
2	10									
	12	2'	2'					Bra-yellow f-sand & SILT w		
3	13	↓	↓	-	-	0	0	some clay oxidized areas through out, shale frags throughout, fine		Till
	14	4'	3.2'					gravel size shale, dry		
4	15									
	100/.3	4'	4'					Gray-brn, SILT + clay with some		
5		↓	↓	-	-	0	0	shale frag's, WET, loose		
		4.3	4.3					fine gravel size		
6			↑					4.3' Split spoon refusal ← Refusal w/ Augers		
		Competent						will Auger to refusal		
		Shale						(thin w. shale zone ~ 0.3' thick)		
			↓							
10								→ Auger Refusal 6.0'		
								* Water @ 4.3' below ground surface on morning of 10/26/93 @ 8:05 AM		
								∴ 1.7' in hole		
15										
								* Fill dark brn blk w/ some silt and clay coal chips + roots		
								↳ 0-0.6'		
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACoE | BORING NO.: MW16-2

PROJECT: 10 SWMU ESI
LOCATION: SEAD-16

JOB NO.: 720477 —
EST. GROUND ELEV.: 732.829
START DATE: 10/26/93
FINISH DATE:
CONTRACTOR: Empire
DRILLER: Alan
INSPECTOR: RM/KS
CHECKED BY: [illegible]
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"	0-4.1'	3"x2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1050	10/26/93			
RAD		0-10	4 uR/HR	1035	10/26/93			
DUST		0-.99	0.7	1030	10/26/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		—
SURVEYOR		—
CORE LOG		—
WELL INSTALLATION DETAILS		—
HYDRAULIC TESTING		—
GEOPHYSICAL LOGGING		—

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACoE | BORING #: MW16-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0.0	1050
RAD	0-100	17uR/HR	1035
DUST	0-.99	0.7	1030

COMMENTS: ≈0

DRILLER: Al +
INSPECTOR: Pfm
DATE: 10/26/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
		0	0					0-0.3' Asphalt blk some oily residue		
1		↓	↓	-	-	10	0	0.3'-2' Crushed shale red (old road) f-c shale gravel-sized with f-m silt filler in interstices gray, dry		Fill
		2'	1.7'							
2										
		2	2					Gray shale weathered to fissile, with little f-silt in interstices some c gravel to cobble size shale flags at base of spoon, WET		W. SHALE
3		↓	↓	-	-	0	0			
		3.3	3.3							
4										
5		Competent						Shale		
6								Spoon refusal @ 3.3' will auger to refusal before setting well		
10								* Auger refusal 4.1'		
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | **CLIENT:** ACOE | **BORING NO.:** MW16-3

PROJECT: 10 SWMU ESI
LOCATION: SEAD-16

JOB NO.: 720477
EST. GROUND ELEV.: 733.049
START DATE: 10/26/93
FINISH DATE: 10/26/93
CONTRACTOR: Empire
DRILLER: Alan
INSPECTOR: Ffm
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		3" x 2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-200	0ppm	235	10/26/93			overcast
RAD		0-100	8 uR/h	238	10/26/93			"
Dust		0-0.99	0.05	239	10/26/93			"

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		—
SURVEYOR		—
CORE LOG		—
WELL INSTALLATION DETAILS		—
HYDRAULIC TESTING		—
GEOPHYSICAL LOGGING		—

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: MW16-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVN	0-2000	0	235
RAD	0-100	84 n.a	239
DUST	0-0.99	0.05	239

COMMENTS:

DRILLER: Empire Air
INSPECTOR: Pfm/[illegible]
DATE: 10/26/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	12	0	0			3.5		→ Asphalt 0-0.3'		
1	34	↓	↓	–	–	0	0	→ Brn f-sand SILT + clay some f-m gravel 0.3'-0.6'		
	22	2'	1.5'			0		→ Gray weathered shale, silt + clay in interstices some coarse sand shale (Road?)		Fill
2	17									
	15	2'	2'					Gray weathered shale silt + clay in interstices (2-2.3')		
3	8	↓	↓	–	–	0		Δ Sand, f+-m SAND Brown, with fine fragments wet 2.3-3'		Fill
	8	4'	3'							
4	8									
	100/.3	4	4					Brn-Gray SILT and CLAY with shale fragments f-c gravel sand WET		T. W. SHALE?
5		↓	↓	–	–					
		4.4	4.4'					Competent Shale		
6								↓ Spoon refusal 4.4'		
								Auger refusal 5.0'		
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW17-1

PROJECT: 10 SMWU
LOCATION: SEAD 17

JOB NO.: 720477
EST. GROUND ELEV.: 734.465
START DATE: 12-1-93
FINISH DATE: 12-1-93
CONTRACTOR: Empire
DRILLER: BOB/JOHN
INSPECTOR: ES/LB
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8.5"		2'x3"	SS	HMR	140# /30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000	0		12/1/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW17-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000		1110
Dust		—	—

COMMENTS:

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 12-1-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	2	0		0				Topsoil		
	3				17-			Med. brown SILT, some little Clay, trace		
1	6		2		1.1	0	X	Shale (.25" dia.), moist		
	10	2		2						
2										
	19	2		2				AA		
	15				17-					
3	17		1.8		1.2	0	X	med. brown, ← Shale fragments (1-1.5" dia.)		
	21	4		4				SILT, some Clay, little Shale fragments		
4								(.5" dia.), moist.		
	25	4						← 2" Shale fragments (1.5" dia.)		
5	37		1.8					wet area at interface		
	48							AA		
	52	6								
6	80	6						Med. brown fine SAND, some Shale		
7	100/.2							fragments (to 1" dia.), wet.		
		8								
8								Augered to 8.5'		
10										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW17-2

PROJECT: 10 SWMU ESI

LOCATION: SEAD-17

JOB NO.: 720477

EST. GROUND ELEV.: 731.649

START DATE: 10/27/93

FINISH DATE:

CONTRACTOR: Empire

DRILLER: Lian

INSPECTOR: [illegible]

CHECKED BY: [illegible]

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/4"		3" x 2'	SS	[illegible]	[illegible]

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	320	10/27/93			
RAD		0-100	17uR/h	320	10/27/93			
DUST		0-0.99	0.05	320	10/27/93			
OVM	PID	0-2000	0	0955	11/2/93			
RAD		0-100	20uR/h	0955	11/2/93			
DUST		0-0.99	0.05	0955	[illegible]			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		—
SURVEYOR		—
CORE LOG		—
WELL INSTALLATION DETAILS		—
HYDRAULIC TESTING		—
GEOPHYSICAL LOGGING		—

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: | BORING #: MW17-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	330
RAD	0-100	[illegible]	330
DUST	0-0.99	0.05	330

COMMENTS: ~~[illegible]~~

DRILLER: Empire

INSPECTOR: [illegible]

DATE: 10 2 93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	6	0	0	0	MW 17-2.1	0	0	Brown [illegible] fill 0-0.4		
1	6	2'	1.4'	1.4'				Δ to Brn, Silt + clay with some fine Sand, some oxidized [illegible]	Fill	Fill
	7									
2	7									
	8	2'	2	2	MW 17 2.2	0	0	2.0-2.5 Brn Silt + clay with some f sand	Till	Till
3	27							2.5-3.7 Gray-Brn Silt + clay w/ some f-sand.		
	59									
	100/4	4'	4'					3.7-4.0 weathered shale, Gray, damp		
4										
5		Component Size						Spoon refusal @ 4.0'		
6								Auger refusal @ 3.6' (cont Auger as far as spoons were driven)		
								Augered to 6.0' (different drill rig) 11/2/93.		
10										
								→ [illegible] N.S. [illegible]		
								Note: MW17-2.0 dup of MW17-2.2 [illegible] converted on [illegible] Note [illegible]		
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW17-3

PROJECT: D SWMU

LOCATION: SEAD 17

JOB NO.: 720477

EST. GROUND ELEV.: 730.188

START DATE: 11/30/93

FINISH DATE: 11/30/93

CONTRACTOR: Empire

DRILLER: John

INSPECTOR: ES/LB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2'x3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000	0	1345	11/30/93			
Dust		0-0.99	0.51	1345	11/30/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

tremied some dry.

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC.	CLIENT: ACOE	BORING #: MW17-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1345
Dust	0-.99	.51	1345

COMMENTS:

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 11/30/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	1	0		0	17-			Med. brown SAND, some silt, moist		Fill
	4									
1	6		17		3.1	0	X			
	7	2		2				Lt. brown SILT, some fine Sand, few Shale fragments, moist		
2										
	7	2		2	17-			AA, wet		
	19									
3	36		2.0		3.2	0	X	Gray. weathered Shale, (fragments to 2" dia) dry		
	67	4		4						
4										
	67	4		4	17-			AA, wet		
5	100/3		.7		3.3	0	X			
		6		6						
6								Spoon refusal @ 4.8' Augered to 6.0'		
7										
8										
10										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW 17-4

PROJECT : 10 SWMU

LOCATION : SEAD 17

JOB NO.: 720477

EST. GROUND ELEV.: 732.453

START DATE: 11/30/93

FINISH DATE: 12/1/93

CONTRACTOR: Empire

DRILLER: John W.

INSPECTOR: ES/LB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000	0	1520	11/30/93			partly
								Cloudy
								cold

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

Dust meter has high readings.
Sent home

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW17-4

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	
Dust		—	

COMMENTS:

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 11-30-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	3	0		0				Med. brown SILT, some Clay, trace		
1	5		2'		13-4.1	0	X	Shale fragments, moist.		
	7									
	7	2		2						
2										
	17	2		2				AA, wet		
	48		1.8'		13-4.2		X	weathered Shale, dry		
3	77									
	60	4		4						
4	100/.2									
5								Spoon refusal at 4.0		
								Augered to 6.0'		
6										
10										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: SB 24-1

PROJECT: SEAD

LOCATION: Romulus NY, SB 24

JOB NO.: 720477

EST. GROUND ELEV.: 633.811

START DATE: 11/30/93

FINISH DATE: 11/30/93

CONTRACTOR: Empire

DRILLER: SCOTT

INSPECTOR: BH/MCB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1425	11/30/93			Sunny/cold
RAD		0-100	16-18	1425	11/30/93			
DUST		0-0.99	0	1425	11/30/93			
OVM			0	0950	12/1/93			
RAD			16-18	0950	12/1/93			
DUST			0	0950	12/1/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: USACOE | BORING #: SB 24 – 1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1425
RAD	0-100	16-18	1425
DUST	0-0.44	0	1425

COMMENTS:

DRILLER: SCOTT
INSPECTOR: BH / MCS
DATE: 11/30/93 – 12-1-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	PENETRATION RANGE (FEET)	RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	2	0		0	24-			Organic material roots Sand		
	5				1.1					
1	5	2	2		24-	0	X			
	8			2	1.7 med			Sandy clay few small rocks		
2	15	2		2				few Oxidation spots		
	15				24-					
3	23		2.1		1.2	0	X			
	23	4		4				more rocks sand moist		
4	18	4		4	24-					
	24									
5	32		2		1.3	0	X			
	44	6		6				wet		
6	100	6								
7	100/.6		.2	–	–	0	X			
		8						Rocks broken shale sand		
8	18	8		8	24-					
	32									
9	45		2		1.4	0	X			
	72	10		10						
10	18	10		10	24					
	38									
11	60		1.8		1.5	0	X	gravel + shale		
	100/.2	12		12				water level 12'		
12	41	12		12	24					
	84									
13	100/.2		1.1		1.6	0	X			
		14		14				Auger refusal AT 13.8'		
14										
15										
16										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB 24-2.1

PROJECT: SEAD 24-10 SWMU

LOCATION: Romulus NY

JOB NO.: 720477-01001

EST. GROUND ELEV.: 633.307

START DATE: 12-1-93

FINISH DATE: 12-1-93

CONTRACTOR: Empire

DRILLER: Jeff

INSPECTOR: BH / MEB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		2'x3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1255	12-1-93			Sunny/cold
RAD		0-100	15-17 uR/H	1255	12-1-93			
DUST		0.99	0	1255	12-1-93			
OVM			0	1435	12-1-93			
~~DUST~~ RAD			15-17	1435	12-1-93			
DUST			0	1435	12-1-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING #: S824-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1255
RAD	0-100	15-17	1255
OVST	0-0.99	0	1255

COMMENTS:

DRILLER: SCOTT
INSPECTOR: BH MCB
DATE: 12-1-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
								ORGANICS, ROOTS SILTY CLAY SAND		
	1	0		0	24					
1	3		1.5		2.1	0	X			
	6							Sand clay		
2	5	2		2						
	6	2		2	24			WET AREA		
3	12		2		2.2	0	X			
	15							Varicolored Clay		
4	17	4		4						
	17	4								
5	17		0.1	—	—	0	X	wet		
	22									
6	26	6								
	19	6		6	24			Clay Sand Rock		
7	35		2.3			0	X	Shale		
	44				2.3					
8	100/.4	8		8						
	30	8		8						
9	100/.4		.9		—	0	X			
10		10		10				water level 10'		
	22	10		10						
11	100/.4		.6	—	—	0	X			
		12		12				Gray Rock, shale		
12	12	12		12	24					
13	80		1.1		2.4	0	X			
	100/.2							Split spoon refusal 13.2'		
14										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB 24-3,1

PROJECT: SEAD 24 - 10SWMU

LOCATION: Romulus NY SEAD 24

JOB NO.: 720477-01001

EST. GROUND ELEV.: 629.543

START DATE: 12-2-93

FINISH DATE: 12-2-93

CONTRACTOR: Empire

DRILLER: Scott

INSPECTOR: BH/MCS

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2'x3"	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1420	12-2-93			Partly Cloudy
RAD		0-100	15-17	1420	12-2-93			
DUST		0-0.99	6	1420	12-2-93			
OVM			0	1515	12-2-93			
RAD			15-17	1515	12-2-93			
DUST			0	1515	12-2-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: USACOE | BORING #: 24-9, 1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1420
RAD	0-100	15-17	1420
OVSF	0-.39	0	1420

COMMENTS:

DRILLER: SCOTT
INSPECTOR: BH/MO
DATE: 12-2-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	2	0		0	4			organic material small		
	6							Sand clay reddish		
1			1.9		3.1	0	X			
1420	6			2						
2	7	2						↓		
	8	2		2	4					
	9					0	X	Rocks Loose shale		
3			1.5							
1430	12				3.2					
4	17	4		4						
	8	4		4	4					
5										
	12		2.0			0	X	more Shale, rocks, sandy clay		
1435	15				3.3					
	15	6		6						
6	27	6		6	4					
	45					0	X	~~dense~~ Shale, Sand		
7			2.3							
1500	60				3.4					
	60	8		8						
8	27	8		8	4					
	74					0	X	Red rock, Shale		
9			1.4					rust colored sand		
1510	100/.3									
10		10		10	3.5			Split Spoon refusal 10.1'		
	~~1540~~									
11	100/.1									
12										
13										
14										
15										
20										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: US ACOE	BORING NO.: 24-4.1

PROJECT: SEAD

LOCATION: Romulus, NY

JOB NO.: 720477-01001

EST. GROUND ELEV.: 631.092

START DATE: 12-1-93

FINISH DATE: 12-2-93

CONTRACTOR: Empire

DRILLER: Fritt/Swift

INSPECTOR: Bt/MB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1510	12-1-93			Sunny cold
RAD		0-100	14-17	1550	12-1-93			
DUST		0 0.35	0	1550	12-1-93			
OVM			0	0855	12-2-93			Cloudy/cool
RAD			15-17	0855	12-2-93			
DUST			[illegible]	0855	12-2-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: USACOE | BORING #: 93 24-4

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1500
RAD	0-100	14-17	1550
DUST	0-095	0	1550

COMMENTS:

DRILLER: SCOTT
INSPECTOR: DH/MCJ
DATE: 12-1-93 - 12-2-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	1	0		0	24			Organic material, roots, worms Sand Clay		
1	2		1.4			0	X			
	5			2	4.1					
	8	2						Sand, clay, Gravel very wet		
2	8	2		2	24					
	10		1.7			0	X			
3	30				4.2					
	30	4		4						
4	22	4		4	24					
	24		1.9			0	X			
5	28				4.3			Small Rocks clay Sand some shale		
	30	6		6						
6	60	6		6	24					
	54		2.3			0	X			
7	56				4.4					
	60	8		8						
8	28	8		8	24					
	45		1.1			0	X	more shale clay Sand		
9	45				4.5			water level 10'		
	50	10		10						
10	26	10		10	24					
	32		1.9			0	X			
11	36				4.4					
	60	12		12						
12	60	12		12	24					
	75		1.7			0	X	dirt Shale SPLIT SPOON Refusal 13.4'		
13	100/.4				4.7					
		14		14						
14										
15										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB24-5.1 MW24-1

PROJECT: SEAD

LOCATION: Romulus NY SEAD 24

JOB NO.: 726477-01001

EST. GROUND ELEV.: 635.374

START DATE: 12-1-93

FINISH DATE: 12-1-93

CONTRACTOR: Empire

DRILLER: Scott

INSPECTOR: BHLing

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2'x3"	SS	HMR	140# 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1032	12-1-93			Sunny/cold
RAD		0-100	16-18	1032	12-1-93			
DUST		0-0.99	0	1032	12-1-93			
OVM			0	1115	12-1-93			
RAD			16-18	1115	12-1-93			
DUST			0	1115	12-1-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: 24-5

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1110
RAD	0-100	16-18	1110
DUST	0-0.99	0	1110

COMMENTS:

DRILLER: SCOTT
INSPECTOR: BH/MCB
DATE: 12-1-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	PENETRATION RANGE (FEET)	RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	1	0		0	24			Organic Material, Roots Sand		
1	2		1.8		5.1	0	X	Sand Small, Rocks, Clay, MOIST		
	6									
	6	2		2						
2	8	2		2	24					
3	9		2.3		5.2	0	X			
	10									
	14	4		4				Very Soft Sand Shale Oxidized metal object		
4	18	4		4	24					
5	21		2.0			0	X	Small Rocks, little Shale		
	23				5.3					
	25	6		6						
6	26	8		6	24					
7	22		2.3			0	X	lots of Shale Clay Rocks		
	18									
	14	8		8	54					
8	70	8		8	24			water level 8.5 feet		
9	100/.3		.9			0	X			
		10		10	55			Auger refusal 10'		
10										

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC.	CLIENT: ACOE	BORING NO.: MW24-2

PROJECT: 10 SWMU

LOCATION: SEAD-11

JOB NO.: 720477-01001

EST. GROUND ELEV.: 629.856

START DATE: 11/5/93

FINISH DATE: 11/6/93

CONTRACTOR: Empire

DRILLER: Al

INSPECTOR: ES/LB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3" x 2'	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0-2.6	13:10	11/5/93			
Rad		0-100	13.9-19	1310	11/5/93			
Dust		0-0.95	0	1310	11/5/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW24-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0 - 2000	0-2.6	1310
Rad	0-100	13.9-19	1310
Dust	0-0.99	0	1310

COMMENTS:

DRILLER: Empire / AI
INSPECTOR: ES / LB
DATE: 11/5/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	1	0						.6' topsoil		
1	4		1.6	—	—	0	20	Lt. brown SILT, little Clay, little Shale fragmts (.25 - .5") moist.		
	8									
2	17	2								
	11	2								
3	14		1.9	—	—	0	24	Lt. brown - green gray SILT, little Clay, little Shale fragments, (~~rounded~~) and cobbles (rounded), moist - dense.		till?
	27									
4	27	4								
	28	4						AA, little Cobbles and Shale fragments (1.5" dia.), moist, dense		
5	39		1.9	—	—	0	12			
	49									
6	100/.4	6								till
	78	6	1.0							
7	120			—	—	0	12.5			
			NR							
8		8						Lt. brown fine SAND, little Silt, little Shale fragments, moist, dense		till
	88	8						Gray SILT, some Shale fragments (.25"-1" dia.), little Silt, moist - dense		till
9	120		1.3	—	—	0	12			
			NR							
10		10								
	92	10								weath Shale
11	130		NR	—	—	—	—	weathered Shale		
12		12								
	100/.1	12			—			Spoon refusal @ 12.0		
13				—				Augered to 16.0'		
14		14								
	100/.1							Note: Driller put down 2½" spoon & recovered rock flour.		
15										
16								Water at 10.4'		
17										
18										
19										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW24-3

PROJECT: 10 SWMU
LOCATION: SEAD. 24

JOB NO.: 720477-01001
EST. GROUND ELEV.: 629.080
START DATE: 11/6/93
FINISH DATE: 11/6/93
CONTRACTOR: Empire
DRILLER: Al
INSPECTOR: ES/LB
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		2' x 3"	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1110	11/6/93			Cloudy, cool
Rad		0-100	15-17	1110	11/6/93			
Dust		0-0.99	0	1110	11/6/93			
OVM			0	1320	11/6/93			
Rad			13-22	1320	11/6/93			
Dust			.04	1320	11/6/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW24-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1110
Rad	0-100	15-17	1110
Dust	0-0.99	0	1110

COMMENTS:

DRILLER: Empire / Al
INSPECTOR: ES/LB
DATE: 11/6/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	3	0						topsoil, roots.		
	11							Med brown silt and CLAY		
1	21		1.7	—	—	0	22	Lt. brown SILT, little Clay, trace Shale fragmts, (.25"-.5" dia.) moist, dense, oxidation		till?
	34	2								
2	21	2								
	24		1.6	—	-	0	15			
3	79									
	100/.2	4						Shale fragm. at 3.6' (.2' dia.)		
4	59	4								
	36		1.8	-	-	0	18	AA, little Shale fragments (to 1.5" dia.) oxidation, moist, dense.		
5	67									
	58	6								
6	80	6								
	91		1.4	-	-	X	V			
7	110									
	110	8								
8	88*	8								
	100/.4		1.4	—	-	0	3.6	Med brown SILT, little Clay, little fine sand, some Shale fragments (to 1.5" dia.) moist —		
9										
		10								▽
10	100/.3	10						Med. brown SILT, little Clay, some Shale fragments, COBBLES (1-2" dia.), wet		3
			0.7	-	-	0	27.2			
11										
		12								
12	27	12						Gray SILT, little Clay, ~~trace~~ little shale fragments (to 1" dia) wet, dense.		
	100/.3		1.0	—	—	0	21.1			
13										
		14								
14	100/.1									
15								Augered to 15.0'		
								Water @ 10.0'		
16										
17								* Hammer broken; now using 300# hammer.		
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB25-1

PROJECT: SEAD-10SWMU

LOCATION: Romulus NY SEAD-25

JOB NO.: 720477-0100

EST. GROUND ELEV.: 743.504

START DATE: 12-3-93

FINISH DATE: 12-3-93

CONTRACTOR: EMPIRE

DRILLER: SCOTT

INSPECTOR: BH/MBB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		~~0~~-2000	0	1415	12-3-93			Partly cloudy 1
RAD		0-100	15-16	1415	12-3-93			
DUST		0.99	0	1415	12-3-93			
OVM			0	1440	12-3-93			
RAD			14-16	1440	12-3-93			
DUST			0	1440	12-3-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: ~~AMD~~ SB 25-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1415
RAD	0-100	14-16	1415
DOST	0-0.99	0	1415

COMMENTS:

DRILLER: Scott
INSPECTOR: BH/MCB
DATE: 12-3-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	8	0		0	25			Surface Gravel, Sand, Blackened Sand wet ~~Strong~~ Petroleum Smell		
	10									
1			1.0	–	1.1	0	X			
	10									
	16	2		2				Sandy, Clay, Some Oxydation		
2										
	6	2		2	25					
	12							Pieces of Shale		
3			1.2	–	1.2	0	X			
	14									
	20	4		4						
4										
	27	4		4	25					
	45									
5			1.9		1.3	0	X			
	60									
	60	6		6						
6										
	~~45~~	6		6	25			dry Sand + Shale		
	95									
7			~~1.7~~			0	X			
	100/.1	(7.1)			1.4			Split spoon refusal 7.1 feet		
		~~8~~	1.1	8						
8										
9										
10										

PAGE OF

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: SB25-2

PROJECT: 10 SWMU

LOCATION: SEAD 25

JOB NO.: 720477-01001

EST. GROUND ELEV.: 743.692

START DATE: 12-3-93

FINISH DATE: 12-3-93

CONTRACTOR: Empire

DRILLER: John W

INSPECTOR: ES/LB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3"x2'	SS	Hme	140/30#

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM			0-0.7	1250	12-3-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: SB25-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0-0.7	1250

COMMENTS:

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 12/3/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	10	0		0	25-			Gray weathered Shale fill, gray SILT, and ~~some~~ shale fragments		
1	15				21					
	11		1.4		25-	0	X			
					24					
2	10	2		2	25-24 MRO					
	10	2		2	25-			Gray SILT and CLAY, some Cobbles (.25 to 1.0" dia.) moist		
3	11		1.6		22	A	X			
	20									
	22	4		4						
4	17	4		4	25-			Lt. brown SILT, some Clay, little Shale fragments, moist, heavy petroleum odor.		
	34				2.3					
5	100/.1	5.1	1.0'			125	X			
		~~6~~		6						
6								Spoon refusal at 5.1'		

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO. S825 - 3

PROJECT: SEAD 10 SWMU

LOCATION: Romulus, NY, SEAD 25

JOB NO.: 720477-01001

EST. GROUND ELEV.: 743.805

START DATE: 12-3-93

FINISH DATE: 12-3-93

CONTRACTOR: Empire

DRILLER: Jeff

INSPECTOR:

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2' x 3"	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1004	12-3-93			P.Cloudy, cool
RAD		0-100	15-16	1004	12-3-93			
DUST		0-0.99	0	1004	12-3-93			
OVM			0	1020	12-3-93			
RAD			14-16	1020	12-3-93			
DUST			0	1020	12-3-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: USACOE | BORING #: SB 25-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1004
RAD	0-100	15-16	1004
DUST	0-0.99	0	1004

COMMENTS:

DRILLER: SCOTT
INSPECTOR: BH/MCS
DATE: 12-3-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT. Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	12	0		0	25			Surface Gravel, Sand		
1	14		1.6		3.1	22.0	X	Blackened Gravel Petroleum Smell Clay		
	16									
2	10	2		2						
	12	2		2	25			Petroleum Smell		
	14									
3	18		2			20	X	Sand, clay Grey Color		
	20	4		4	3.2					
4	6	4		4	25			Broken Shale, rocks, Sand, Clay		
	100/3	5	.6	5	3.3	1.3	X			
5								Auger refusal 5.0'		

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING NO.: SB25-4

PROJECT: SEAD 10 SWMU

LOCATION: Romulus NY

JOB NO.: 720477-01001

EST. GROUND ELEV.: 743.613

START DATE: 12-3-93

FINISH DATE: 12-3-93

CONTRACTOR: Empire

DRILLER: Scott

INSPECTOR: Bitlack

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		2' x 3"	SS	HMR	140# / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1152	12-3-93			P, Cloudy, cool
RAD		0-100	14-15	1152	12-3-93			
DUST		0-0.99	0	1152	12-3-93			
OVM			0	1220	12-3-93			
RAD			14-16	1220	12-3-93			
DUST			0	1220	12-3-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: USACOE | BORING #: 98 25-4

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1152
RAD	0-100	14-15	1152
ADST	0-0.99	0	1152

COMMENTS:

DRILLER: SCOTT
INSPECTOR: DH/MCS
DATE: 12-3-93

	DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	PENETRATION RANGE (FEET)	RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
		12	0		0	25			Shale Green rocks Black Gravel		
1152	1	13							Petroleum Smell		
		8		1.1		4.1	15	X			
	2	7	2		2				Sandy Clay ~~[illegible]~~		
		6	2		2						
1200	3	60				25			Clay Hard Black Shale		
		25		1.9		4.2	40	X	Strong Petroleum Smell		
	4	25	4		4						
		45	4		4	25					
1211	5	100/.1		.5		4.3	1.0	X	Shale Dry		
									Split Spoon refusal 4.7'		
	6				6						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: SB 25-5

PROJECT: 10 SWMU
LOCATION: SEAD 25

JOB NO.: 720477-01001
EST. GROUND ELEV.: 743.629
START DATE: 12-3-93
FINISH DATE: 12-3-93
CONTRACTOR: Empire
DRILLER: John W
INSPECTOR: ES/LB
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		3" x 2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000	0-0.7	1430	12-3-93			overcast
			2.3	1440	12-3-93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: SB25-5

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0-0.7	1430
		2.3	1440

COMMENTS:

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 12-3-93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
1	7, 10, 13	0		0	25-5.1	155	X	Weathered Shale fill, wet		
2	10, 11	2		2						
3	12, 17	2	1.6	2	25-5.2	69	X	Greenish gray SILT and CLAY, some Shale fragments (.25" dia) dense, wet., petroleum odor		
4	24	4		4						
5	17, 52, 100/.4	4	1.2	4	25-5.3	213	X	cobbles to 2" dia.		
6		6		6				Med. brown SILT, some CLAY, so little Shale fragments, moist, very dense.		
7								Augered to 5.5'		
8										

Note: When reading high VOC on sample, background (breathing space over sample) and at rig were 2.3 ppm. In hole reading 63.0 ppm

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW25-1

SB25-6

PROJECT: 10 SMWU

LOCATION: SEAD 25

JOB NO.: 720477-01001

EST. GROUND ELEV.: 740.261

START DATE: 12-3-93

FINISH DATE: 12-3-93

CONTRACTOR: Empire

DRILLER: Bob/JOHN

INSPECTOR: ES/LB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8.5"		2' x 3"	SS	HMR	140# /30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000	0	1000	12/3/93			cloudy 40°C

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

Dust meter had readings [illegible]

[illegible] was tremied

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	BORING #: MW25-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM			950
Dust		.49	950

COMMENTS:

DRILLER: Empire / SB25-6
INSPECTOR: ES/LB
DATE: 12/3/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	5	0		0	SB 25-			Topsoil		
1	15		2		6.1	.7	X	Med. brown SILT, some Clay, little Shale fragments, moist ✓ Shale fragments (1.5" dia) at interface		
	17									
2	15	2		2				Med. brown fine SAND, little Silt, little Shale fragments. moist		
	19	2		2	SB 25-					
3	19		1.9			.7	X			
	32				6.2					
	85	4		4				Weathered Shale, wet		
4	100/.3							Spoon Refusal 4.3'		
5								Augered to 5.0'		
6										
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW25-2

PROJECT: 10 SWMU
LOCATION: SEAD 25

JOB NO.: 720477-01001
EST. GROUND ELEV.: 743.815
START DATE: 11/7/93
FINISH DATE: 11/7/93
CONTRACTOR: Empire
DRILLER: Al
INSPECTOR: ES/CB
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3"x2'		HMR	300#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1100	11/7/93			Cloudy
Rad		0-100	14-16	1100	11/7/93			
Dust		0-.99	.20	1100	11/7/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | BORING #: MW25-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1100
Rad	0-100	14-16	1100
Dust	0-.99	.20	1100

COMMENTS:

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 11/7/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	PENETRATION RANGE (FEET)	RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	18	0						.3' topsoil		
1	12		1.8	—	—	0	20	Green-gray SILT, some Clay, ~~st~~ some Shale fragments (to 1.5" dia.) moist		
	11									
2	7	2						Green-gray SILT and CLAY, moist		
	10	2				*		Green-gray SILT and CLAY, 1-4% Shale fragments, (.25"), wet, strong odor.		
3	8		1.6			63	12			
	9									
4	20	4						NR		
	20	4				*		AA, moist, dense.		
5	18		1.4			280	109			
	100/3		1.3							
6		6								
	100/.1							Spoon refusal @ 6.0'		
7								Augered to ~~8.0~~ 8.5'		
8										
9										
10										
15								* No VOC reading in headspace. OVM reading 65 ppm downhole.		
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW25-3

PROJECT: 10 SMWU
LOCATION: SEAD 25

JOB NO.: 720477
EST. GROUND ELEV.: 743.270
START DATE: 11-7-93
FINISH DATE: 11/7/93
CONTRACTOR: Empire
DRILLER: Al
INSPECTOR: CS/LB
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"	5	3" x 2'		HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0.5-2	1425	11/7/93			cloudy 30°F
Rad		0-100	12-16	1425	11/7/93			
Dust		0-.99	-.04	1425	11/7/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW25-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	.5-2	1425
RAD	0-100	12-13/16	1425
DUST	0-0.99	.04	1425

COMMENTS:

DRILLER: Al
INSPECTOR: ES/LB
DATE: 11/7/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	10	0						top soil		
1	11		1.5	-	-	0	16.7	Lt. brown SILT and CLAY, little shale fragments, oxidation, moist		
	12									
2	12	2								
	21	2						AA.		
3	16		1.0	-	-					
	20									
4	100/.4	4								
5								Spoon Refusal @ 3.9'		
								Augered to 6.5'		
6										
7										
8										
9										
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | **CLIENT:** ACOE | **BORING NO.:** MW26-1

PROJECT: 10 SWMU.
LOCATION: SEAD 26

JOB NO.: 720477-01001
EST. GROUND ELEV.: 751.340
START DATE: 11/7/93
FINISH DATE: 11/7/93
CONTRACTOR: Empire
DRILLER: John
INSPECTOR; ES
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3" x 2'	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0-2000		1035	11/17/93			raining
Dust		0-.99			11/17/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW26-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	1035
Dust	0-0.99		1035

COMMENTS: Raining

DRILLER: Empire
INSPECTOR: ES/LB
DATE: 11/17/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	40	0			26			Weathered SHALE fill		
1	26		1.7	X	1.1	0	X			
	22							Lt. brown SILT, some shale fragments, some COBBLES, little clay, oxidation, moist		
	30	2								
2	39	2						Lt. brown fine SAND, some shale fragments, some cobbles, little Clay, moist		
	20		1.7	X	26	0	X			
3	24				1.2					
4	100/.4	4						Weathered Shale.		
	100/.1									
5			NR							
								Augered to 6.0'		
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW26-2

PROJECT: 10 SWMU

LOCATION: SEAD 26

JOB NO.: 720477-01001

EST. GROUND ELEV.: 759.024

START DATE: 11/18/93

FINISH DATE: 11/18/93

CONTRACTOR: Empire

DRILLER: John

INSPECTOR: ES/LB

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3" x 2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0 - 2000	0	0930	11/18/93			sunny.
Dust			.33	0930	11/18/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: MW26-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	0930
DUST	0-0.99	.33	0930

COMMENTS:

DRILLER: Empire Lab.
INSPECTOR:
DATE:

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	8	0			26-			Topsoil		
1	12		1.7		2.1, 2.5,	0	X	gray weath. SHALE fill.		Fill
	15									
2	17	2			2.1 MRD					
	16	2			26-			Lt. brown SILT, some Clay, some shale fragments (to 1.5" dia.) moist.		
3	23		1.3		2.2	0	X			Fill
	43									
4	21	4								
	10	4			26-			Lt. brown SILT, some CLAY, some Shale fragments, dense.		
5	15		1.5		23	0	X			
	14									
6	15	6								
	3	6			26-			Lt brown SILT, some Clay, little Cobbles (to 2" dia-rounded) oxidation, trace fine sand, moist		
7	4		1.0		24	0	X			
	6									
8	9	8								
	8	8			26-					
9	9		1.9		2.6	X	X			
	10									
10	15	10				*				
	6	10			26-			Lt. brown fine SAND, some Silt, oxidation, moist ← sand lense - med. sand		
11	7		2.0		2.7	X	X			
	7									
12	9	12						Lt. brown SILT, some Clay, little shale fragmts, oxidation, wet, weathered shale		
	100/.4									
13										
14								Augered to 14.0'		
15										
								* OVM not working		
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW26-3

PROJECT: 10 SWMU
LOCATION: SEAD 26

JOB NO.: 720477-01001
EST. GROUND ELEV.: 751.567
START DATE: 11/18/93
FINISH DATE: 11/19/93
CONTRACTOR: Empire
DRILLER: John W.
INSPECTOR: ES
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		2'x3"	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM			0.0	1450	11/18/93			sunny
Dust			0.04	1450	11/18/93			
OVM			0-0.1	800	11/19/93			cloudy
Dust			0	800	11/19/93			windy

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW26-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM		0.0	1450
DUST		.02	1450

COMMENTS:

DRILLER: Empire
INSPECTOR:
DATE: 11/18/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	6	0						Topsoil		
1	9		1.7		26' 3.1	0	X	Lt. brown SILT, some Clay, little Shale fragments, moist., oxidation		
	12									
	4	2								
2	9	2								
3	9		1.6		26' 3.2	0	X			
	7									
	8	4								
4	5	4								
5	5		1.6		26' 3.3	0	X			
	7									
	9	6								
6	10	6								
7	10		2.0		26' 3.4	0.6	X	Dark brown SILT, some Clay, little Shale fragments extensive oxidation, moist to wet		
	15									
	10	8								
8	7	8								
9	9		1.5		26' 3.5	0	X	AA, oxidation		
	10									
10	10	10								
	6	10						AA, moist to wet		
11	10		1.7		26' 3.6	0	X			
	29							Gray weathered Shale, dry.		
	19	12								
12	52							AA, wet.		
13	100/.4									
14								Spoon refusal @ 12.5' Augered to 14.0'		
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW26-4

PROJECT: 10 SWMU

LOCATION: SEAD 26

JOB NO.: 720477-01001

EST. GROUND ELEV.: 750.012

START DATE: 11/19/93

FINISH DATE: 11/19/93

CONTRACTOR: Empire

DRILLER: John

INSPECTOR: ES

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3" x 2'	SS	HMR	140#/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM			0	930	11/19/93			cloudy
Dust			0.45	930	11/19/93			windy

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING #: MW26-4

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM		0.0	930
Dust		0.45	930

COMMENTS:

DRILLER: Empire
INSPECTOR: ES
DATE: 11/19/93

DEPTH (FT)	SAMPLING BLOWS PER 6 INCHES	PENE-TRATION RANGE (FEET)	RECOV-ERY RANGE (FEET)	SAMPLE DEPTH INT (FEET)	SAMPLE NO.	VOC	RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	7							Topsoil		
1	12		1.2		26 4.1	0	X	weak Shale fill		
	12									
2	9									
	9							Med. brown SILT, and weak Shale		Fill
3	8		1.4		26 4.2	0	X	fragments (to 2" dia.) moist.		
	9									
4	6									
	8									
5	9		1.4		26 4.3	0	X			
	10									
6	12									
	11							Med brown SILT, some Clay, little		
7	10		2.0		26 4.4	0		Shale fragments (.25") moist		
	17									
8	24									
	38							weathered Shale, dry		
9	106		1.0		26 4.5	0				
10										
								Spoon refusal @ 9.0'		
								Augered to 11.5'		
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW-45-1

PROJECT: 10 SWMU

LOCATION: SEAD - 45

JOB NO.: 720477-0100

EST. GROUND ELEV.: 622.794

START DATE: 11/20/93

FINISH DATE: 11/21/93

CONTRACTOR: Engineering Science

DRILLER: EMPIRE Soils

INSPECTOR: KS/AW

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8 1/2"		3" x 2'	SS	HMR	140 / 30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM	PID	0-2000	0	1:00 pm	11/20/93			Cold (30
DUST		0-0.99	0.03	1:00 pm	11/20/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: MW-45-1

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME PM
OVM	0-2000	0	1:05
DVST	0 - 0.99	0.03	1:05

COMMENTS:

DRILLER: Empire (B.)
INSPECTOR: AMW / KS
DATE: 11/30/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
	10	0'	0'			Ø		Dk. brown clay with angular shale		
1	11	↓	↓		N/A			clasts and rusted areas. Silt.	Till	Till
	16	2'	1.5'							
2	20									
	25	2'	2'			Ø		Same dark brown silt and clay.		
3	25	↓	↓		N/A			rust regions within sample.	Till	Till
	36	4'	3.8'					Uniformly mixed sediment/rock/frag.		
4	32									
	75	4'	4'			Ø		Highly weathered shale, dk. gray.	Shale	Shale
5	100/.2	4.4'	4.9'	N/A				(spoon refusal) dry.		
6										
7										
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | BORING NO.: MW45-2

PROJECT: 10 SWMU

LOCATION: SEAD 45

JOB NO.: 720477-01001

EST. GROUND ELEV.: 624.66ft

START DATE: 11/20/93

FINISH DATE: 11/21/93

CONTRACTOR: Empire

DRILLER: John W

INSPECTOR: JC/AS

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8½"		3"x2'	SS	HMR	140/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM		0 - 2000	0	1515	11/20/93			
Dust			0.03	1515	11/20/93			

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS:

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG		
WELL INSTALLATION DETAILS		
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING–SCIENCE, INC. | CLIENT: ACOE | BORING #: MW-45-2

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM	0-2000	0	3:15
DUST	0-0.99	0.03	3:15

COMMENTS: Dust meter maxed at 0.38

DRILLER: Bob/Scott
INSPECTOR: AMW/KS
DATE: 11/20/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
1	10, 13, 19, 25	0' ↓ 2'	0' ↓ 1½'	N/A		Ø		Dk. brn. silty clay with angular shale/limestone clasts (¼") Oxidized spots. Rusted metal frag.	Till	
2, 3	30, 24, 26, 30	2' ↓ 4'	2' ↓ 3.3'	N/A		Ø		Dk. brn. silty clay. Dry & hard packed. Angular shale clasts (½") with rusting metal. Some wood.	Till	
4, 5	10, 36, 48, 55	4' ↓ 6	4' ↓ 4.7'	N/A		Ø		Dk. brown silty clay with sm. shale clasts, rusty areas and one zone of white crystalline powder (¼") rewd.	Till →	
6, 6.4	100/.4	6 ↓ 6.4						spoon refusal @ 6.4'		
8, 9, 10	16, 26, 34, 40	8' ↓ 10'	8' ↓ 9.5'	N/A		Ø		Dk. grey weathered shale.	Shale	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

BORING #:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD ACOE | BORING NO.: MW45-3

PROJECT: SEAD 10 SWMU SEAD45
LOCATION: MW45-3

JOB NO.: 720477-01001
EST. GROUND ELEV.: 623.991
START DATE: 11/21/93
FINISH DATE: 11/22/93
CONTRACTOR: ENGINEERING-SCIENCE
DRILLER: EMPIRE SOILS
INSPECTOR: JWC/AS
CHECKED BY:
CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8'6"	2' INTERVALS	3" x 24"	SPLIT SPOON	HAMMER	140lb/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY NO READINGS ABOVE BACKGROUND

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM-580B	10.0 ev/8.6lb	0-2,000 ppm	0	3:30	11/21/93	8:30 PM	11/21/93	OVERCAST COLD
RAD.-190B	CS-137 γ	0-100	BACKGROUND 10-18 mR/h	"	11/21/93	FACTORY CALIBRATED		"
PDM-3	DUST COUNTER WINDOW	0-0.99	0.05	"	11/21/93	Z-BAG CAL.		"
OVM-580B	10.0 ev/8.6LB	0-2,000 ppm		0900	11/22/93			SUNNY COOL, MILD
VICTOREEN-190B	CS-137 γ	0-100		"	11/22/93			"
PDM-3	DUST COUNTER WINDOW	0-0.99		"	11/22/93			"

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS: No SAMPLES - CONTINUOUS SPOONING DOWN TO Competent BEDROCK UNIT
DRILLERS 1 3/4 GETTING WATER
ONE HOUR LATE 11/22/93 (0800 ARRIVAL)
* Limestone unit present

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG	✓	
WELL INSTALLATION DETAILS	✓	
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD USACOE	BORING #: MW45-3

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME
OVM 580B	0-10'	✓	3:30-4:30
RAD-1908	0-10'	✓	"
DUST	0-10'	✓	"

COMMENTS: TILL UNIT THROUGHOUT with interbedded SHALE LAYERS 10" LIMESTONE UNIT at 3'6" SPOON refusal @

DRILLER: John Warren

INSPECTOR: JWC/AS

DATE: 11/21/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
1	9, 16, 20, 20	2'	21"	2'	–	∅	BGD	DARK FILL (SANDY) LAYER WITH SMALL (SILTY) INTERBEDDED SHALE FRAGMENTS. Some LARGE Rock pieces (LIMESTONE)	TILL	LIMESTONE
3	20, 30, 32, 36	2'	19"	4'	–	∅	BGD	TOP 9" INTERBEDDED SHALE FRAGMENTS WITHIN TILL. BOTTOM 10" WHOLE Lithic UNITS OF LIMESTONE (LIGHT GREY)	TILL	LIMESTONE
5	19, 34, 36, 58	2'	16"	6'	–	∅	BGD	WELL DISPERSED SHALE LAYERS WITHIN TILL UNIT MEDIUM BROWN-GREY IN COLOR	TILL	SHALE
7	74, 65, 85, 56	2'	22"	8'	–	∅	BGD	FRAGMENTED SHALE UNITS within WEATHERED SHALE LAYER CLASTIC TILL REACHES STILL EVIDENT DARK GREY	TILL / SHALE	
9	14, 50, 80, 77	2'	24"	10'	–	∅	BGD	FRAGMENTED SHALE UNITS W/ LIMESTONE CLASTS DARK GREY UNIT VERY Homogeneous VERY REGULAR throughout	TILL / SHALE	
11	14, 25, 100/1"	1'	11"	11'	–	∅	BGD	SPOON refusal @ 11'1" LIMESTONE CLASTS DARK TILL with DARK SILTY FINE SAND - SHALE at Bottom 1" (WET ZONE)	SILTY SAND SHALE	
								AUGER Refusal AT 11'4"		

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | BORING NO.: MW45-4

PROJECT: SEAD 10 SWMU INVESTIGATION

LOCATION: SEAD SWMU 45

JOB NO.: 720477-01000

EST. GROUND ELEV.: 630.896

START DATE: 11/22/93

FINISH DATE: 11/22/93

CONTRACTOR: ENGINEERING-SCIENCE

DRILLER: EMPIRE SOILS

INSPECTOR: JWC/AA

CHECKED BY:

CHECK DATE:

DRILLING SUMMARY:

DRILLING METHOD	HOLE DIA.	DEPTH INT.	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	8'6"	2' INTERVALS	24"x3"	(SS)	HAMMER	140lb/30"

DRILLING ACRONYMS:

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUIPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER
OVM-580B	10.6 ev/Bulb	0-2,000 PPM						
VICTOREEN 1908	CS-137							
MIE PDM-3	DUST COUNTER WINDOW							

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION		

COMMENTS: SWMU-45 BACKGROUND WELL

OTHER REPORTS	DATE/PENDING	N/A
WELL DEVELOPMENT		
SURVEYOR		
CORE LOG	✓	
WELL INSTALLATION DETAILS	✓	
HYDRAULIC TESTING		
GEOPHYSICAL LOGGING		

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING NO.:

OVERBURDEN BORING REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD USACOE	BORING #: MW45-4

MONITORING			
INSTRUMENT	INTERVAL	BGD	TIME

COMMENTS:

DRILLER: Bob Townshend/c
INSPECTOR: JWC/aa
DATE: 11/22/93

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
										TOPSOIL
1	2, 5, 12, 15	2'	18"					TOPSOIL 1" SILTY TILL UNIT with SHALE FRAGMENTS INTERBEDDED THROUGHOUT IRON STAINED AREA AT 8" INTO THE UNIT Bottom 9" VERY COMPACTED TILL with Low POROSITY DARK GREY	TILL	
2										
3	21, 31, 38, 38	2'	19"					MEDIUM-GREY TILL w/ SOME LIMESTONE CLASTS AND FRAGMENTED SHALE pieces DISPERSED THROUGHOUT unit IN SMALL AMOUNTS	TILL	
4										
5	73, 100/3", —, —	2'	9"					SPOON REFUSAL 4'9" TOP 3" TILL w/ INCREASED SHALE content Bottom 6" WEATHERED SHALE UNIT	SHALE	
6										
7	73, 100/3.5"	2'	7"					WET WEATHERED SHALE 6'9" CONFIRMED SHALE UNIT SPOON Refusal	SHALE	
8										
9										
10										
15										
20										

 SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS BORING #:

Test Pit Logs

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACE | TEST PIT #: TP4-1

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OK ~~Dut~~ UVM	PID	0	11/10/93 0800
Victoreen		OK ~~40~~ <1	11/10/93 0830
		wr-93 units	

DATE START: 11/10/93
DATE FINISH: 11/10/93
INSPECTOR: DMK
CONTRACTOR: UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
				topsoil	several inches of topsoil Pit is pretty uniform	
1					clay loam	
2				uniform clay clay-loam	no odd color no foreign material	
3	<1 0/~~50~~ OK	TP4-1 11/10/93 0850	3 feet		lt brown dry clay, loam few rocks	Photo # 10, 11 Pit located 3' to 6' up berm
4						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP4-1

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACE	TEST PIT #: TP 4-2

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0	11/10/93 0800
Victoreen 190		0	11/10/93 0830

DATE START: 11/8/93
DATE FINISH: 11/8/93
INSPECTOR: DMK
CONTRACTOR: UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
				Topsoil		
1						
				uniform clay clay loam		
2						
3	0/0	TP4-2 11/10/93 0910	3feet		lt brown-clay clay, clay-clay loam some rocks no foreign material	Photos 12 & 13 Pit located 3' to 5' up berm

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP4-2

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | TEST PIT #: TP4-3

PROJECT: SENECA 10 SWMU INVESTIGATION
LOCATION: SEAD 4 TEST PIT TRIPLET LOCATION

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 12/5/93
COMPLETION DATE: 12/5/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
6'	3'	4'	BACK HOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0eV	Ø	10:20 AM 12/5/93
LEL/O_2/H_2S			

COMMENTS: sample TP4-3.
SHALLOW OVERBURDEN SOILS
WELL DEFINED UNITS
1 ORGANIC 4 VOC - 40ML
1 INORGANIC 1 EXPLOSIVE
1 METALS
TOTAL SAMPLES: [8]

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
					TOPSOIL, ROOT SYSTEMS HIGH ORGANIC CONTENT	~6"
1					LIGHT BROWN SILTY SAND FINE GRAINED <200 SIEVE SIZE W/ SOME CLAY - GLACIAL TILL	7"
2					DARK TO MEDIUM (OLIVE) GREY UNIT Defining GLACIAL TILL PHASING INTO WEATHERED SHALE LAYER [WELL-DEFINED SHALE UNIT	18"
3 4					CONSISTENT SHALE UNIT - EXCAVATION TO BACKHOE Refusal *NO INTRUSIVE PRESENCE	17-18"
5					↓ SHALE CONTINUATION	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP4-3

TEST PIT REPORT

TIME 10:00 AM

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP4-4

PROJECT: SENECA 10 SWMU INVESTIGATIONS
LOCATION: SEAD 4 TEST PIT TRIPLET LOCATION

JOB NUMBER: 720477-000
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 12/5/93
COMPLETION DATE: 12/5/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
[redacted]	[redacted]		
6.5'	3'	4'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	12/5/93
LEL/O2/H2S		—	12/5/93

COMMENTS:
SHALLOW OVERBURDEN SOILS
WELL DEFINED UNITS
1 ORGANICS - 500 ml
1 INORGANICS - 500 ml
4 VOC - 40 ml
1 EXPLOSIVE - 40 ml
1 METALS - 40 ml
TOTAL SAMPLES: 8

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
	Ø BGD				TOPSOIL, ROOT SYSTEMS HIGH ORGANIC content	7"
1	Ø BGD				LIGHT BROWN SILTY SAND FINE with SOME CLAY - TILL <200 SIEVE SIZE	7"
2	Ø BGD	FOUR BOWLS AT SIDES OF THE PIT ~2 SAMPLE TP4-4	~2'		DARK-GREY → OLIVE GREY SOILS/TILL which phase INTO WEATHERED SHALE LAYER [WELL-DEFINED SHALE UNIT]	18"
3 4	Ø BGD				CONSISTENT SHALE UNIT - LARGE PIECES EXCAVATION TO BACKHOE REFUSAL (NO INTRUSIVE PRESENCE NOTED)	ALL NATURAL WELL SORTED SHALE
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP4-4

TEST PIT REPORT

TIME 9:40 AM

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP4-5

PROJECT: SENECA 10 SWMU INVESTIGATIONS
LOCATION: SEAD 4 TEST PIT TRIPLET LOCATION

JOB NUMBER: 720477-0100
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES
START DATE: 12/5/93
COMPLETION DATE: 12/5/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
6'	3'	3.5-4'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 EV	Ø	12/5/93
LEL/O2/H2S		—	12/5/93

COMMENTS:
SHALLOW OVERBURDEN SOILS
WELL DEFINED UNITS

TOTAL SAMPLES: [8]

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
	Ø				TOPSOIL, ROOT SYSTEMS	6"
1	Ø				LIGHT BROWN SILTY SAND FINE W/ SOME CLAY - TILL < 200 SIEVE SIZE	8"
2	Ø	Sample TP4-5 (FOUR) BOWLS AT SIDES OF THE PIT	~2'		DARKER GREY SOILS UNIT DEFINING TILL PHASING INTO WEATHERED SHALE LAYER [WELL-DEFINED SHALE UNIT]	16"
3	Ø				CONSISTENT SHALE UNIT - EXCAVATION TO BACKHOE REFUSAL NO INTRUSIVE PRESENCE NOTED	ALL NATURAL WELL SORTED
4					BACKHOE REFUSAL SHALE CONTINUATION ↓	
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP4-5

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP4-6

PROJECT: SENECA 10 SWMU INVESTIGATION
LOCATION: SEAD 4 CLAY PIPE TRACE

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: JES/V&B
START DATE: 12/5/93
COMPLETION DATE: 12/6/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
48'	3'	6'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.Ø	Ø	12/5/93 13:00
LEL/O2/H2S	—	—	

COMMENTS: EXCAVATED PERPENDICULAR TO 6" CLAY PIPE DIRECTION BUT WERE UNABLE TO LOCATE INTERSECTION

Sample: TP4-6

TOTAL SAMPLES [8]

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1	Ø				TOPSOIL	12"
	Ø				DARK GREY CLAYEY SAND WITH SOME INTERBEDDED SHALE CLASTS	11"
2	Ø				SMALL REGION OF HEMATITIC SOIL MEDIUM-FINE	7"
3 4	Ø				WEATHERED SHALE UNIT W/ DARK GREY TILL	18"
5	Ø				MORE COMPETENT SHALE UNIT	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP4-6

TEST PIT REPORT

TIME 17:30

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TPA-7

PROJECT: SEAD 10 SWMU INVESTIGATION
LOCATION: SEAD 4 CLAY PIPE TRACE

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: NIC
CONTRACTOR: ES/UXB
START DATE: 12/5/93
COMPLETION DATE: 12/5/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

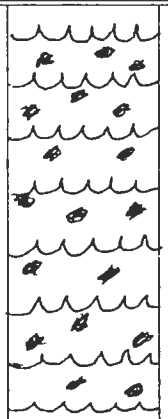
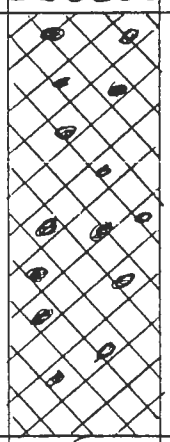
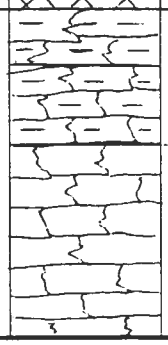
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
6'	3'	5'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 ev	Ø	12/5/93
LEL/O_2/H_2S		—	12/5/93

COMMENTS:
~ 200' NE of the POND
T.P. WAS EXCAVATED UNTIL
CLAY PIPE WAS DISCOVERED
Sample: TP4-7

TOTAL SAMPLES: [8]

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1	Ø BGD				TOPSOIL W/ ROOT SYSTEM HIGH ORGANIC CONTENT EVIDENCE of INTRUSIVE LIGHT BROWN – GREY SOILS SMALL SHALE FRAGMENTS	HIGH GROUND – ALMOST BERM-LIKE 22"
2 3	Ø BGD	2 BOWL SAMPLES			DARK GREY SILTY CLAYEY SAND WITH SOME SHALE CLASTS SURROUNDING SHALE UNIT WAS HIGHER THAN AREA of PIPE! This IMPLIED that the pipe WAS TRENCHED into the OVERBURDEN SHALE UNIT! →	21"
4 5	Ø BGD	2 BOWL SAMPLES			FINE LIGHT GREY SILTY SAND LAYER! ← → 6"	SAMPLED CLAY PIPE

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

TIME 12:15 AM

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP4-8

PROJECT: SEAD 10 SWMU INVESTIGATION
LOCATION: SEAD 4

JOB NUMBER: 720477-0100
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 12/5/93
COMPLETION DATE: 12/5/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

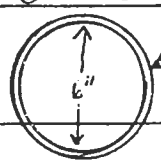
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
6'	3'	3'	BACK HOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 EV	Ø	12/5/93
LEL/O2/H2S		—	12/5/93

COMMENTS: ~75' NE of the POND T.P. WAS EXCAVATED UNTIL CLAY PIPE WAS DISCOVERED

TOTAL SAMPLES: 8

SCALE (FT)	VOC/RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1	Ø BGD.				TOPSOIL WITH SMALL SHALE FRAGMENTS INTERBEDDED EVIDENCE OF INTRUSION LIGHT BROWN — GREY SOILS	12"
2	Ø				DRK. GREY SILTY CLAYEY SAND WITH SOME CLASTS OF SHALE	14"
					SHALE FRAGMENTS LARGE 4-6" PIECES	3"
3	Ø BGD.	4 BOWLS TAKEN AROUND PIPE	~32" Sample TP4-8			CLAY PIPE 7"
4					WATER FLOWING THROUGH TO THE POND	
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT:	TEST PIT #: TP26-1

PROJECT: SENECA 7 SWMU INVESTIGATION
LOCATION: SEAD 26 TEST PIT #1

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 11/18/93
COMPLETION DATE: 11/18/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

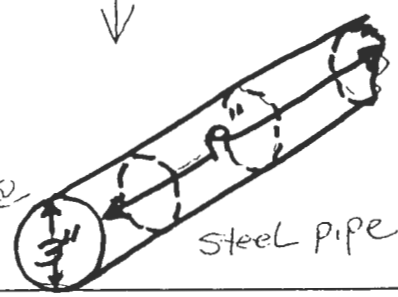
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
13'	4'6"	7'4"	BACK HOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	3:05 PM
LEL/O2/H2S		—	3:05 PM
RADIATION		—	3:05 AM

COMMENTS:
SEAD 26 - Level B INVESTIGATION
SUNNY

TOTAL SAMPLES: [8] 2 sets

SCALE (FT)	VOC./RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
		TP26-1-1	0-8"		TOPSOIL w/ SHALE FRAGMENTS	
1					LARGE SHALE LAYERS w/ medium COARSE SAND Brown-Grey (FILL) therein	
2						
3						
4					4'6" @ 	* Geophysical Anomaly see photo
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP26-1

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD 7 SWMU	TEST PIT #: TP26-1

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
AS ABOVE ON PAGE 1			

DATE START: 11/18/93
DATE FINISH: 11/18/93
INSPECTOR: JWC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
					FILL AS ABOVE	
6						
		TP26-1-2	6'6"-7'		TILL @ 6'6"-7' w/ some SHALE FRAGMENTS	PROBABLE TILL
7						
					7'4" Bottom OF TEST PIT	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP26-1

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP26-2

PROJECT: SENECA 7 SWMU INVESTIGATION
LOCATION: SEAD 26 TEST PIT #2

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: J N/C
CONTRACTOR: ES/UXB
START DATE: 11/18/93
COMPLETION DATE: 11/18/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
11'	2.5'-3'	5.4'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	1:30 PM
LEL/O_2/H_2S		—	1:30 PM
RADIATION		—	1:30 PM

COMMENTS:
SEAD 26 - LEVEL B INVESTIGATION
WEATHER WAS SUNNY

TOTAL SAMPLES: [8] 2 sets

SCALE (FT)	VOC./ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
		TP26-2-1	0-8"		TOPSOIL w/ SMALL FRACTURED SHALE LAYERS SOME SILT-FILL MATERIAL	
1 2 3					MEDIUM - SHALE PIECES - LAYERS (2"-5") WITH MED. - COARSE SILTY SAND BROWN-GREY FILL WOOD PIECES	4x COMPLYSICAL SEPARATES
4 5					SHALE LAYERS (1"-3") FILL (AS ABOVE)	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP 26-2

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
AS ABOVE ON PAGE 1			

DATE START: 11/18/93
DATE FINISH: 11/18/93
INSPECTOR: GWC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
					FILL ↓	
5		TP26-22	5'6"		TILL (COMPOSITION) ▽ WATER TABLE	PROBABLE TILL ZONE
6						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP26-2

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP26-3

PROJECT: SENECA ARMY DEPOT (7 SWMU Investigation)
LOCATION: SEAD 26 LOCATION #3

JOB NUMBER: 720A77-01000
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 11/17/93
COMPLETION DATE: 11/17/93
CHECKED BY:
DATE CHECKED:

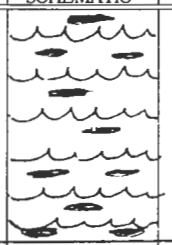
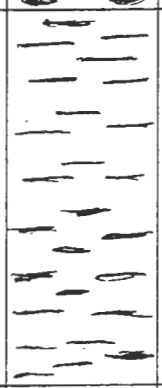
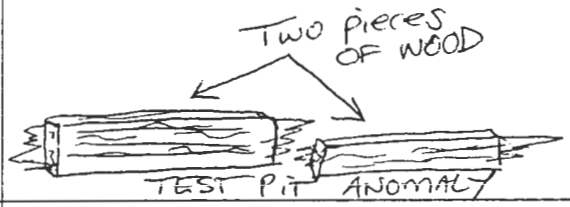
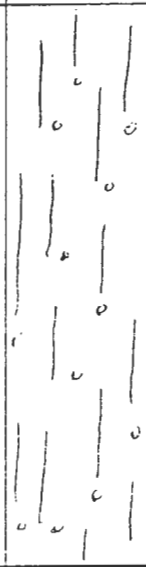
TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
17'	2.5-3'	7'2"	BACK HOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580 B	10.0 ev	0	11/17/93 10:30
LEL/O_2/H_2S			11/17/93 10:30

COMMENTS:
SEAD 26 - Level B investigation
VOA (1) 40 mL
METAL (1) 40 mL
SVOC, TPH, Pest./PCBs Herbicides (1) 500 mL
CN, NITRATE (1) 500 mL
TOTAL SAMPLES: 8 (2 sets)

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1		TP24-3-1 ↑ wasn't Designated	0-12"		TOPSOIL W/INTERBEDDED SHALE FRAGMENTS - Some FINE SILTY SAND	
2					SMALL FRAGMENTED SHALE UNITS w/some FILL MATERIAL 	★ ANOMALY IN question
3 4 5					SHALE FRAGMENTS w/ FILL MED. Grey → BROWN SILT	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD 7 SWMU | TEST PIT #: TP26-3

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
←		AS	PREVIOUS →

DATE START: 11/17/93
DATE FINISH: 11/17/93
INSPECTOR: JWC
CONTRACTOR: ES/VXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
6					AS ABOVE	
7		TP26-3-2 NOT DESIGNATED	6'6"-7'2"		BOTTOM OF TEST PIT	
8						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD 7 SWMU Investigation	TEST PIT #: 26-4

PROJECT: SEAD 26 SENECA ARMY DEPOT
LOCATION: SEAD 26 LOCATION 4

JOB NUMBER: 720477-0100
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 11/17/93
COMPLETION DATE: 11/17/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
11'	3.5'	5'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	11/17/93 9:30AM
LEL/O_2/H_2S		—	11/17/93 9:30AM

COMMENTS:
SEAD 26 - LEVEL B investigation
WEATHER WAS POOR (RAINING)

TOTAL SAMPLES: [8] (2 sets)

SCALE (FT)	VOC./RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
		TP26-4-1 (WASN'T DESIGN)	0-8"		VERY THIN TOPSOIL ZONE WITH BROKEN SHALE FRAGMENTS	
1					WELL SORTED LARGE 9"-20" SECTIONS of SHALE (USED APPARENTLY AS FILL NATIVE)	
2						
3						
4		TP26-4-2 (WASN'T DESIGNED)	~46"		ANOMALY WAS NONmetallic AND probably the DENSE SHALE COMPONENT BOTTOM OF PIT 4'6"-5'	
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP26-4

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP26-5

PROJECT: SENECA 7 SWMU INVESTIGATION
LOCATION: SEAD 26 TEST PIT #5

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JNC
CONTRACTOR: ES/UXB
START DATE: 11/17/93
COMPLETION DATE: 11/17/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
11'	2.5'	6'8"	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	2:30 PM
LEL/O2/H2S		—	2:30 PM
RADIATION		NOT Functioning (Possibly from weather)	

COMMENTS:
SEAD 26 - LeveLB investigation
Weather was poor (raining)

TOTAL SAMPLES: [8] 2sets

SCALE (FT)	VOC/RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1		TP26-5-1	0-13"		TOPSOIL UNIFORM W/ SMALL LAYERS OF SHALE BUT NOT A SIGNIFICANT QUANTITY	
2					BROWN - GREY MEDIUM - COARSE SAND W/ SOME SILT	
3					FILL UNIT	
4						
5					— BRICK LAYER BEGINS —	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | TEST PIT #: TP26-5

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
AS ABOVE ON PAGE 1			

DATE START: 11/17/93
DATE FINISH: 11/17/93
INSPECTOR: JWC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
6					RED-ORANGE BRICKS IN A LARGE CLUSTER 5'-6"	☆ probable Geophysical ANOMALY
		TP26-52	5'10"-6'6"		BOTTOM OF TEST PIT	6'8"
7						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP26-6

PROJECT: SENECA 7 SWMU INVESTIGATION
LOCATION: SEAD 26 TEST PIT #6

JOB NUMBER: 720477-0100
EST. GROUND ELEV.
INSPECTOR: JNC
CONTRACTOR: ES/VXB
START DATE: 11/18/93
COMPLETION DATE: 11/18/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

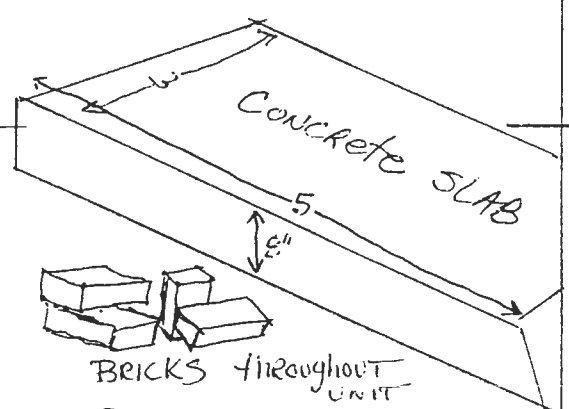
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
10'	4'	6'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0eV	Ø	9:15 AM
			9:15 AM

COMMENTS:
SEAD 26 - LEVEL B INVESTIGATION
WEATHER WAS OVERCAST PARTLY SUNNY

TOTAL SAMPLES: [8] 2 sets

SCALE (FT)	VOC./ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1		TP26-6-1	0-8"		ORGANIC TOPSOIL w/ MED-COARSE SAND SOME SILT	
2						
3		4"x6"	piece of steel		FILL MATERIAL CONSISTING OF MED-COARSE GREY SAND / SOME SILT WET-MOIST	Determination: Geophysical Anomaly probably construction debris from building
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | TEST PIT #: TP26-6

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.6eV	Ø	9:15 AM
LEL/O2/H2S			9:15 AM

DATE START: 11/18/93
DATE FINISH: 11/18/93
INSPECTOR: JNC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
					5'6" ▽ WATER TABLE	ROUGH Determination
6		TP26-6-2	5'-6'		FILL MATERIAL (INTERBEDDED SHALE FRAGMENTS) WET SAMPLE BOTTOM OF TEST PIT	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP26-7

PROJECT: SENECA 7 SWMU INVESTIGATION
LOCATION:

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JWL
CONTRACTOR: ES/NXB
START DATE: 11/8/93
COMPLETION DATE: 11/8/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

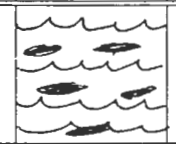
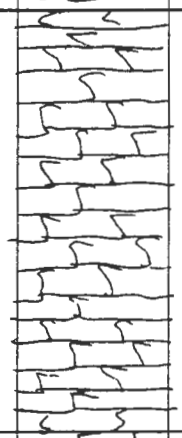
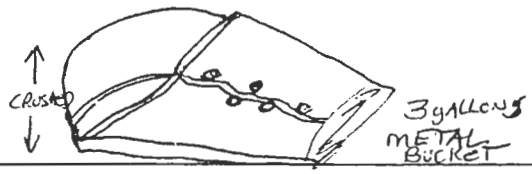
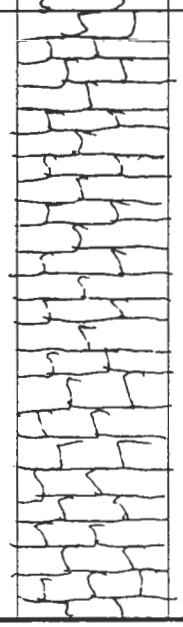
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
10'	2.5-3'	6'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0ev	Ø	11:05 AM
LEL/O_2/H_2S		—	11:05 AM
RAD		✓	11:05 AM

COMMENTS:
SEAD 26 - Level B investigation
WEATHER WAS SUNNY

TOTAL SAMPLES: [8] 2 sets

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
		TP26-7-1	0-8"		TOPSOIL WITH SHALE FRAGMENTS	
1 2					LARGE SHALE UNITS WITH SOME FILL MATERIAL i.e. GREY MED-COARSE SAND W/SOME SILT 	★ Geophysical anomaly
3 4 5					SHALE UNIT CONTINUES WITH FILL MATERIAL CONSISTING OF MED — COARSE SAND GREY W/SOME SILT	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS TEST PIT #:

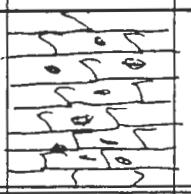
TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SENECA 7 SWMU | TEST PIT #: TP26-7

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
AS	ABOVE	ON	PAGE 1

DATE START: 11/18/93
DATE FINISH: 11/18/93
INSPECTOR: JWC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
					5'4" ▽ WATER TABLE	
		TP26-7-2	5'6"-6'		SHALE LAYERS with MED-FINE SILTY SAND	
6					BOTTOM OF TEST PIT	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT:	TEST PIT #: TP26-8

PROJECT: SENECA 7 SWMU
LOCATION: SEAD 26 TEST #8

JOB NUMBER: 720477-010C
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 11/19/93
COMPLETION DATE: 11/19/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
14'	2.5'	6'7"	BACK HOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0ev	Ø	9:00 AM
LEL/O2/H2S		—	9:00 AM
RADIATION		—	9:00 AM

COMMENTS:
SEAD 26 - LEVEL B INVESTIGATION
- OVERCAST -

TOTAL SAMPLES: [8] 2 sets

SCALE (FT)	VOC./RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
		TP26-8-1	0-8"		TOPSOIL W/ SHALE FRAGMENTS	
1					SPARSE BRICKS	FILL
					ROOT SYSTEM OF NEARBY <10ft COTTONWOOD >18" IN DIAMETER	
2					ENCOUNTERED RUBBER MATERIAL LIKE A BOOT OR BALL	
3						
4					METAL PIECES	See photo
5					MED - BROWN - GREY SILTY SAND	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | TEST PIT #: TP26-8

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
AS ABOVE ON PAGE 1			

DATE START: 11/19/93
DATE FINISH: 11/19/93
INSPECTOR: JNC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
6		TP26-8Z	6'-6.6"		TILL @ 5'5"	Probable TILL
					BOTTOM OF TEST PIT 6'7"	
7						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACE	TEST PIT #: TP45-1

PROJECT: SEAD 10 SWMU ESE
LOCATION: SWMU 45 - Berm

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: D. Kelmar
CONTRACTOR: UXB
START DATE: 11/8
COMPLETION DATE:
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
5'	3'	3'	Backhoe / no shoring

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0	
Victoreen 190		0	

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1						
2						
3	0/0	TP45-1 TP45-1MRP TP45-11 11/3/93 1300 1315 (TP45-11)	3 ft		Dry - silt-clay medium brown some ordnance	Photo #2
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-1

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACE	TEST PIT #: TP45-2

PROJECT: SEAD 10 SWMU ESE
LOCATION: SWMU 45 - Berm

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: DMV
CONTRACTOR: GXB
START DATE: 11/3/93
COMPLETION DATE: 11/3/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
5'	3'	~~OK~~ 3'	Backhoe / no shoring

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0	
Vicking KG		0	

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1						
2						
3	0/0	TP45-2 11/3/93 1330	3 ft		Dark-brown - clayey few small rocks some ordnance	Photo #1
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-2

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACE	TEST PIT #: TP45-3

PROJECT: SEAD 10 SWMU ESE
LOCATION: SWMU 45 - Berm

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: DMK
CONTRACTOR: UXB
START DATE: 11/8/93
COMPLETION DATE: 11/8/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
5'	3'	3'	Backhoe / no shoring

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0	
Victoreen 190		0	

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1						
2						
3	0/0	TP45-3 1415 11/8/93	3 ft		Dark brown - clay moist, clumpy some ordnance	Phab #3
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-3

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: USACOE | TEST PIT #: TP 45-4

MONITORING DATA — Berm Excavation

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0	0900 11/9/93
Victoreen 190		0	0900 11/9/93

DATE START: 11/9/93
DATE FINISH: 11/9/93
INSPECTOR: OMK
CONTRACTOR: UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1						
2						
3	0/0	TP45-4 11/9/93 1245	3 feet		Brown clay and silt East side is moist and very clayey. Rest is dry. No foreign material	Photo # 8 Rinsate sample
4						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-4

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	TEST PIT #: TP45-5

MONITORING DATA — Berm Excavation

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0	0900 11/9/93
Vicloreen 196		0	0900 11/9/93

DATE START: 11/9/93
DATE FINISH: 11/9/93
INSPECTOR: DMK
CONTRACTOR: UXB

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1						
2						
3						
4	0/0	TP45-5 11/9/93 1315	3feet		Dark brown dry clay, silt no foreign material	Photo #9

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-5

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: US ACOE	TEST PIT #: TP45-1

PROJECT: Seneca Army Depot
LOCATION: Sead-45

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: SS/LG
CONTRACTOR:
START DATE: 11/15/93
COMPLETION DATE: 11/15/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
6'	1.5'	3.5'	

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM	PID	0 ppm	[illegible]
DUST [illegible]		0	200 [illegible]
[illegible]		5 mR/h	[illegible]

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC./RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
	0		0-1'		Cover Mat 20mm orange [illegible] ash (black) CLAY sand silt rad = 8 dust = .04	
1	0		1-2'		[illegible] CLAY [illegible] black [illegible] rad = 6 dust .04	
2	0				more same rad = 10 dust = .04	Picture #10
	0				burn pit [illegible] 2.5' natural material [illegible] very stiff CLAY	
3						
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ADE	TEST PIT #: TP 45-2

PROJECT: 10 Solvent
LOCATION: SEAD 45

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: [illegible]
CONTRACTOR:
START DATE: 11/15/93
COMPLETION DATE: 11/15/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
4'	2'	1.5'	

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM		0 ppm	1530 11/15/93
MiniRAM		.04	"
Radiation		10 cpm	"

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1	0		0-1'		filled w/water CLAY silt sand 2 pipes at 6" steel pipes w/ electrical wires shale fragments, some ash .04 = dust 10 = radiation	picture #9
2					1.5' = end of test pit decision line (not reached) (MR: look @ pictures)	
3						
4						
5					[illegible] dust + radiation meters	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	TEST PIT #: TP 45-3

PROJECT: 10 SMWU
LOCATION: SEAD 45

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: SB/LB
CONTRACTOR:
START DATE: 11/15/93
COMPLETION DATE: 11/15/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
20'	2'	2.5'	

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM		0	[illegible]
Miniram		.04	1300 11/15/93
Ratemeter		10	1300 11/15/93

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (PURMEISTER METHODOLOGY)	REMARKS
1	0		0-1		CLAY, shale fragments metal fragments wire steel Rod very disturbed	
2	0		1-2		Very Stiff CLAY rich glacial till, shale fragments CONDUIT AT 1.4' * rounded cobbles still disturbed VERY COMPACT 10 uR/hr radiation .04 = dust end of pit	photo # 8
3					1" pipe - galvanized * NOTES Ran E to W trench 160N 28SE → 300E based on [illegible]	
4					[illegible] = Pipe broad [illegible] 11-3	
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: 45-3

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	TEST PIT #: 45-4

PROJECT: 10 SMWU
LOCATION: SEAD 45

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: SS/LB
CONTRACTOR:
START DATE:
COMPLETION DATE:
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
N/M		0 ppm	1445 11/15/93
[illegible]		.01%	1445 11/15/93
[illegible]		11uR/h	1445 [illegible]

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
	0				[illegible] CLAY w/ [illegible] shale fragments, [illegible] metal fragments	
1	0				location (pit) 230N 280-300E E→W; [illegible] HARD CLAY shale [illegible]	
2					Sample [illegible] 2-3'	
				pipe*	dust = .02 Rad = 18 uR/h	
3					*230N pipe [illegible] 225E 2.5' down	picture #6
					pipe runs N→S	
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	TEST PIT #: 45-5

PROJECT: 10 SMWU
LOCATION: Site 10 45

JOB NUMBER:
EST. GROUND ELEV.
INSPECTOR: SS/LB
CONTRACTOR:
START DATE: 11/15/93
COMPLETION DATE: 11/15/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
8'	1.5'	1.5'	

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM		0	1420 11/15/93
MINIRAM		.04	
RADIATION		13	

COMMENTS:

TOTAL SAMPLES:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
	0				CLAY 1" pipe at 6" goes E to W pit 230 E loca 140 → 148 N metal fragments wood fragments wire radiation = 12 dust = .04	photo #7
1						
2						
3						
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: 45-5

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP45-6

PROJECT: SENECA 7 SWMU Investigation
LOCATION:

JOB NUMBER: 720477-0100
EST. GROUND ELEV.
INSPECTOR: gmc
CONTRACTOR: ES/UXB
START DATE: 11/16/93
COMPLETION DATE: 11/16/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

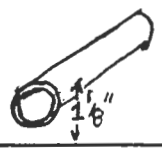
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
5'	2.5'	2'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 ppm	Ø	9:30 am

COMMENTS:

TOTAL SAMPLES: NO SAMPLES

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1					FILL UNIT FRAGMENTS OF SHRAPNAL AND AMMO ROUNDS LIGHT BROWN-GREY TILL 	★ Geophysical Anomaly
2						
3					BOTTOM OF TEST PIT	
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-6

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP45-7

PROJECT: SEAD 7 SWMU INVESTIGATION
LOCATION: SEAD 45 TEST PIT #7

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JMC
CONTRACTOR: ES/UXB
START DATE: 11/16/93
COMPLETION DATE: 11/16/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
10'	2.5-3'	7'7"	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	10:50 AM
RADIATION		—	10:50 AM

COMMENTS: ANOMALY - METAL DEBRIS

TOTAL SAMPLES: NO SAMPLES

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1					TOPSOIL Light Brown - Grey SILTY SAND	
2					COMPACT SOIL LAYER	
3					FILL UNIT	
4					WOOD FRAGMENTS METAL Debris, Ammo ROUNDS, fuses	See photo Geophysical ANOMALY
5					TILL	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-7

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | TEST PIT #: TP45-7

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
AS ABOVE ON PAGE 1			

DATE START: 11/16/93
DATE FINISH: 11/16/93
INSPECTOR: JNC
CONTRACTOR: ES/UXB

SCALE (FT)	VOC./ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
6					TILL	
7					NICE CLAY UNIT BOTTOM OF TEST PIT 7'7"	See PHOTO
8						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-7

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SENECA ARMY DEPOT	TEST PIT #: TP45-8

PROJECT: SENECA 10 SWMU INVESTIGATION
LOCATION: SEAD 45

JOB NUMBER: 720477-0100
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/UXB
START DATE: 11/16/94
COMPLETION DATE: 11/16/94
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
9'	3'	7'8"	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	10.0 eV	Ø	9:05 Am
RADIation		3.43 mR/hr	9:05 Am

COMMENTS:
PURPOSE TO IDENTIFY GEOPHYSICAL ANOMALIES

TOTAL SAMPLES: NO SAMPLES

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1					TOPSOIL (DISTURBED) FILL MATERIAL MED. BROWN-GREY SILT	
2 3 4 5					GOOD INDICATION OF A BURN PIT WOOD PALLETTE DEBRIS metal Debris NAILS WIRE-TUBING	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-8

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: SENECA ARMY DEPOT | TEST PIT #: TP45-8

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE

DATE START: 11/16/94
DATE FINISH: 11/16/94

INSPECTOR: JWC
CONTRACTOR: JES/WRB

SCALE (FT)	VOC./ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
					metal Debris @ 5'6"	
6						
					GROUNDWATER @ 7'	
7						
					BOTTOM OF PIT 7'8"	
8						
9						
10						
11						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-8

TEST PIT REPORT

ENGINEERING-SCIENCE, INC. | CLIENT: ACE | TEST PIT #: 45-8

MONITORING DATA 105mm SEAD 45

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE	
OVM		0	1600	11/15/93
MINIRAM		0	1600	11/15/93
Radiation		10	1600	11/15/93

DATE START: 11/15/93
DATE FINISH: 11/15/93
INSPECTOR: SS/LB
CONTRACTOR:

SCALE (FT)	VOC/ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
	0				wire pieces of wood CLAY shale fragments disturbed most	dust 0 Radiation 5
1	0				more compact than above [illegible] clay with scattered wood, metal, rock fragments metal - rusted	
2	0				as above 1-2'	
					debris to 4-4'	
3	0					
4					end of pit	dust .02
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #:

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP45-9

PROJECT: SENECA 7 SWMU
LOCATION: SEAD 45 TEST PIT #9

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: JWC
CONTRACTOR: ES/JXB
START DATE: 11/16/93
COMPLETION DATE: 11/16/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

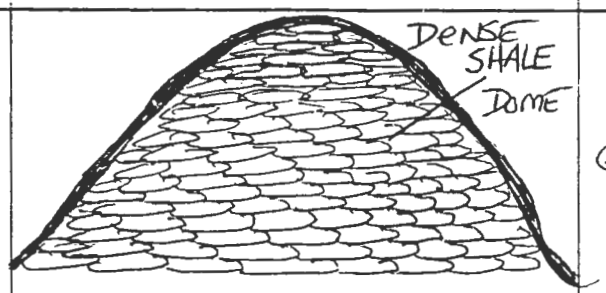
LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
8'	2.5'	5'	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580 B	10.0 eV	Ø	9:45 AM

COMMENTS: ANOMALY - SHALE PILE (DOME)

TOTAL SAMPLES: NO SAMPLES

SCALE (FT)	VOC/RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1					LIGHT GREY SILTY SAND with CLAYED (TILL) COMPOSITION SMALL SHALE FRAGMENTS Possible FILL UNIT	See photo
2						
3						☆ Geophysical Anomaly
4						
5					Bottom OF PIT @ 5'	

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-9

TEST PIT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	TEST PIT #: TP45-10

PROJECT: SENECA 7 SWMU
LOCATION: SEAD 45 TEST PIT #10

JOB NUMBER: 720477-01000
EST. GROUND ELEV.
INSPECTOR: DWC
CONTRACTOR: ES/UXB
START DATE: 11/16/93
COMPLETION DATE: 11/16/93
CHECKED BY:
DATE CHECKED:

TEST PIT DATA

LENGTH	WIDTH	DEPTH	EXCAVATION/SHORING METHOD
3'	2.5'	16"	BACKHOE

MONITORING DATA

INSTRUMENT	DETECTOR	BACKGROUND	TIME/DATE
OVM-580B	100ev	Ø	10:30 AM

COMMENTS:
ASSUMED 3" pipe WAS ANOMALY, terminated PIT

TOTAL SAMPLES: NO SAMPLES

SCALE (FT)	VOC./ RAD.	SAMPLE NUMBER	SAMPLE DEPTH RANGE	STRATA SCHEMATIC	DESCRIPTION OF MATERIALS (BURMEISTER METHODOLOGY)	REMARKS
1					TOPSOIL – Disturbed Light BROWN-GREY med.-COARSE SAND	
					 BOTTOM OF PIT	See photo ★ Geophysical ANOMALY
2						
3						
4						
5						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS

TEST PIT #: TP45-10

APPENDIX C

MONITORING WELL INSTALLATION DIAGRAMS

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW4-1

PROJECT: 10 SWMU
LOCATION: SEAD 4

PROJECT NO: 720477
INSPECTOR: ES/RB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Scott
DRILLING COMPLETED: 12-6-93
BORING DEPTH: 10.5'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 4

POW DEPTH: 10.5'
INSTALLATION STARTED: 12-6-93
INSTALLATION COMPLETED: 12-6-93
SURFACE COMPLETION DATE: 12-6-93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 698.392

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 5.4' TYPE: PVC 40 DIAMETER: 2" LENGTH: 4' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 9.4' POW: 10.5'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 2.5'

SEAL: TBS: 2.5' TYPE: bentonite pellets LENGTH: 2'

SAND PACK: TSP: 4.5' #1 5.0' #1 TYPE: #3 & #1 LENGTH: 6.0'

SURFACE COLLAR:
TYPE: RADIUS: 2' x 2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

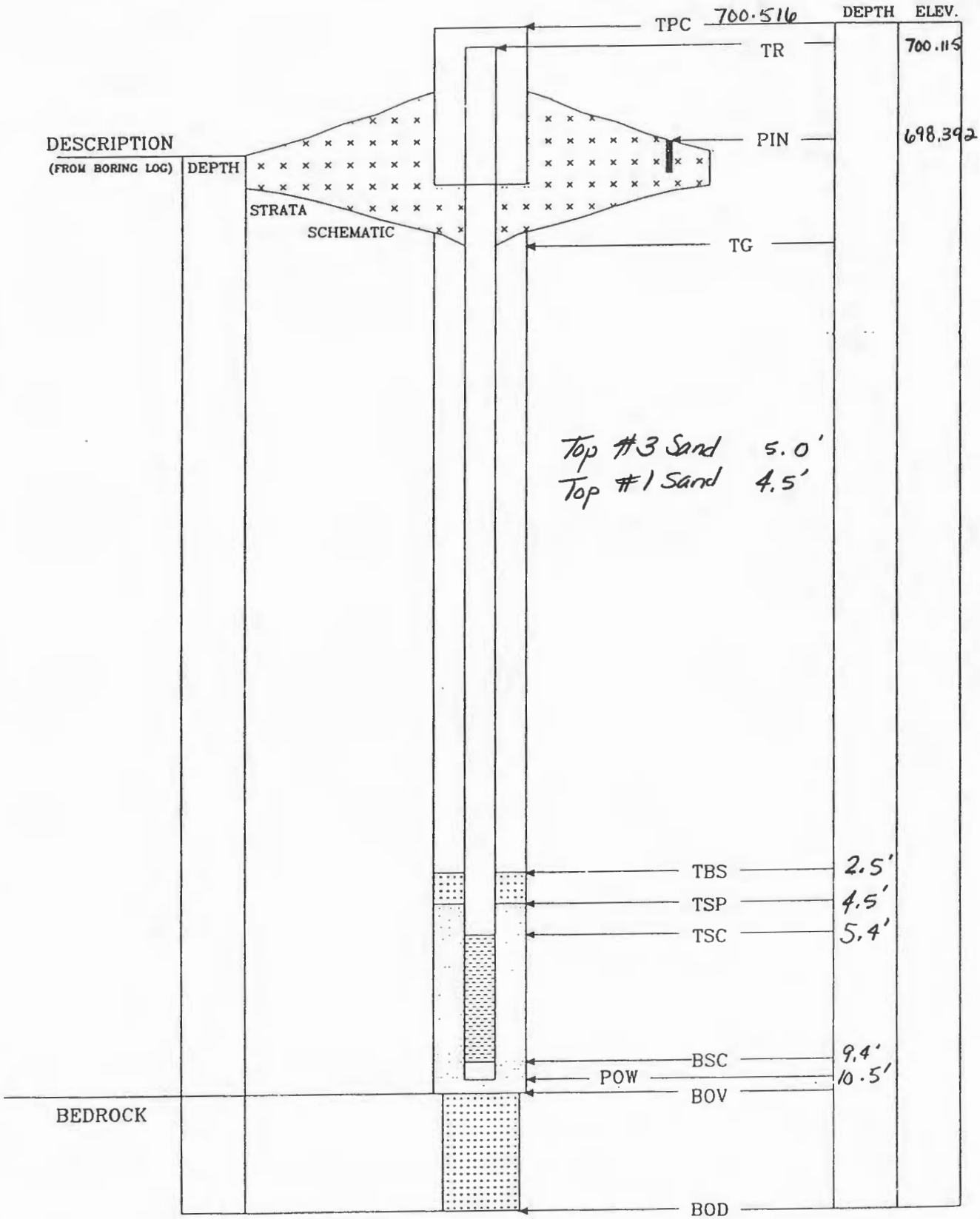
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW4-1

DATE: 12-6-93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW4-2

PROJECT: 10 SWMU
LOCATION: SEAD 4

PROJECT NO: 720477
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Bob
DRILLING COMPLETED: 11/10/93
BORING DEPTH: 4.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 4

POW DEPTH: 4.0'
INSTALLATION STARTED: 11/10/93
INSTALLATION COMPLETED: 11/10/93
SURFACE COMPLETION DATE: 11/10/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 699.448

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 22 TYPE: PVC-40 DIAMETER: 1 1/2" LENGTH: 1.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 3.2' POW: 4.0'

GROUT:
TG: ground TYPE: Cem.-bentonite LENGTH:

SEAL: TBS: 1.0' TYPE: bentonite pellets LENGTH: 0.5'

SAND PACK: TSP: 1.5'-#1 1.8'-#3 TYPE: #3 + #1 LENGTH: 2.5'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2' x 2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

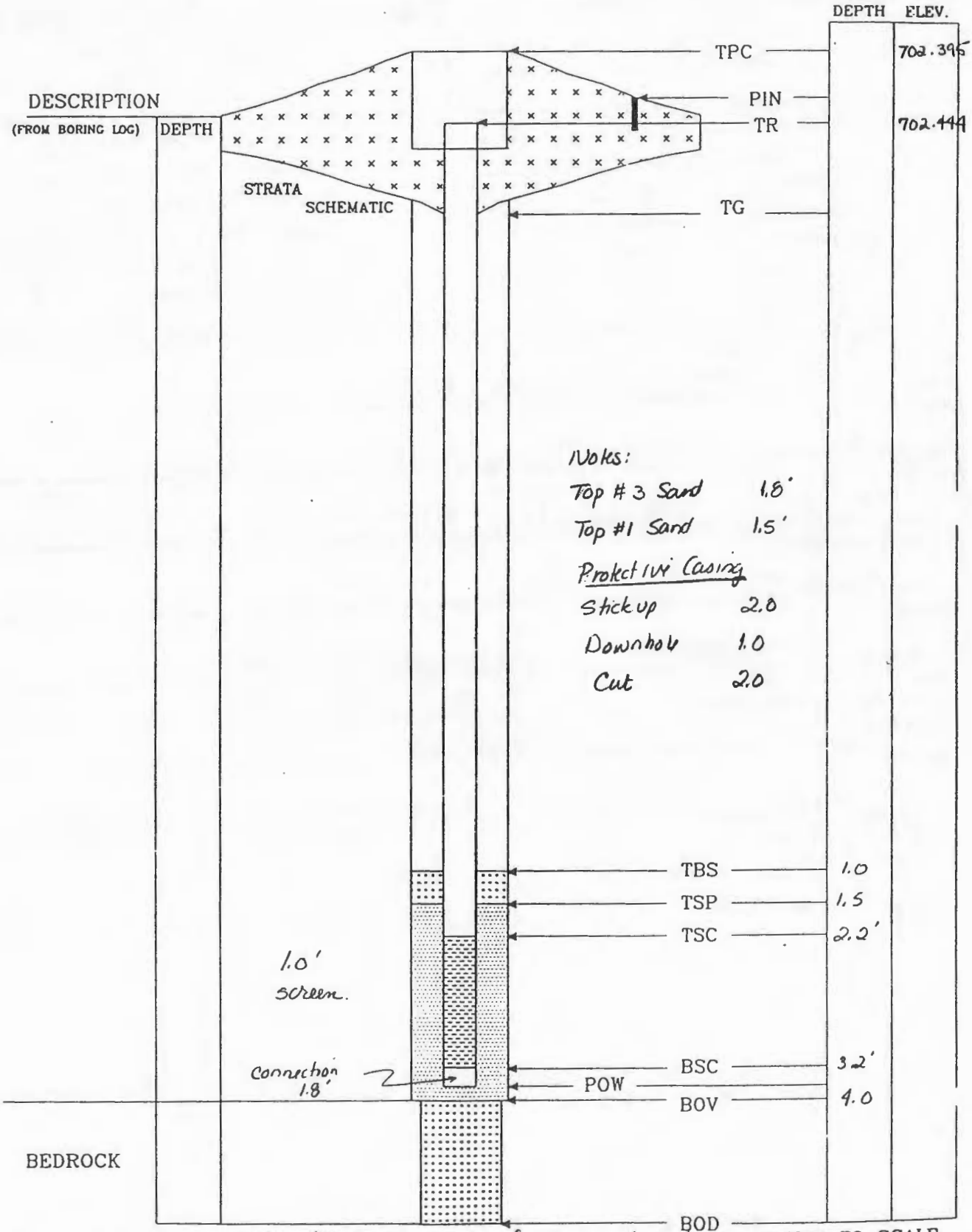
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	WELL #: MW4-2

DATE 11/10/93



Note: All depths meas. from ground surface

* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW4-3

PROJECT: 10 SWMU
LOCATION: SEAD 4

PROJECT NO: 720477
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Bob
DRILLING COMPLETED: 11/10/93
BORING DEPTH: 9.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 4

POW DEPTH: 9.0'
INSTALLATION STARTED: 11/10/93
INSTALLATION COMPLETED: 11/10/93
SURFACE COMPLETION DATE: 11/10/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 697.669

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.9' TYPE: PVC-40 DIAMETER: 1 1/2" LENGTH: 4.0' SLOT SIZE: .01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 7.9' POW: 9.0'

GROUT:
TG: Ground TYPE: Cem-bentonite LENGTH: 1.4'

SEAL: TBS: 1.4 TYPE: bentonite pellets LENGTH: 1.0'

SAND PACK: TSP: #3 - 2.9' #1 - 2.9' TYPE: #3 + #1 LENGTH: 6.6'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

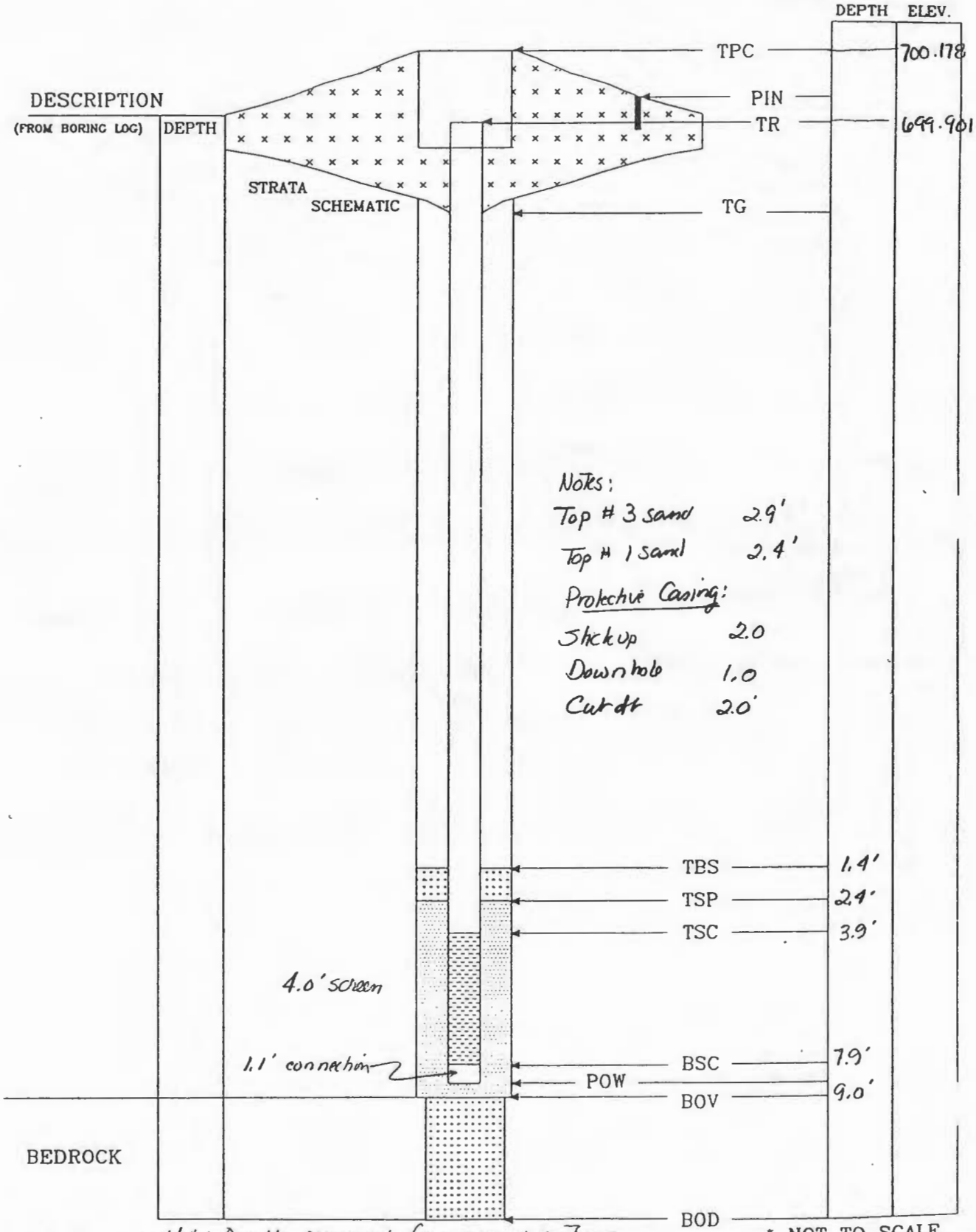
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	WELL #: MW4-3

DATE: 11/10/93



Note: Depths measured from ground surface

* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW4-4

PROJECT: 10 SWMU
LOCATION: SEAD 4
PROJECT NO: 720477
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Scott
DRILLING COMPLETED: 12-5-93
BORING DEPTH: 10'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 4
POW DEPTH: 10.0'
INSTALLATION STARTED: 12-5-93
INSTALLATION COMPLETED: 12-5-93
SURFACE COMPLETION DATE: 12-5-93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 678.217

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 4.9' TYPE: PVC-40 DIAMETER: 2" LENGTH: 4.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 8.9' POW: 10.0'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 2.5'

SEAL: TBS: 2.5' TYPE: bentonite pellets LENGTH: 1.5'

SAND PACK: TSP: 4.0'-#1 4.5'-#3 TYPE: #3 and #1 LENGTH: 6.0'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

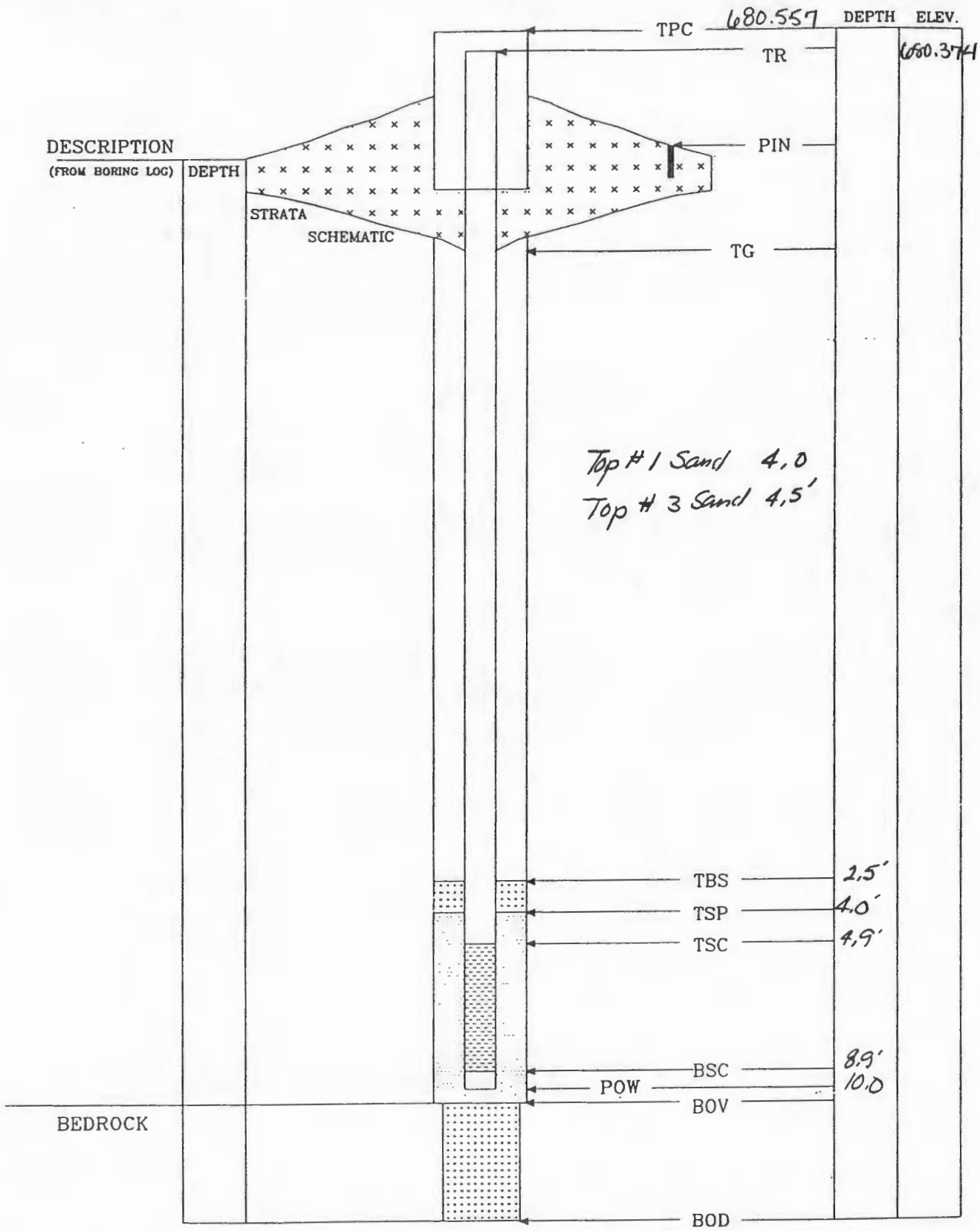
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW 4-4

DATE: 12-5-93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW4-5

PROJECT: 10 SWMU
LOCATION: SEAD 4
PROJECT NO: 720477
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 12-5-93
BORING DEPTH: 6.0
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 4
POW DEPTH: 6.0'
INSTALLATION STARTED: 12/5/93
INSTALLATION COMPLETED: 12/5/93
SURFACE COMPLETION DATE: 12/5/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 699.182

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC - 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.1 TYPE: PVC - 40 DIAMETER: 2" LENGTH: 20' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 5.1 POW: 6.0'

GROUT:
TG: Ground TYPE: Cement - bentonite LENGTH: 1.3'

SEAL: TBS: 1.3 TYPE: bentonite pellets LENGTH: .7'

SAND PACK: TSP: 2' #1 2.5' - #3 TYPE: #3 and #1 LENGTH: 4.0'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2' x 2' THICKNESS CENTER: 1 THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

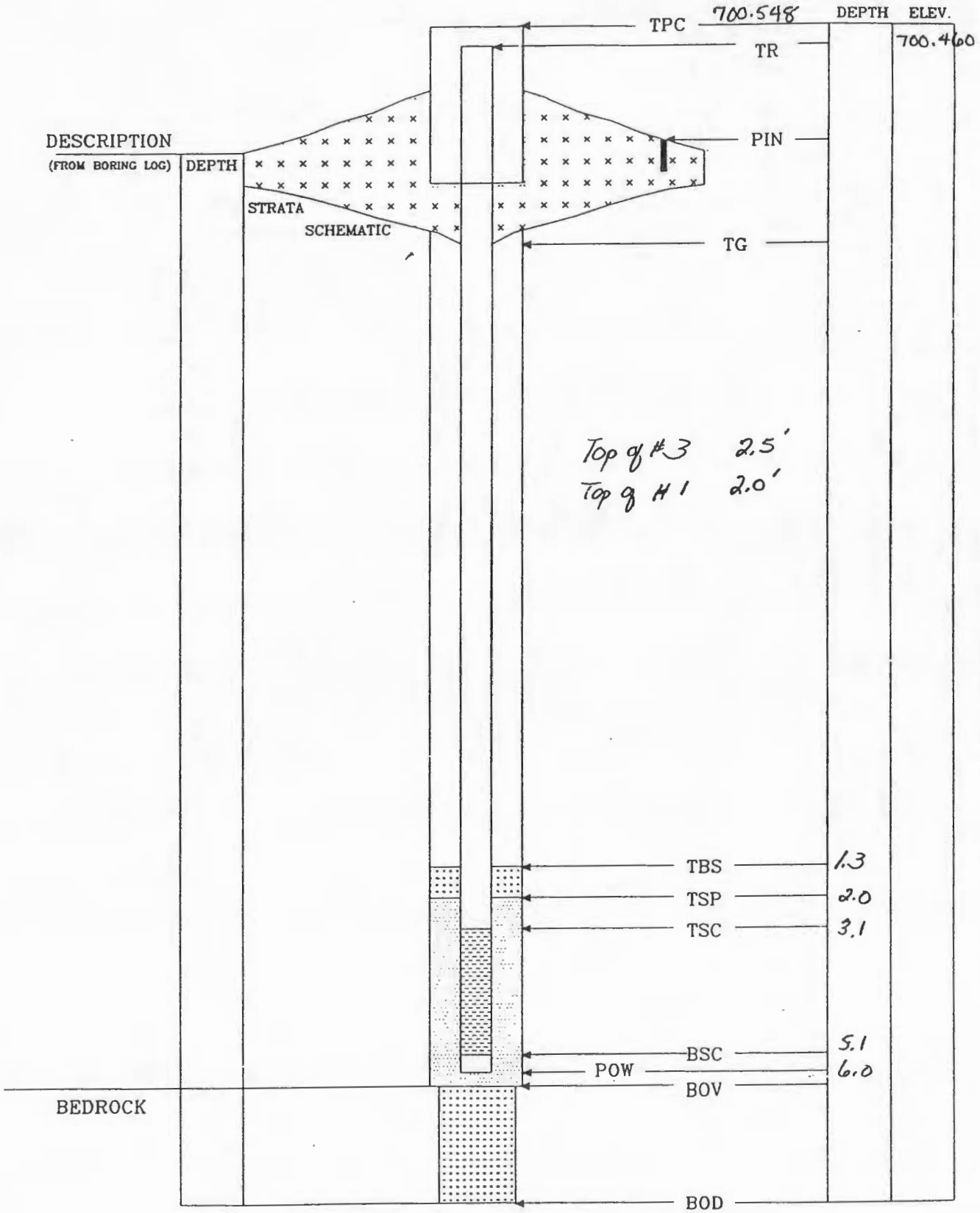
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW4-5

DATE: 12-5-93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW16-1

PROJECT: 10 SWMU ESI
LOCATION: SEAD-16

PROJECT NO: 720477
INSPECTOR: Pfm
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Alan
DRILLING COMPLETED: 10/25/93
BORING DEPTH: 6.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2" w/4 1/4" Augers
ASSOCIATED SWMU/AOC: SEAD-16

POW DEPTH:
INSTALLATION STARTED: 10/25/93
INSTALLATION COMPLETED: 10/26/93
SURFACE COMPLETION DATE: 10/26/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 733.735

PROTECTIVE SURFACE CASING:
DIAMETER: 4x4" steel LENGTH: 5'

RISER: and surface
TR: stick-up TYPE: PVC-40 DIAMETER: 2" LENGTH: 5'

SCREEN: (total length 2.4')
TSC: 3.3' TYPE: PVC-40 DIAMETER: 2" LENGTH: 2' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 5.3' POW: 6.0' (0.5' point)

GROUT:
TG: NA TYPE: NA LENGTH: NA

SEAL: TBS: 0.0' TYPE: Bentonite pellets LENGTH: 2.2'

SAND PACK: TSP: 2.8' 2.2' f-sand TYPE: Berkley #3 Silica LENGTH: 3.2' / 3.8' f-sand
" #1 Silica

SURFACE COLLAR:
TYPE: Cement RADIUS: 2x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: — DEPTH 2: — DEPTH 3: — DEPTH 4: —

COMMENTS:
→ Not enough room for grout in well - will bentonite to the surface
→ bailed water from boring prior to installing well

* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

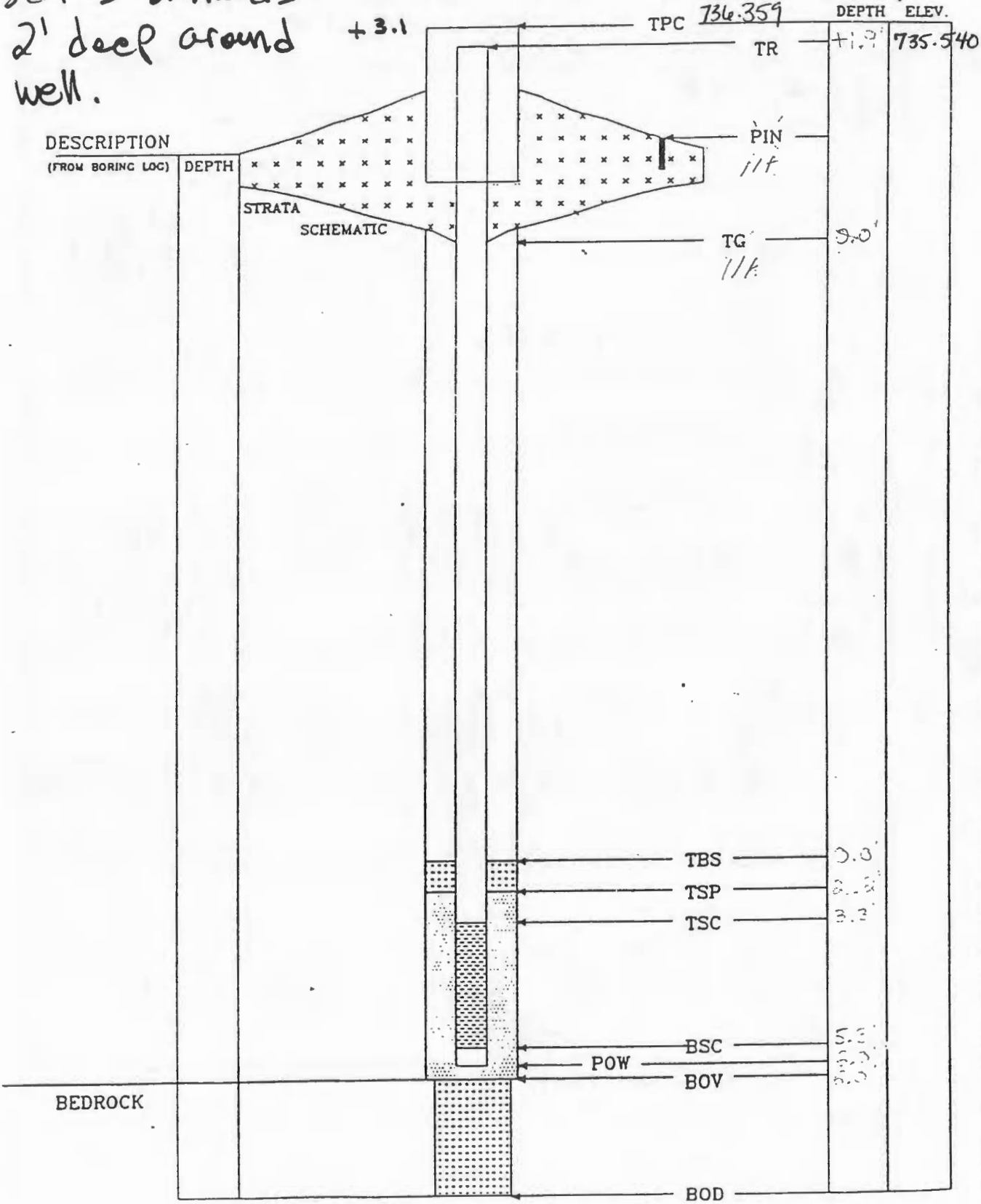
SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW16-1

DATE: 10/26/93

→ Set 3 bollards 2' deep around well.



• NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW16-2

PROJECT: 10 SWMU EET
LOCATION: SEAD-6

PROJECT NO: 720477
INSPECTOR: [illegible]
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Alan
DRILLING COMPLETED: 10/26/93
BORING DEPTH: 4.1'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: SEAD-6

POW DEPTH:
INSTALLATION STARTED: 10/26/93
INSTALLATION COMPLETED: 10/26/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 732.829

PROTECTIVE SURFACE CASING:
DIAMETER: 4x4' LENGTH: 5' (with out it down)

RISER:
TR: +1.5 TYPE: PVC-40 DIAMETER: 2" LENGTH: 2.7'

SCREEN: (total length 2.4') SLOT
TSC: 1.4 TYPE: PVC-40 DIAMETER: 2" LENGTH: 2' SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC-40 BSC: 3.4 POW: 4.1'

GROUT:
TG: NF TYPE: NF LENGTH: NF

SEAL: TBS: 0.0 TYPE: Bentonite pellets LENGTH: 2.9'

SAND PACK: TSP: 0.9' TYPE: Berkeley #3 & #1 LENGTH:

SURFACE COLLAR:
TYPE: Cement RADIUS: 2x2' THICKNESS CENTER: ~~6"~~ 0.5' THICKNESS EDGE: 0.5'

CENTRALIZER DEPTHS
DEPTH 1: — DEPTH 2: — DEPTH 3: — DEPTH 4: —

COMMENTS:
→ [illegible]

• ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

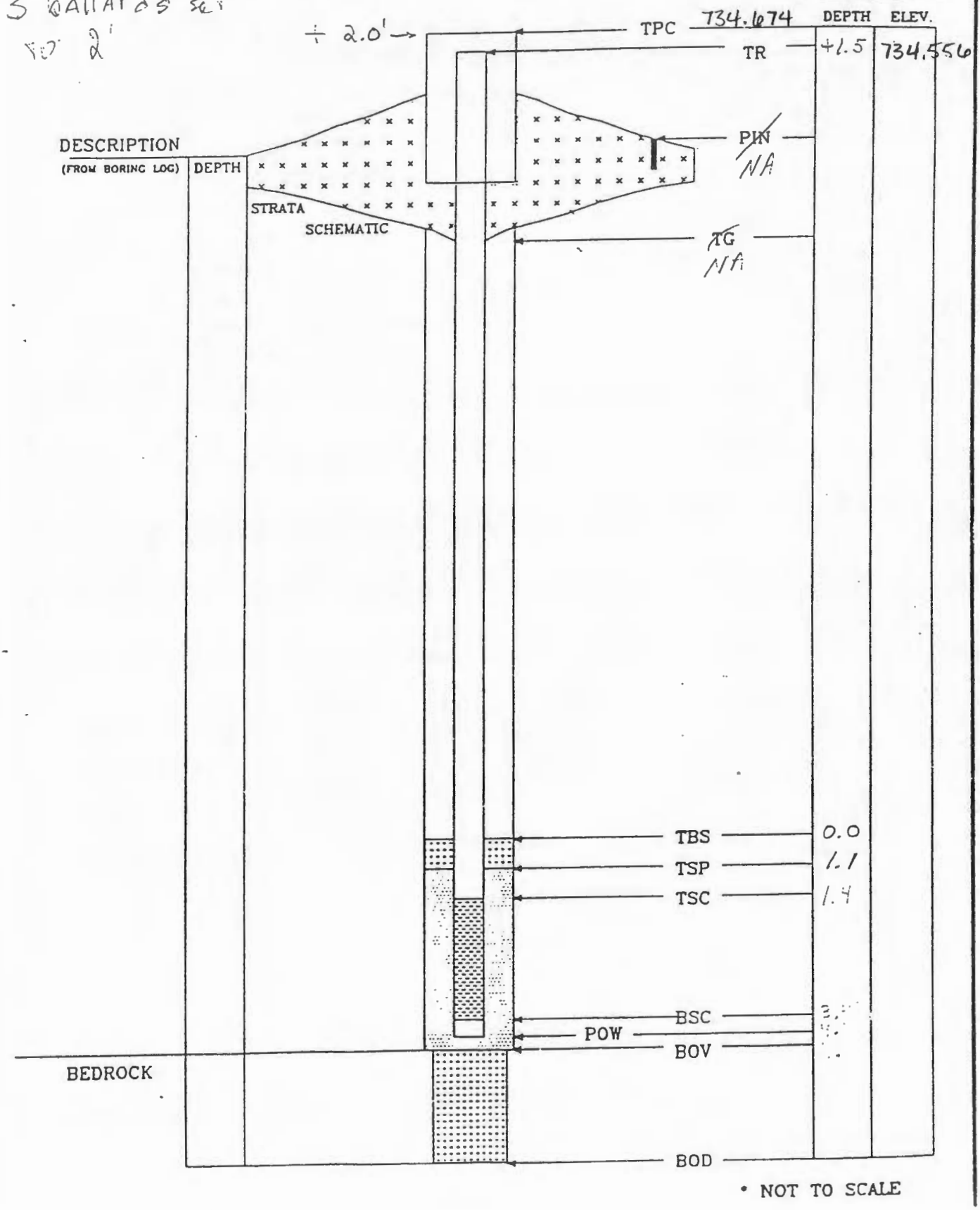
SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: M.W/S-2

DATE: 10/26/93

3 bollards set to 2'



OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW16-3

PROJECT: 10 SWMU
LOCATION: SEAD 16

PROJECT NO:
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Alan
DRILLING COMPLETED: 10/26/93
BORING DEPTH: 5.0
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: SEAD 16

POW DEPTH: 5.0'
INSTALLATION STARTED: 10/26/93
INSTALLATION COMPLETED: 10/26/93
SURFACE COMPLETION DATE: 11/2/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 733.049

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH: 4.0' total

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH: 2.5'

SCREEN:
TSC: TYPE: PVC-40 DIAMETER: 2" LENGTH: 2.0' SLOT SIZE: .01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 4.3' POW: 5.0'

GROUT:
TG: NA TYPE: LENGTH:

SEAL: TBS: 0.0' TYPE: Bentonite pellets LENGTH: 1.3'

SAND PACK: TSP: 2.0' #2, 1.8' #1 TYPE: #1 and #3 Silica LENGTH: 3.2'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE:

CENTRALIZER DEPTHS
DEPTH 1: — DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

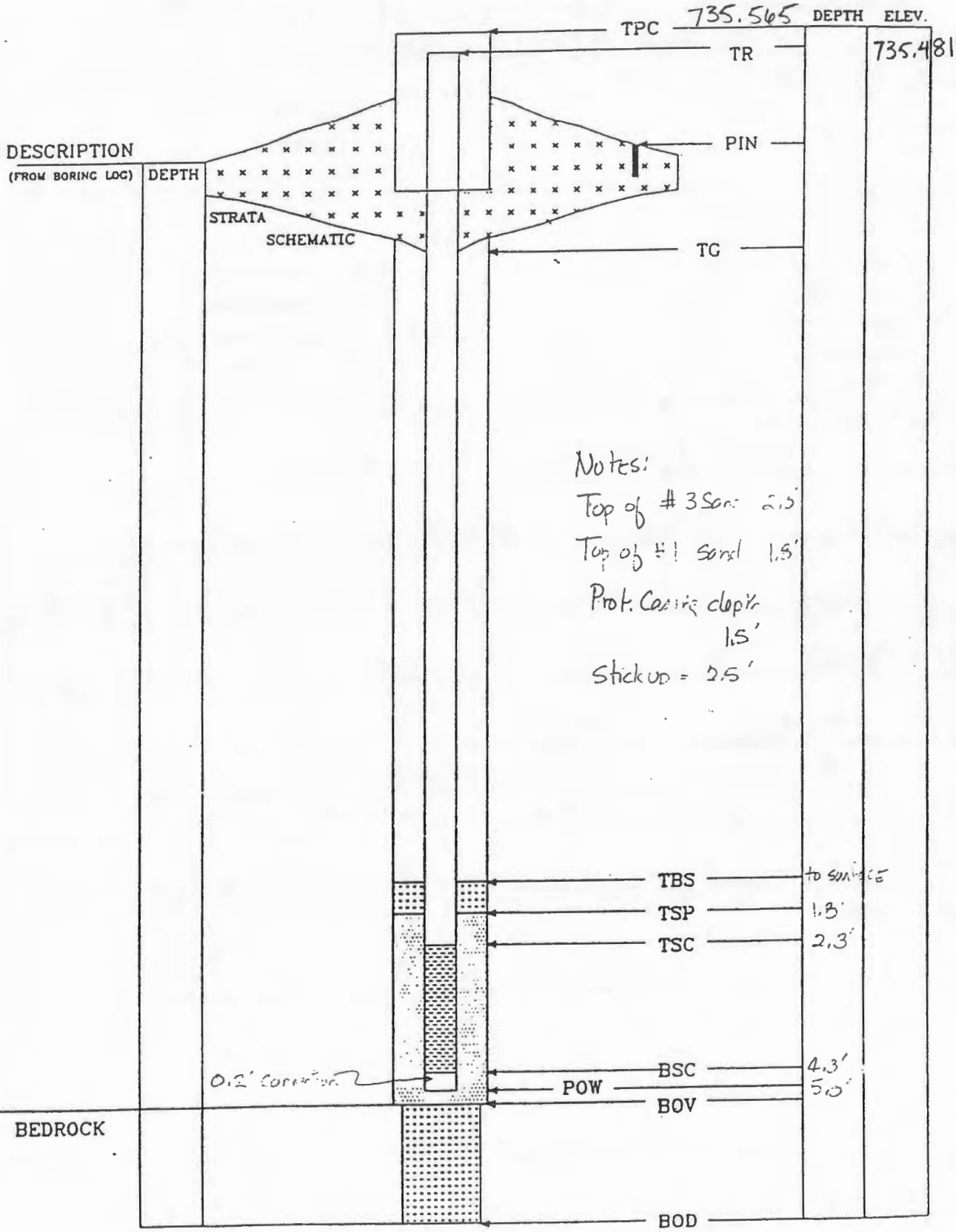
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW '16-3

DATE: _____



• NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW 17-1

PROJECT: 10 SMWU
LOCATION: SEAD 17

PROJECT NO: 720477-01001
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: EMPIRE
DRILLER: BOB/JOHN
DRILLING COMPLETED: 12-1-93
BORING DEPTH: 8.5'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8.5"
ASSOCIATED SWMU/AOC: SEAD 17

POW DEPTH: 8.5'
INSTALLATION STARTED: 12-1-93
INSTALLATION COMPLETED: 12-1-93
SURFACE COMPLETION DATE: 12-2-93
COMPLETION CONTRACTOR/CREW:
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 734.465

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" steel LENGTH:

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.4' TYPE: PVC 40 DIAMETER: 2" LENGTH: 4' SLOT SIZE: .01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 7.4' POW: 8.5'

GROUT:
TG: Ground TYPE: cement-bentonite LENGTH: 1.5'

SEAL: TBS: 1.5' TYPE: bentonite pellets LENGTH: 1.0

SAND PACK: TSP: 2.5' #1, 3.0' #3 TYPE: #3, #1 LENGTH: .4' #3, .5' #1

SURFACE COLLAR:
TYPE: cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

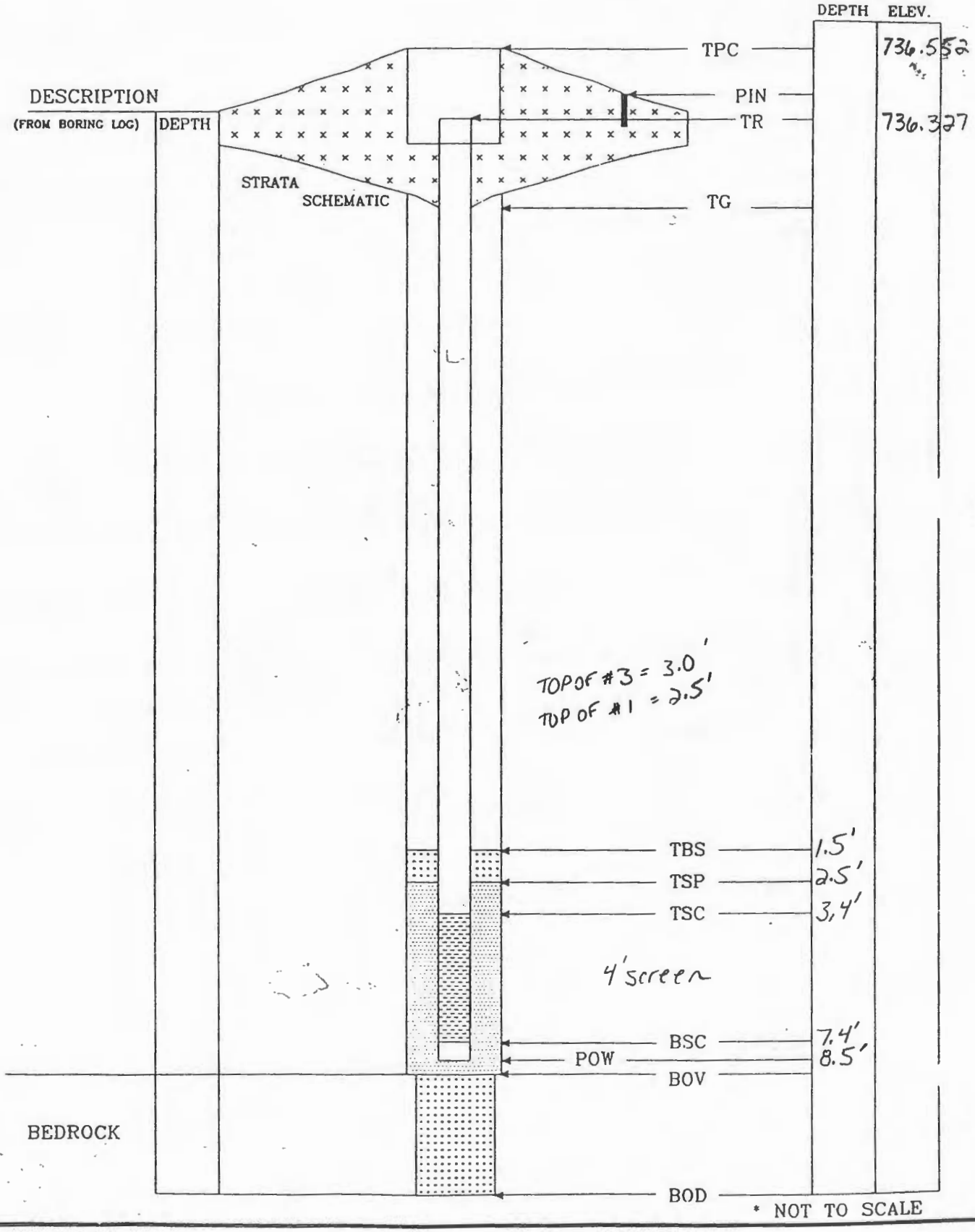
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ADE	WELL #: MW 17-1

DATE: 12-1-93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW17-2

PROJECT: 10 SWMU
LOCATION: SEAD 17

PROJECT NO: 720477-01001
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Alan
DRILLING COMPLETED: 11/2/93
BORING DEPTH: 6.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC:

POW DEPTH: 6.0'
INSTALLATION STARTED: 10/27/93
INSTALLATION COMPLETED: 11/2/93
SURFACE COMPLETION DATE: 11/2/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 731.649

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH: 4.3' total

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH: ~~2.5'~~

SCREEN:
TSC: 3.3' TYPE: PVC-40 DIAMETER: 1 1/2" LENGTH: 2.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 5.3' POW: 6.0' 0.5' point

GROUT:
TG: 0.0' TYPE: Cem.-bentonite LENGTH: 2.0'

SEAL: TBS: 2.0' TYPE: bentonite pellets LENGTH: 0.3'

SAND PACK: TSP: 2.3' TYPE: #3 and #1 LENGTH: 3.7'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: — DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

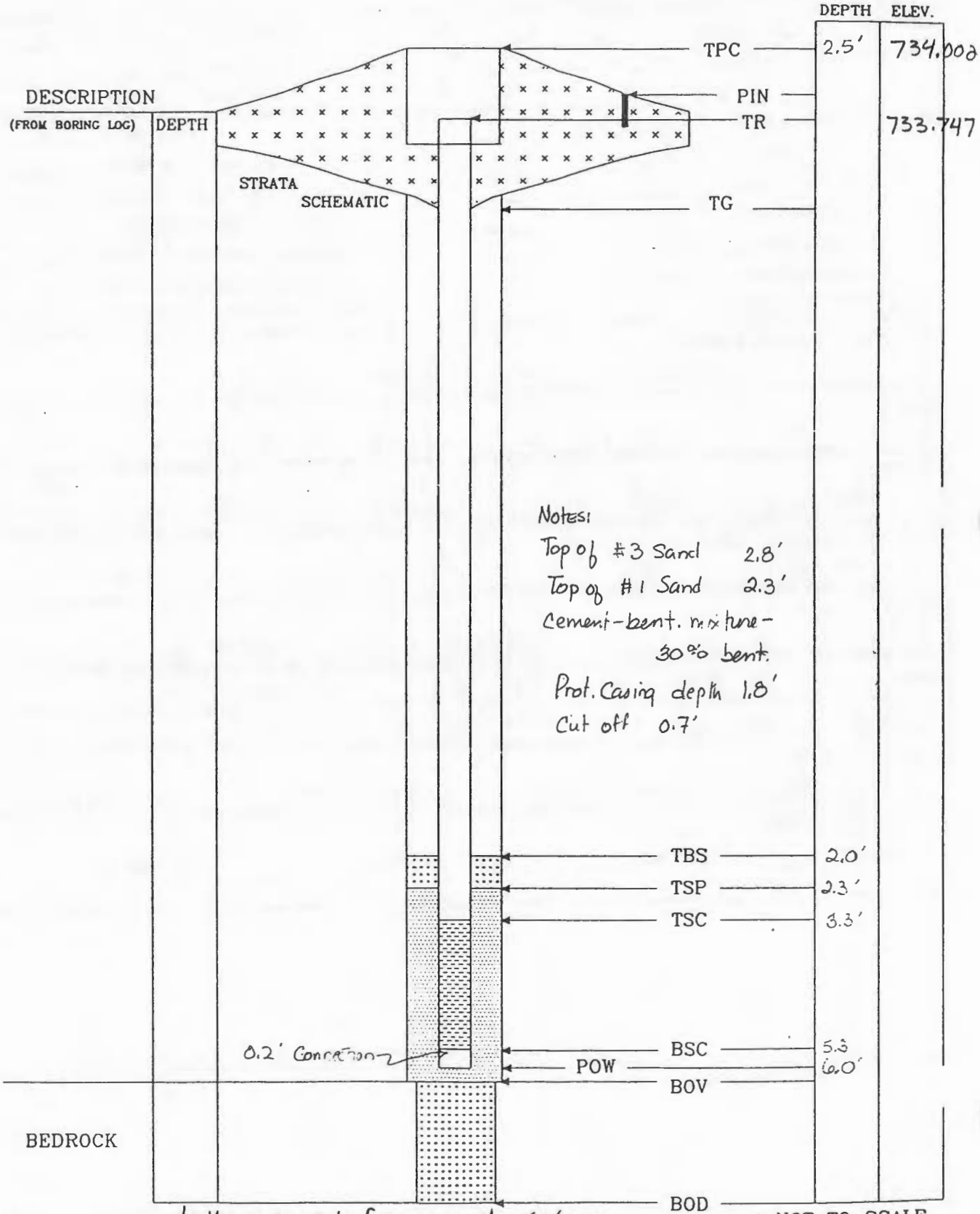
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	WELL #: MW17-2

DATE: _____



OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW17-3

PROJECT: 10 SWMU
LOCATION: SEAD 17

PROJECT NO: 720477-01001
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 11/30/93
BORING DEPTH: 6.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 17

POW DEPTH: 6.0'
INSTALLATION STARTED: 11/30/93
INSTALLATION COMPLETED: 11/30/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW:
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 730.188

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.1' TYPE: PVC-40 DIAMETER: 2" LENGTH: 2.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC-point BSC: 5.1' POW: 6.0'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.3'

SEAL: TBS: 1.3' TYPE: bentonite pellets LENGTH: 0.7'

SAND PACK: TSP: 2.0' #1 2.5' #3 TYPE: #3 & #1 LENGTH: 4.0'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2' x 2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

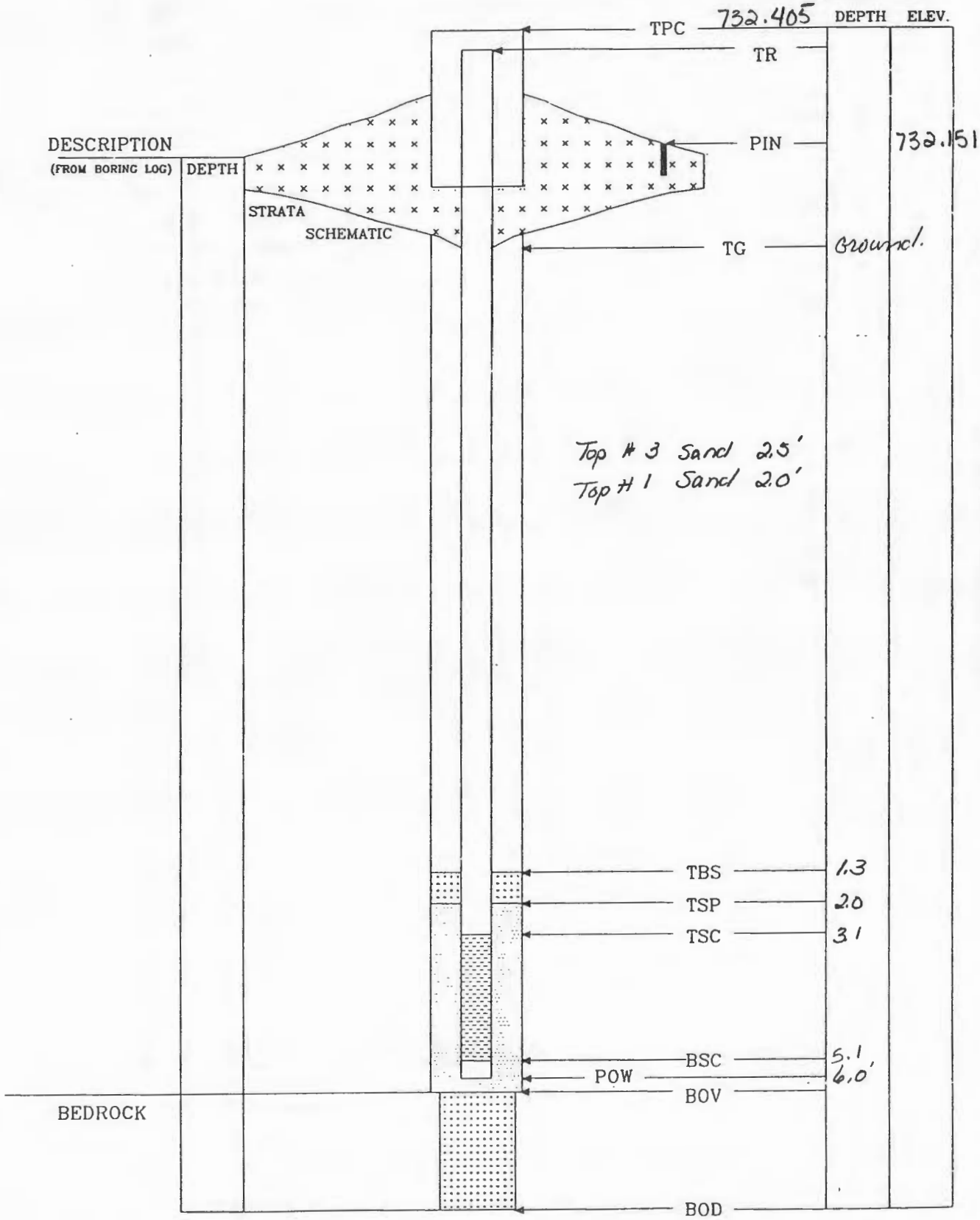
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	WELL #: MW-17-3

DATE: 11/30/93



Depths measured from ground.

* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW17-4

PROJECT: 10 SWMU
LOCATION: SEAD 17

PROJECT NO:
INSPECTOR:
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 12/1/93
BORING DEPTH: 6.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 17

POW DEPTH: 6.0'
INSTALLATION STARTED: 11/30/93
INSTALLATION COMPLETED: 12/1/93
SURFACE COMPLETION DATE: 12/2/93
COMPLETION CONTRACTOR/CREW:
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 732.453

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.1' TYPE: PVC-40 DIAMETER: 2" LENGTH: 2' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 5.1' POW: 6.0'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.3'

SEAL: TBS: 1.3' TYPE: bentonite pellets LENGTH: 0.7'

SAND PACK: TSP: 20' #1 2.5' #3 TYPE: #3 + #1 Silica LENGTH: 4.0'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS: Sand tremied

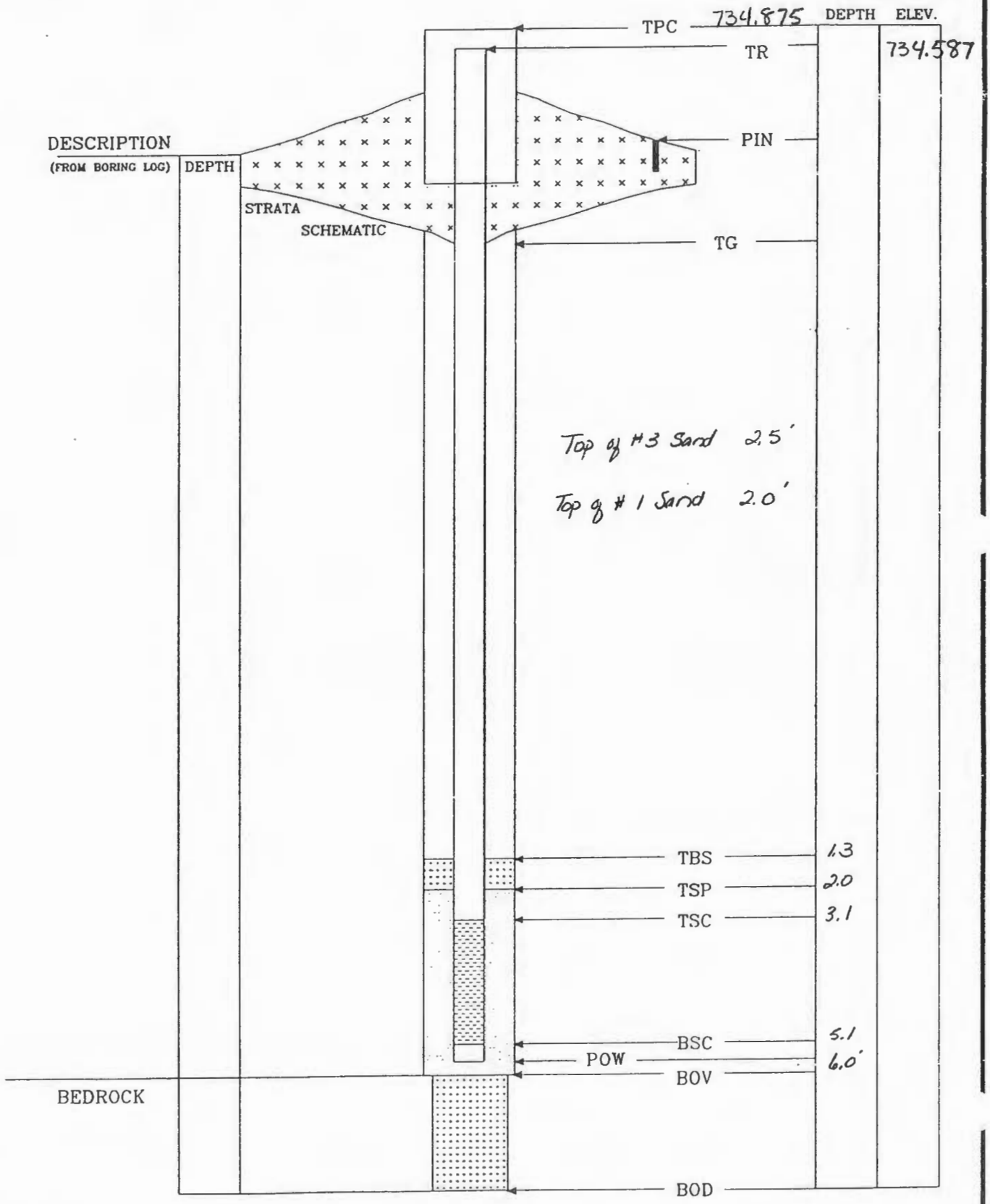
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW17-4

DATE: 12-1-93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW24-1

PROJECT: 10 SWMU
LOCATION: SEAD 24

PROJECT NO: SB24-5
INSPECTOR:
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Scott
DRILLING COMPLETED: 12-1-93
BORING DEPTH: 10.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 24

POW DEPTH: 10.0'
INSTALLATION STARTED: 12-1-93
INSTALLATION COMPLETED: 12-1-93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 635.374

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 4.9' TYPE: PVC-40 DIAMETER: 2" LENGTH: 4.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 8.9' POW: 10.0

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.5'

SEAL: TBS: 1.5' TYPE: bentonite pellets LENGTH: 1.9'

SAND PACK: TSP: 3.4' #1 3.9 #3 TYPE: #31 #1 LENGTH: 6.6'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

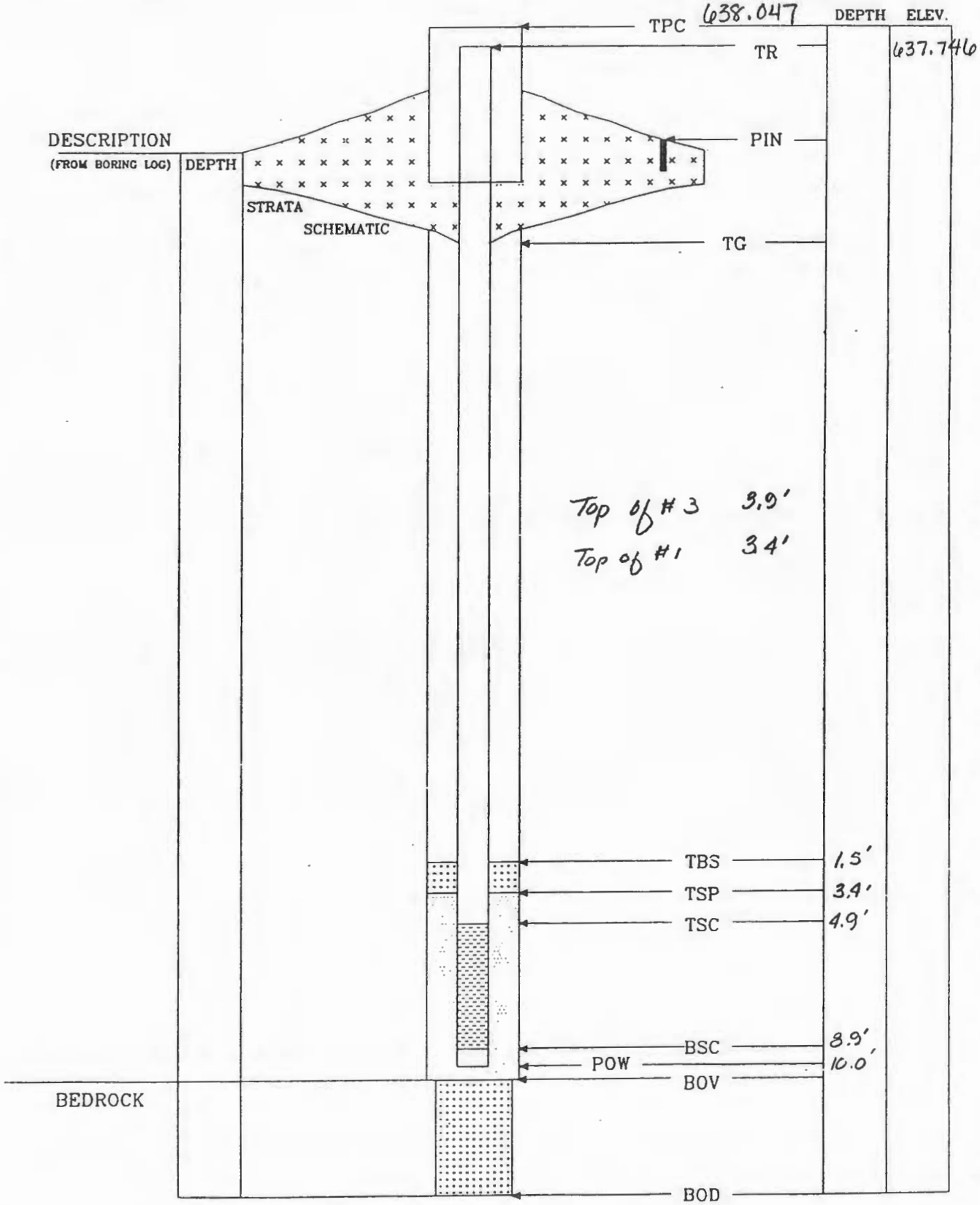
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT:	WELL #: MW24-1

DATE: 12-1-93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW 24-2

PROJECT: 10 SWMU
LOCATION: SEAD 24

PROJECT NO:
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: A1
DRILLING COMPLETED: 11/5/93
BORING DEPTH: 16.0'
DRILLING METHOD(S): ASA
BORING DIAMETER(S): 8"2"
ASSOCIATED SWMU/AOC: 24

POW DEPTH: 16.0
INSTALLATION STARTED: 11/5/93
INSTALLATION COMPLETED: 11/6/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 629.856

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH: 5.0' total

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 5.9' TYPE: PVC 40 DIAMETER: 1 1/2" LENGTH: 9.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 14.9' POW: 16.0

GROUT:
TG: Ground TYPE: Cem-bentonite LENGTH: 3.0'

SEAL: TBS: 3.0 TYPE: Bentonite pellets LENGTH: 1.4'

SAND PACK: TSP: 4.4 #1 4.9-#3 TYPE: #3 and #1 LENGTH: 11.6'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

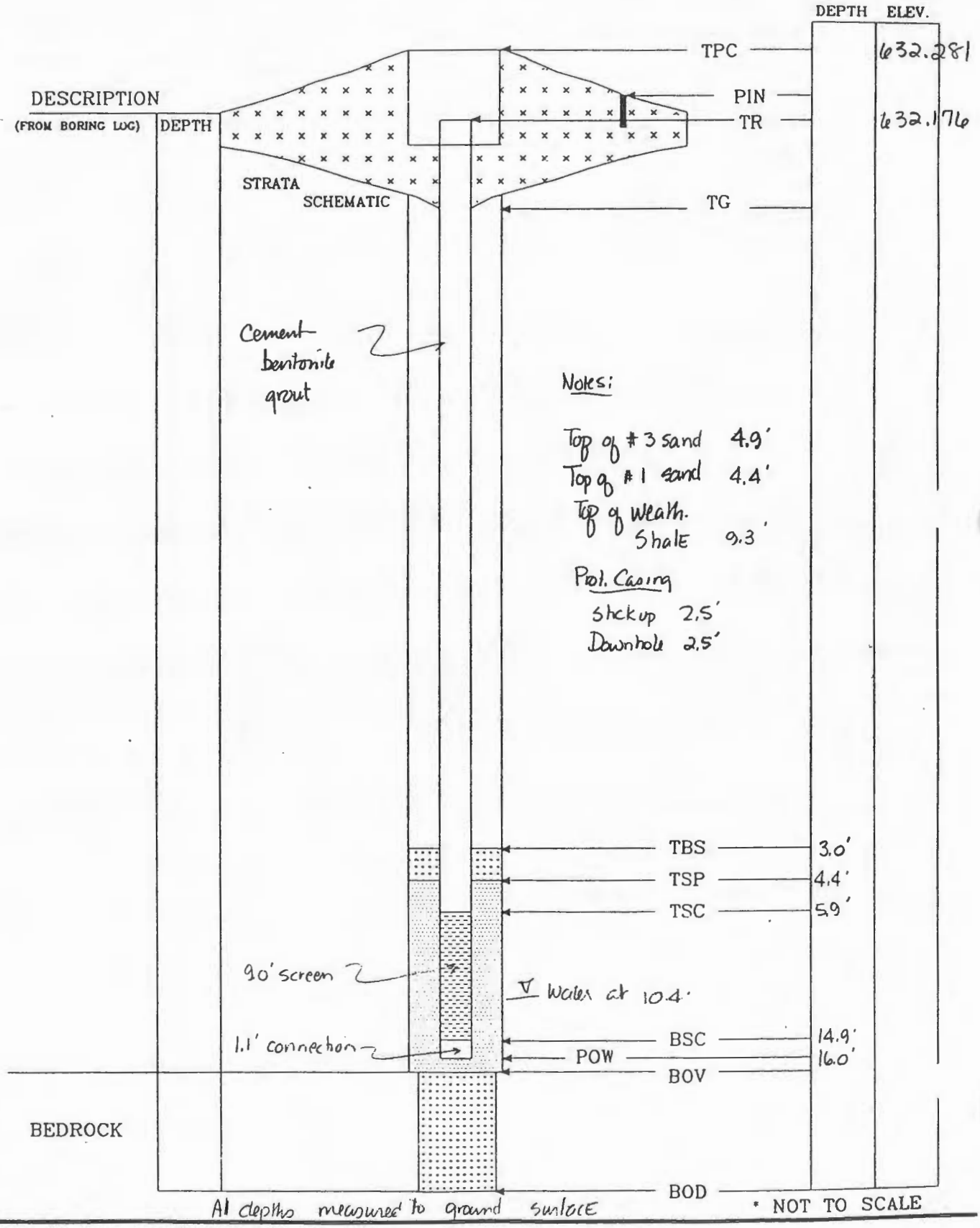
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT:	WELL #: MW24-2

DATE:



OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. CLIENT: WELL #: MW 24-3

PROJECT: 10 SWMU
LOCATION: SEAD 24

PROJECT NO: ~~SB~~
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Al
DRILLING COMPLETED: 11/6/93
BORING DEPTH: 15.'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 24

POW DEPTH: 15.0'
INSTALLATION STARTED: 11/6/93
INSTALLATION COMPLETED: 11/6/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 629.080

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH: 5.0' total

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 4.9' TYPE: PVC 40 DIAMETER: 2" LENGTH: 9' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 13.9' POW: 15.0'

GROUT:
TG: Ground TYPE: Cem-bentonite LENGTH: 2.8'

SEAL: TBS: 2.8' TYPE: Bentonite pellets LENGTH: .6'

SAND PACK: TSP: 3.9' - #1, 3.4' #3 TYPE: #3 & #1 Silica LENGTH: 11.6'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

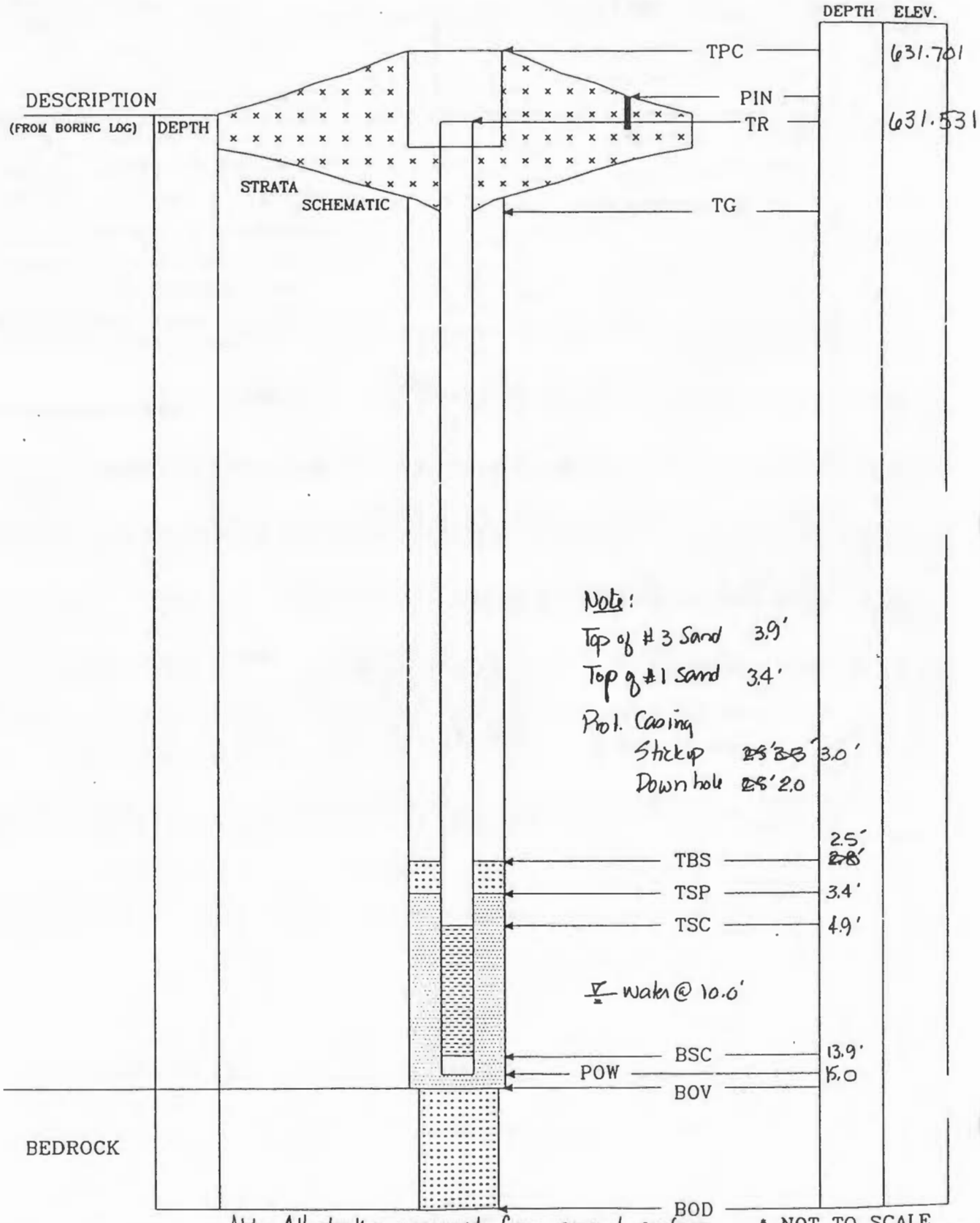
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT:	WELL #: MW24-3

DATE: _____



Note: All depths measured from ground surface

* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW25-1

PROJECT: SEAD 10 SMWU
LOCATION: SEAD 25

PROJECT NO: 720477 SB25-4
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: EMPIRE SOILS
DRILLER: JOHN/Bob
DRILLING COMPLETED: 12-3-93
BORING DEPTH: 5'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8.5"
ASSOCIATED SWMU/AOC: 25

POW DEPTH: 5.0'
INSTALLATION STARTED: 12-3-93
INSTALLATION COMPLETED: 12-3-93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW:
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 740.261

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" steel LENGTH:

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.1' TYPE: PVC 40 DIAMETER: 2" LENGTH: 1' SLOT SIZE: .01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 4.1' POW: 5.0'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.3'

SEAL: TBS: 1.3' TYPE: bentonite pellets LENGTH: .7'

SAND PACK: TSP: 2.5 = #3, 2.0 = #1 TYPE: LENGTH: .6' #3, .5' #1

SURFACE COLLAR:
TYPE: cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:
Sand was tremied.

* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

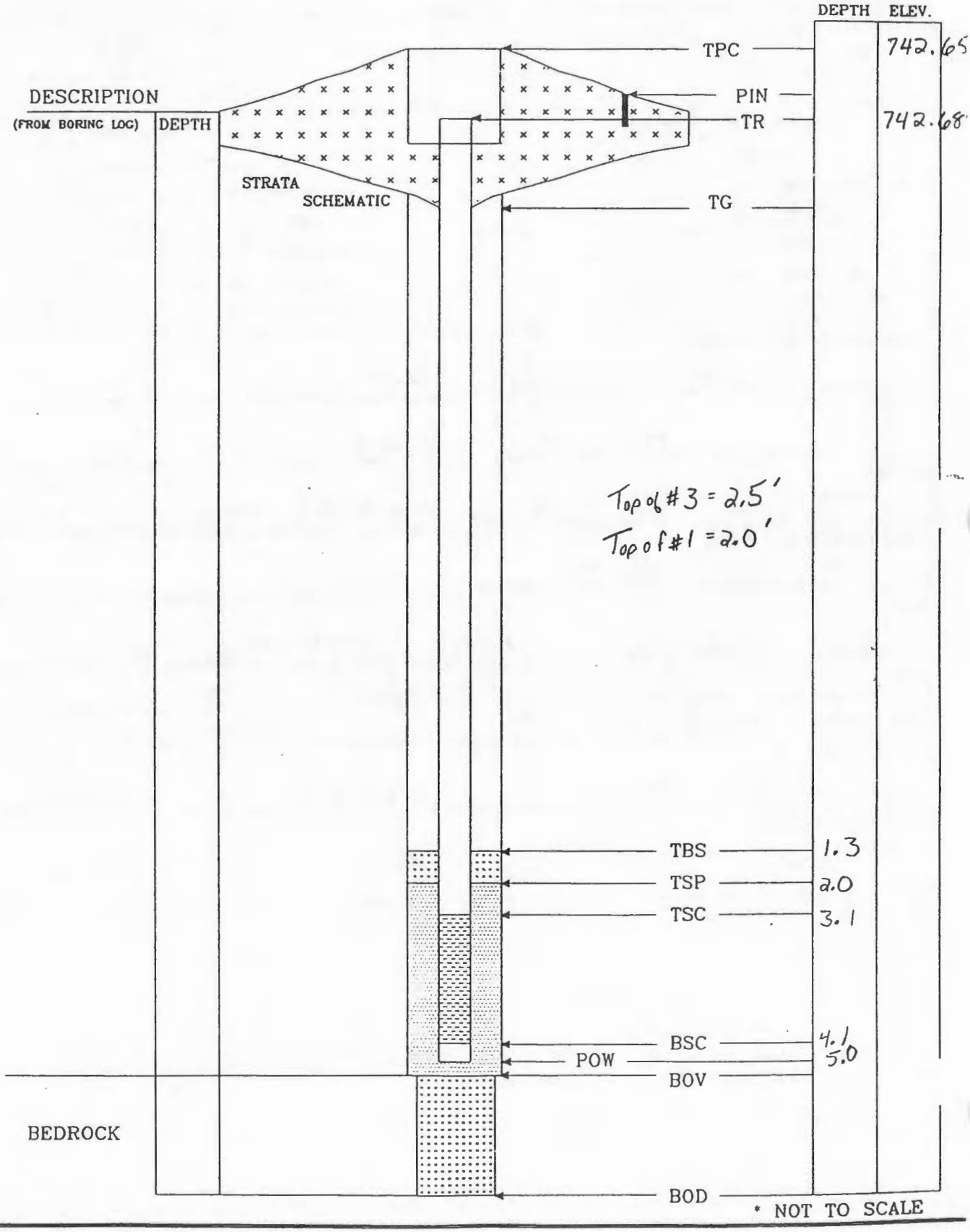
SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL

ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	WELL #: MW25.

DATE: _____



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW 25-2

PROJECT: 10 SWMU
LOCATION: SEAD 25
PROJECT NO: 720477
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: A1
DRILLING COMPLETED: 11/7/93
BORING DEPTH: 8.5'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 25
POW DEPTH: 8.5'
INSTALLATION STARTED: 11/7/93
INSTALLATION COMPLETED: 11/7/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW:
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 743.815

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.4 TYPE: PVC 40 DIAMETER: 1 1/2" LENGTH: 4.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 7.4 POW: 8.5'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.2'

SEAL: TBS: 1.2 TYPE: bentonite pellets LENGTH: 0.8'

SAND PACK: TSP: 2.0' #1 2.5-#3 TYPE: #3 and #1 silica LENGTH: 6.5'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

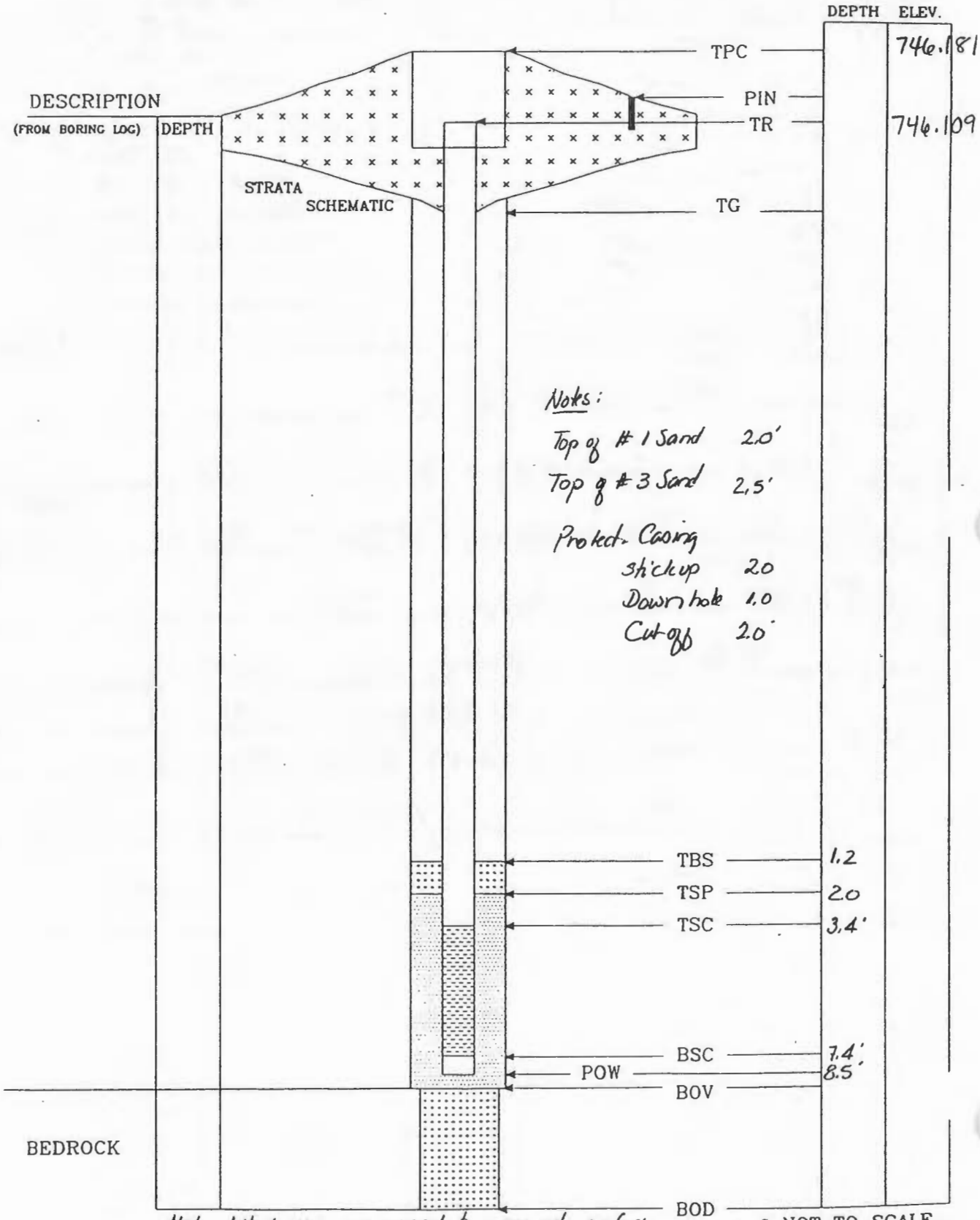
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT:	WELL #: MW25-2

DATE: _____



Note: All depths measured to ground surface.

* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW25-3

PROJECT: 10 SWMU
LOCATION: SEAD 25

PROJECT NO: 720477
INSPECTOR: ES/LB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Al
DRILLING COMPLETED: 11/7/93
BORING DEPTH: 6.5'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 25

POW DEPTH: 6.5'
INSTALLATION STARTED: 11/7/93
INSTALLATION COMPLETED: 11/7/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 743.270

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC 40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: TYPE: PVC 40 DIAMETER: 2" LENGTH: 2' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC Cap BSC: POW: 6.5'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH:

SEAL: TBS: TYPE: bentonite pellets LENGTH:

SAND PACK: TSP: #3 - #1 TYPE: #3 + #1 Silica LENGTH:

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

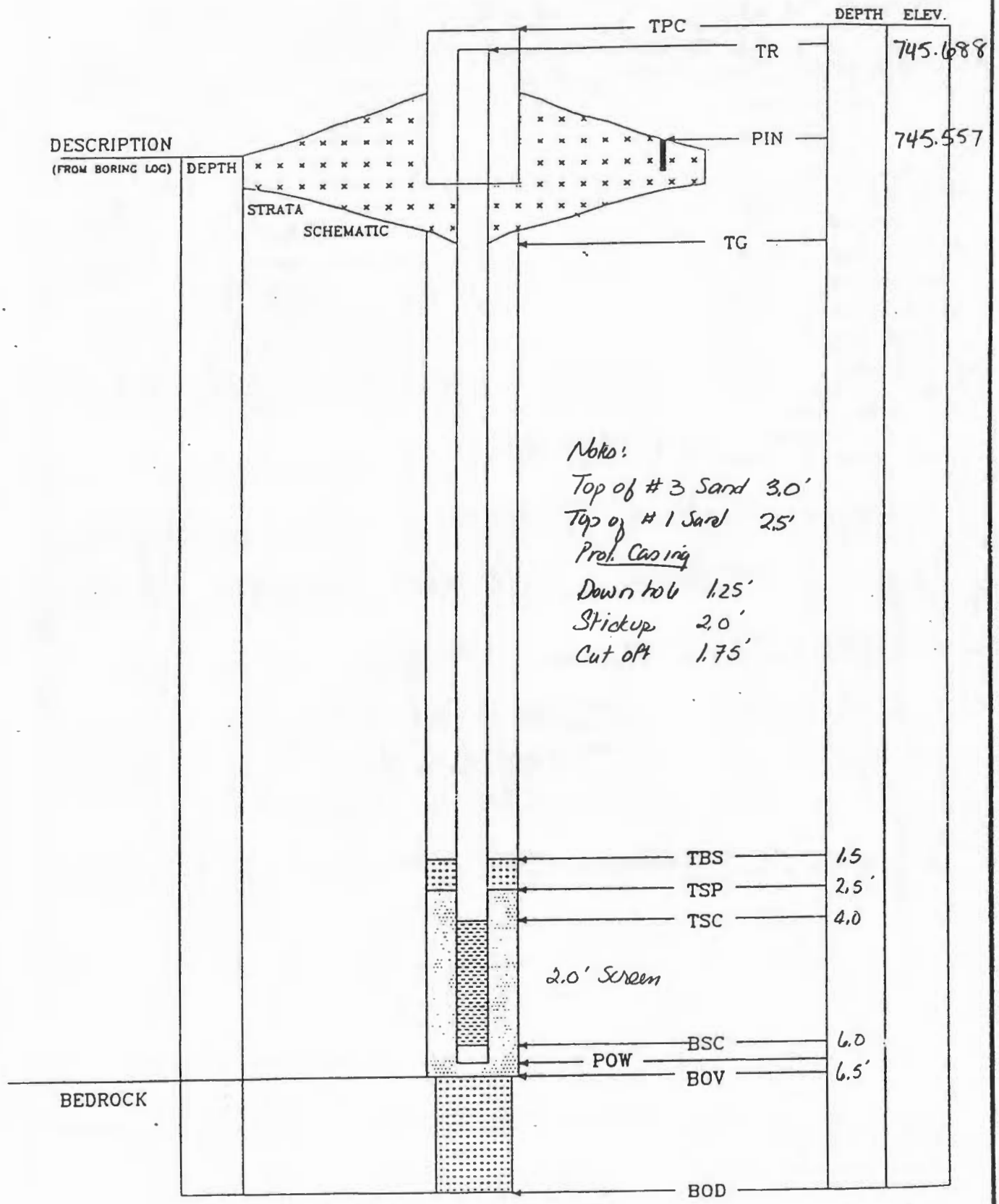
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW 25-3

DATE: 11-7-93



• NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW26-1

PROJECT: 10 SWMU
LOCATION: SEAD 26
PROJECT NO: 720477
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 11/17/93
BORING DEPTH: 6.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 26
POW DEPTH: 6.0'
INSTALLATION STARTED: 11/17/93
INSTALLATION COMPLETED: 11/18/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 751.340

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.3' TYPE: PVC-40 DIAMETER: 2" LENGTH: 2' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC-point BSC: 5.3' POW: 6.0'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.5'

SEAL: TBS: 1.5' TYPE: bentonite pellets LENGTH: 0.5'

SAND PACK: TSP: 2.3'-#1 2.8'-#3 TYPE: #3 + #1 LENGTH: 3.7'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2' x 2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: — DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:
- Rain (heavy) at ≈ 11:00. Drilling stopped

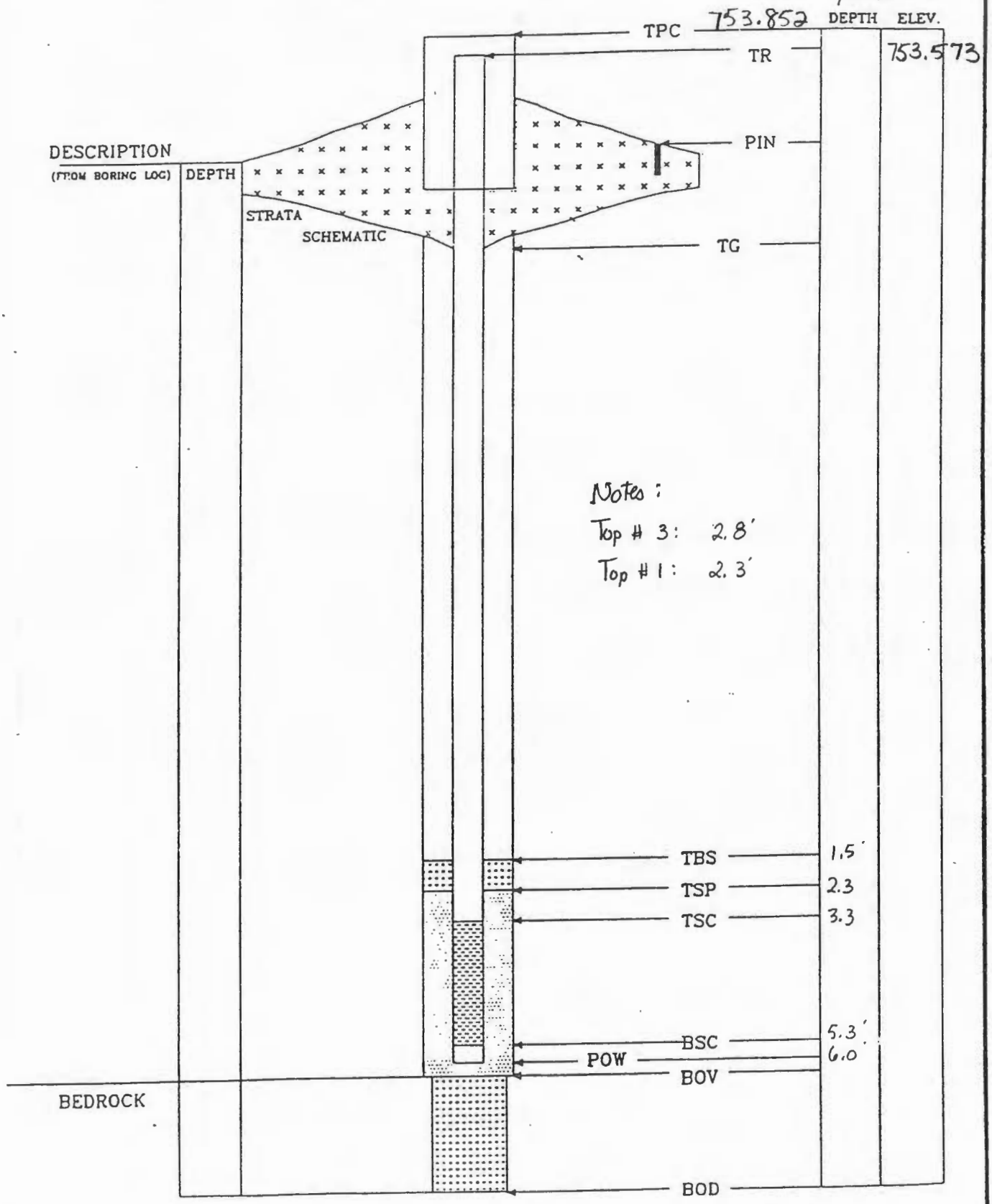
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW 26-1

DATE: 11/17/93



Note: All depths measured from ground surface

• NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW26-2

PROJECT: 10 SWMU
LOCATION: SEAD 26

PROJECT NO: 720477
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 11/18/93
BORING DEPTH: 14.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 26

POW DEPTH: 14.0'
INSTALLATION STARTED: 11/18/93
INSTALLATION COMPLETED: 11/18/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 759.024

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.9 TYPE: PVC-40 DIAMETER: 1½" LENGTH: 9.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 12.9 POW: 14.0' 0.5' point

GROUT:
TG: 0.0 TYPE: Cement-bentonite LENGTH: 1.9'

SEAL: TBS: 1.9 TYPE: bentonite pellets LENGTH: 1.0'

SAND PACK: TSP: 2.9-#1 3.4-#3 TYPE: #3 & #1 LENGTH: 11.1'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2' x 2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: — DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:
OVM's are not working. No downwind monitoring done

* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

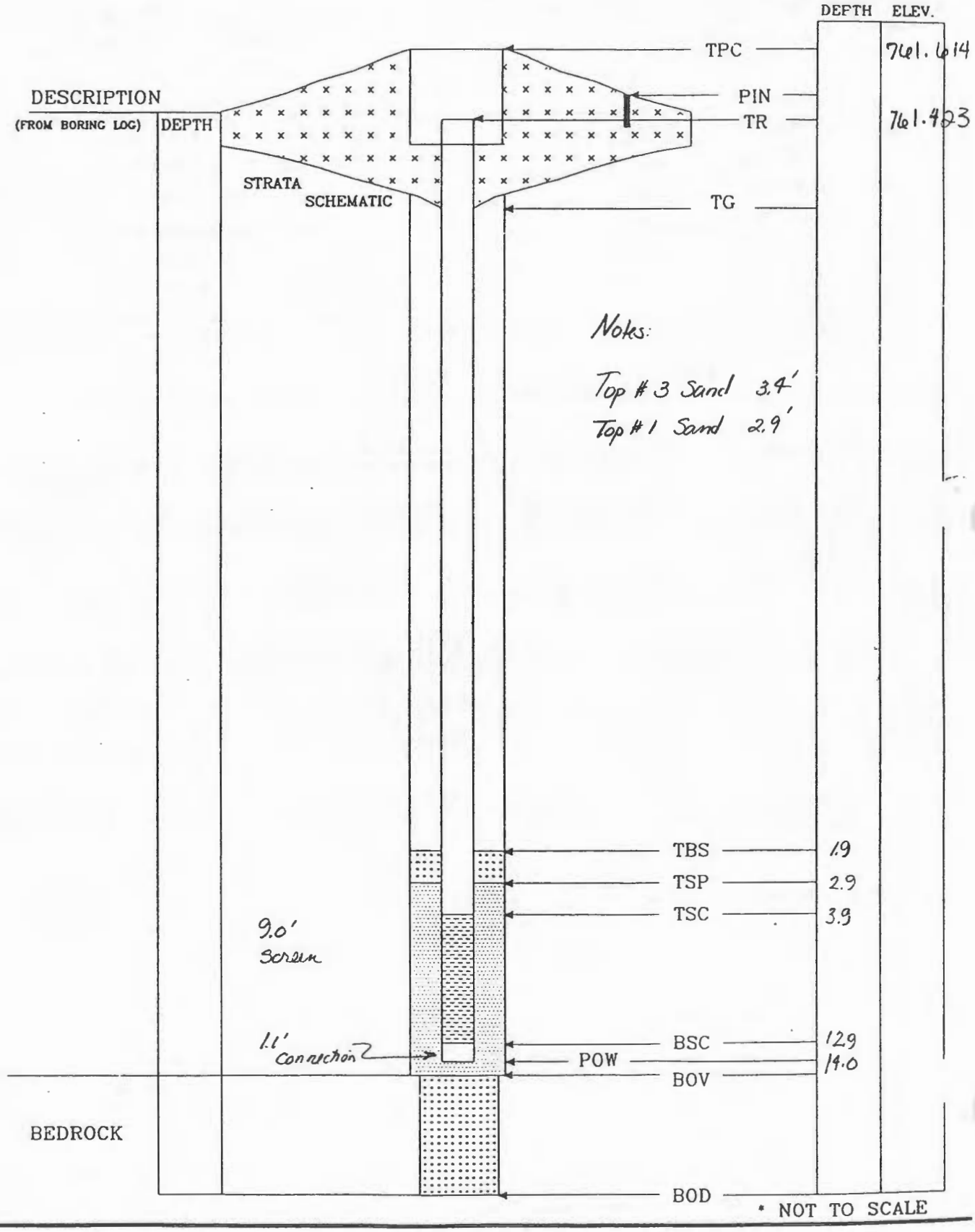
SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL

ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: ACOE	WELL #: MW26- .

DATE: _____



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW26-3

PROJECT: 10 SWMU
LOCATION: SEAD 26
PROJECT NO: 720477
INSPECTOR: ES/CB
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 11/19/93
BORING DEPTH: 14.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8½"
ASSOCIATED SWMU/AOC: 26
POW DEPTH: 14.0'
INSTALLATION STARTED: 11/18/93
INSTALLATION COMPLETED: 11/19/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 751.567

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 4.3 TYPE: PVC-40 DIAMETER: 2" LENGTH: 9.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC BSC: 13.3 POW: 14.0'

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 1.8'

SEAL: TBS: 1.8 TYPE: bentonite pellets LENGTH: 1'

SAND PACK: TSP: 2.8-#1 3.3-#3 TYPE: #3 + #1 LENGTH: 11.2'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS: No downwind monitoring.

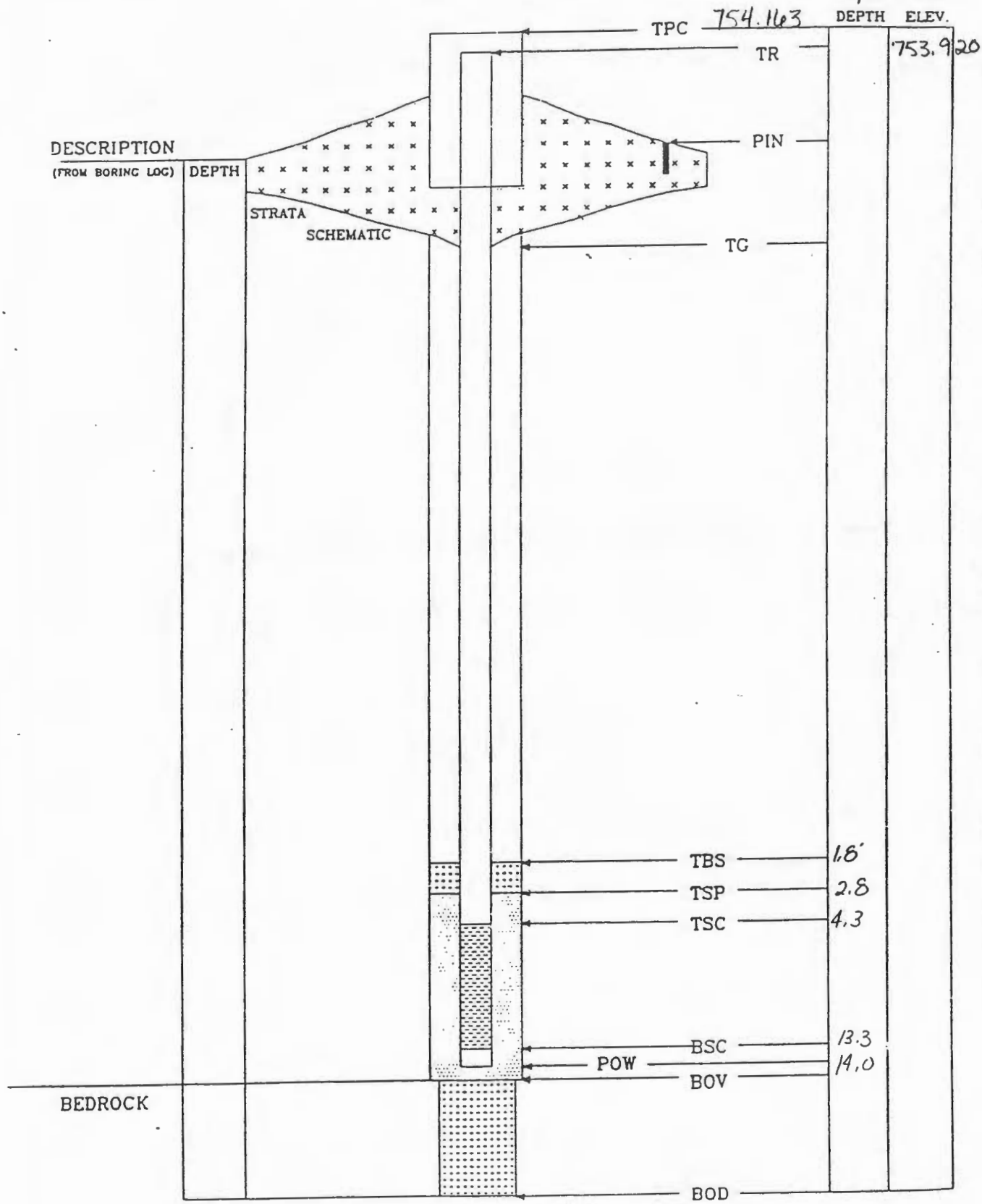
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW26-3

DATE: 11/19/93



All depths measured from ground surface.

• NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
ROADWAY BOX – SURFACE COMPLETION

ENGINEERING-SCIENCE, INC. CLIENT: AGOE WELL #: MW26-4

PROJECT: 10 SWMU
LOCATION: SEAD 26

PROJECT NO: 720477
INSPECTOR: ES
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 11/19/93
BORING DEPTH: 11.5'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 26

POW DEPTH: 11.5'
INSTALLATION STARTED: 11/19/93
INSTALLATION COMPLETED: 11/19/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 750.012

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 6.4' TYPE: PVC-40 DIAMETER: 1 1/2" LENGTH: 4' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 10.4' POW: 11.5'

GROUT:
TG: Ground TYPE: Bentonite cement LENGTH: 3.0'

SEAL: TBS: 3.0' TYPE: bentonite pellets LENGTH: 1.5'

SAND PACK: TSP: 4.5' #1 5.0'-#3 TYPE: #3 and #1 LENGTH: 7.0'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

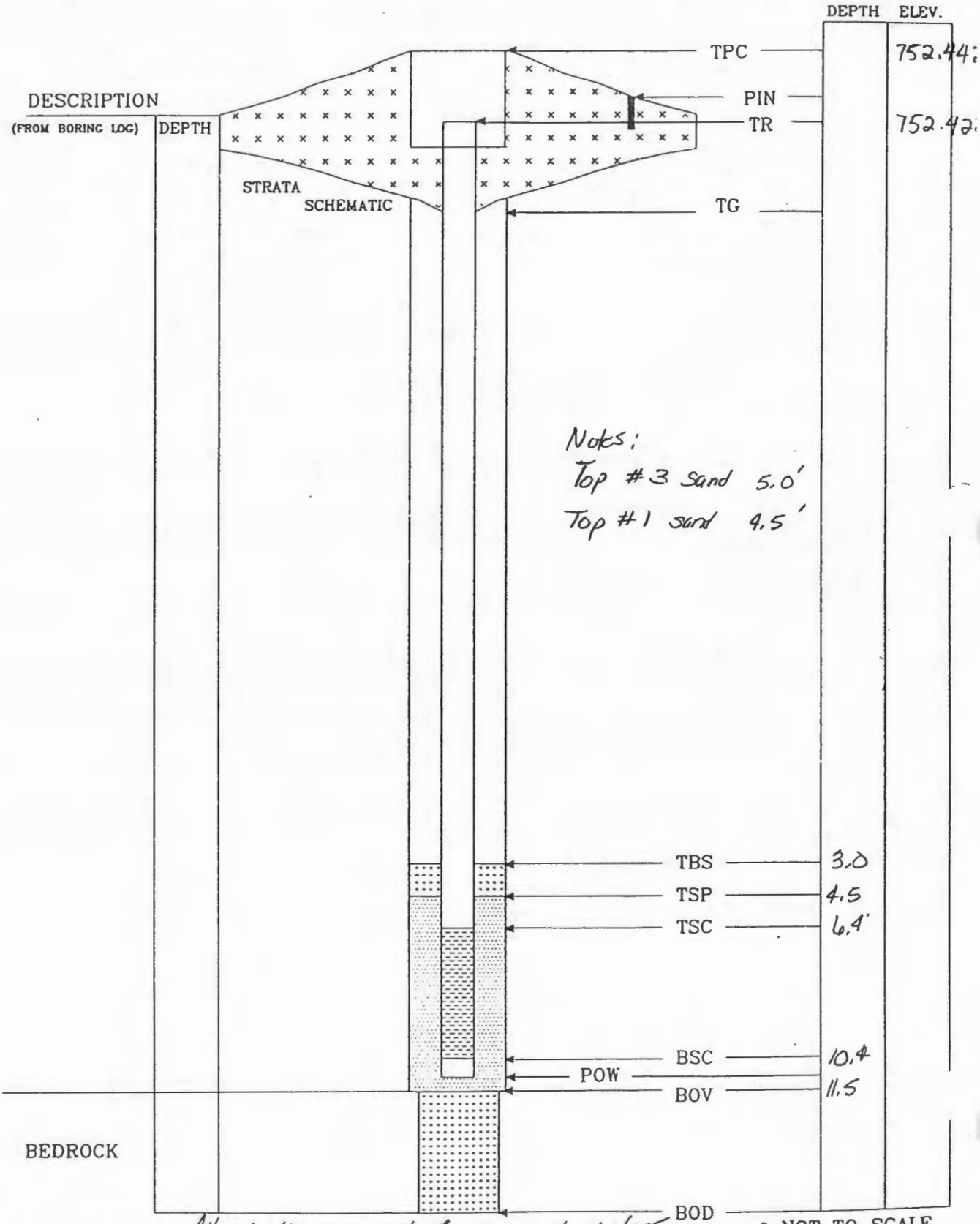
• ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
ROADWAY BOX INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT:	WELL #: MW26-4

DATE: 11/19/93



All depths measured from ground surface

* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: ACOE | WELL #: MW-45-1

PROJECT: 10 SWMU
LOCATION: SEAD-45
PROJECT NO: 720477-01001
INSPECTOR: KS/AW
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: Bob / Scott
DRILLING COMPLETED: 11/20/93
BORING DEPTH: 6.0'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: SEAD-45
POW DEPTH: 6.0'
INSTALLATION STARTED: 11/20/93
INSTALLATION COMPLETED: 11/21/93
SURFACE COMPLETION DATE: 11/21/93
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 622.794

PROTECTIVE SURFACE CASING:
DIAMETER: 4" LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 3.25' TYPE: PVC-40 DIAMETER: 2" LENGTH: 2.0' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC point BSC: 5.25' POW: 6.0'

GROUT:
TG: Ground TYPE: QuikRete ~~BENTONITE~~ SLURRY LENGTH: 1.5'

SEAL: TBS: 1.5' TYPE: bentonite pellets LENGTH: 0.75'

SAND PACK: TSP: 2.25' TYPE: #3 and #1 LENGTH: 3.75'

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

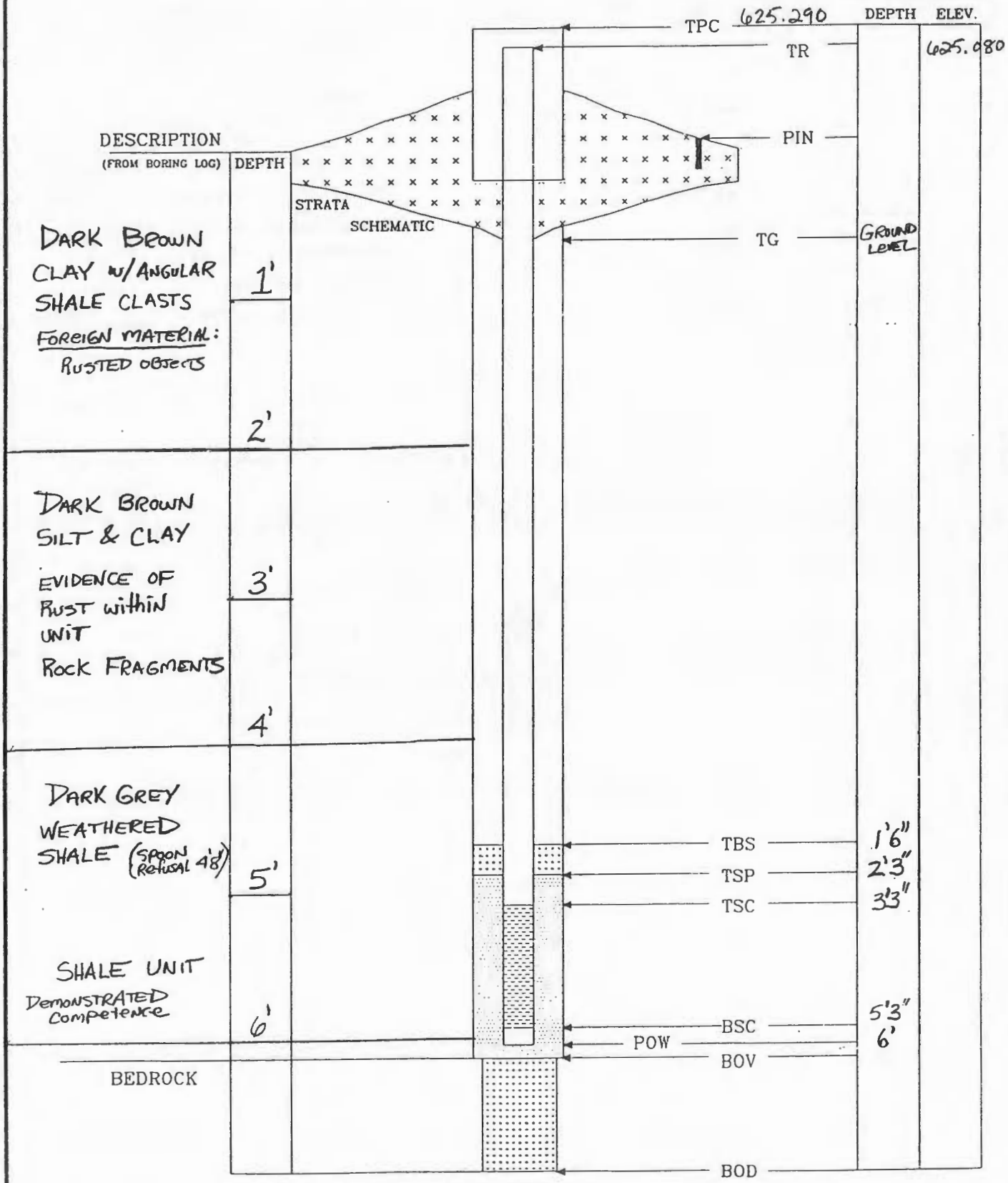
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD 10 SWMU INVESTIGATION	WELL #: MW-45-1

DATE: _____



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW-45-2

PROJECT: SEAD WELL INSTALLATION 10 SWMU
LOCATION: SEAD-45
PROJECT NO: 720477-01001
INSPECTOR: JWC/as
CHECKED BY:

DRILLING CONTRACTOR: EMPIRE SOILS
DRILLER: JOHN WARNER
DRILLING COMPLETED: 11/21/93
BORING DEPTH: 10'
DRILLING METHOD(S): Hollow STEM AUGER
BORING DIAMETER(S): 8'6"
ASSOCIATED SWMU/AOC: SWMU-45
POW DEPTH: 10'
INSTALLATION STARTED: 11/20/93
INSTALLATION COMPLETED: 11/21/93
SURFACE COMPLETION DATE: ~~11/21/93~~
COMPLETION CONTRACTOR/CREW: EMPIRE/JW/~~BB~~
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 624.6666

PROTECTIVE SURFACE CASING:
DIAMETER: 4" x 4" Steel LENGTH: 4'4"

RISER:
TR: +2'6" TYPE: PVC DIAMETER: 2" LENGTH: 4'4"

SCREEN:
TSC: 4'4" TYPE: 10-SLOT DIAMETER: 2" LENGTH: 5' SLOT SIZE: ~~10~~ 0.01"

POINT OF WELL: (SILT SUMP) 10'
TYPE: BSC: 9'4" POW: 10'

GROUT:
TG: Ø (GROUND Level) TYPE: QUIKRETE w/ Bentonite SLURRY CEMENT LENGTH: 2.0'

SEAL: TBS: 2' TYPE: BENTONITE LENGTH: 1'2"

SAND PACK: TSP: 3'2" TYPE: #3 & #1 LENGTH: ~~1'2"~~ 6'-10"

SURFACE COLLAR:
TYPE: Cement RADIUS: 1' THICKNESS CENTER: 1'9" THICKNESS EDGE: 4"

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS: SLIGHT Problem when AUGER FLIGHTS WERE RAISED. MEASUREMENT Device Became JAMMED

-Screen is 4.0' in length. PVC section is 5.0'!

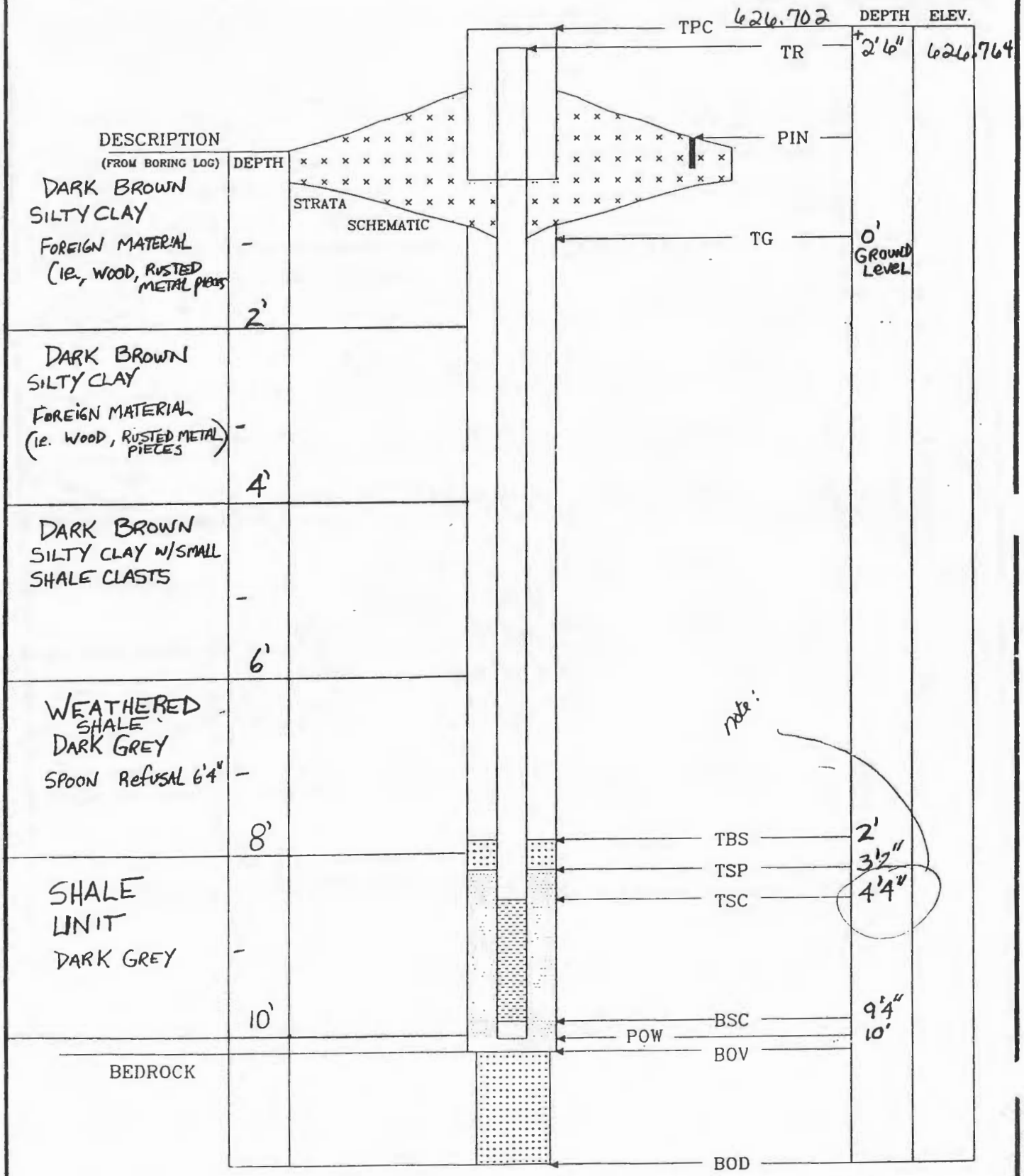
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | WELL #: MW-45-2

DATE: 11/21/93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: | WELL #: MW45-3

PROJECT: SEAD 10 SWMU
LOCATION: SEAD 45

PROJECT NO:
INSPECTOR:
CHECKED BY:

DRILLING CONTRACTOR: Empire
DRILLER: John W.
DRILLING COMPLETED: 11/21/93
BORING DEPTH: 11.33'
DRILLING METHOD(S): HSA
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: 45

POW DEPTH: 11.33'
INSTALLATION STARTED: 11/21/93
INSTALLATION COMPLETED: 11/22/93
SURFACE COMPLETION DATE:
COMPLETION CONTRACTOR/CREW: Empire
BEDROCK CONFIRMED (Y/N?)
ESTIMATED GROUND ELEVATION: 623.991

PROTECTIVE SURFACE CASING:
DIAMETER: 4"x4" Steel LENGTH:

RISER:
TR: TYPE: PVC-40 DIAMETER: 2" LENGTH:

SCREEN:
TSC: 5'7" TYPE: PVC 40 DIAMETER: 2" LENGTH: 5' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC Point BSC: 10'7" POW: 11'4"

GROUT:
TG: Ground TYPE: Cement-bentonite LENGTH: 2'-9"

SEAL: TBS: 2'-9" TYPE: LENGTH: 1'-3"

SAND PACK: TSP: 4" TYPE: #3 and #1 LENGTH: 7'-4"

SURFACE COLLAR:
TYPE: Cement RADIUS: 2'x2' THICKNESS CENTER: 1' THICKNESS EDGE: 1'

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:
Note: Screen is actually 4.0'; PVC Section is 5.0'!

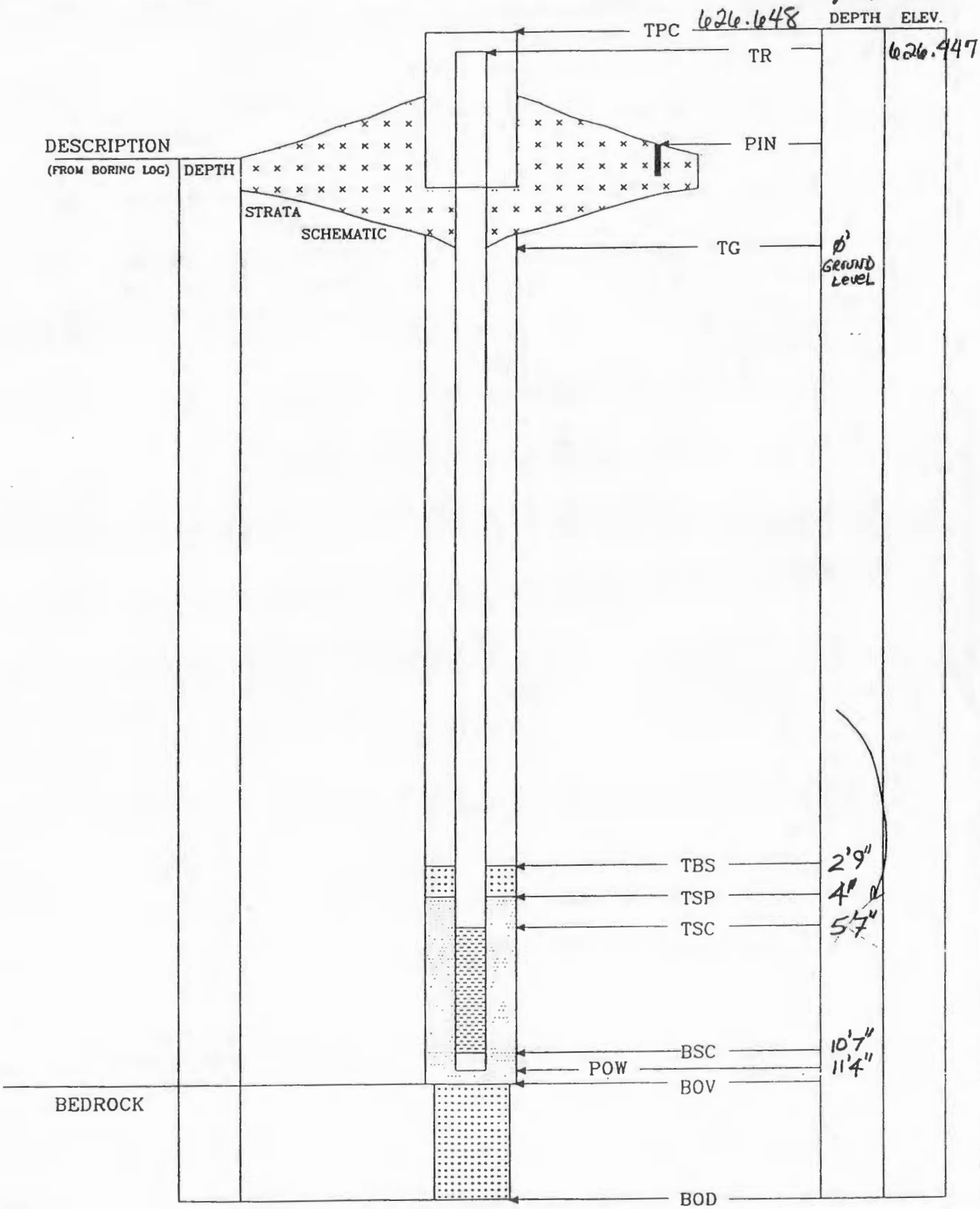
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC.	CLIENT: SEAD	WELL #: MW45-3

DATE: 11/21/93



* NOT TO SCALE

OVERBURDEN MONITORING WELL
COMPLETION REPORT & INSTALLATION DETAIL
PROTECTIVE RISER COMPLETION

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | WELL #: MW 45-4

PROJECT: 10 SWMU
LOCATION: SEAD -45
PROJECT NO: 720477-01001
INSPECTOR: JWC/AS
CHECKED BY:

DRILLING CONTRACTOR: EMPIRE SOILS
DRILLER: BOB / GIEN
DRILLING COMPLETED: 11-22-93
BORING DEPTH: 7.0'
DRILLING METHOD(S): Hollow STEM AUGER
BORING DIAMETER(S): 8 1/2"
ASSOCIATED SWMU/AOC: SEAD 45
POW DEPTH: 7.0'
INSTALLATION STARTED: 11-22-93
INSTALLATION COMPLETED: 11-22-93
SURFACE COMPLETION DATE: 11- -93
COMPLETION CONTRACTOR/CREW: EMPIRE
BEDROCK CONFIRMED (Y/N?) Y
ESTIMATED GROUND ELEVATION: 630.896

PROTECTIVE SURFACE CASING:
DIAMETER: 4" LENGTH: 2' 6"

RISER:
TR: TYPE: PVC DIAMETER: 2" LENGTH: 2' 6"

SCREEN:
TSC: 4'3" TYPE: PVC DIAMETER: 2" LENGTH: 2' SLOT SIZE: 0.01"

POINT OF WELL: (SILT SUMP)
TYPE: PVC BSC: 6' 3" POW: 7'00"

GROUT:
TG: 0.0' TYPE: QUIKRETE BENTONITE SLURY LENGTH: 2' 9"

SEAL: TBS: 2'9" TYPE: BENTONITE LENGTH: 0'6"

SAND PACK: TSP: 3'3" TYPE: #3, #1 SAND LENGTH: 3' 9"

SURFACE COLLAR:
TYPE: QUIKRETE - BENTONITE SLURY RADIUS: 1' THICKNESS CENTER: 2' 9" THICKNESS EDGE: 4"

CENTRALIZER DEPTHS
DEPTH 1: DEPTH 2: DEPTH 3: DEPTH 4:

COMMENTS:

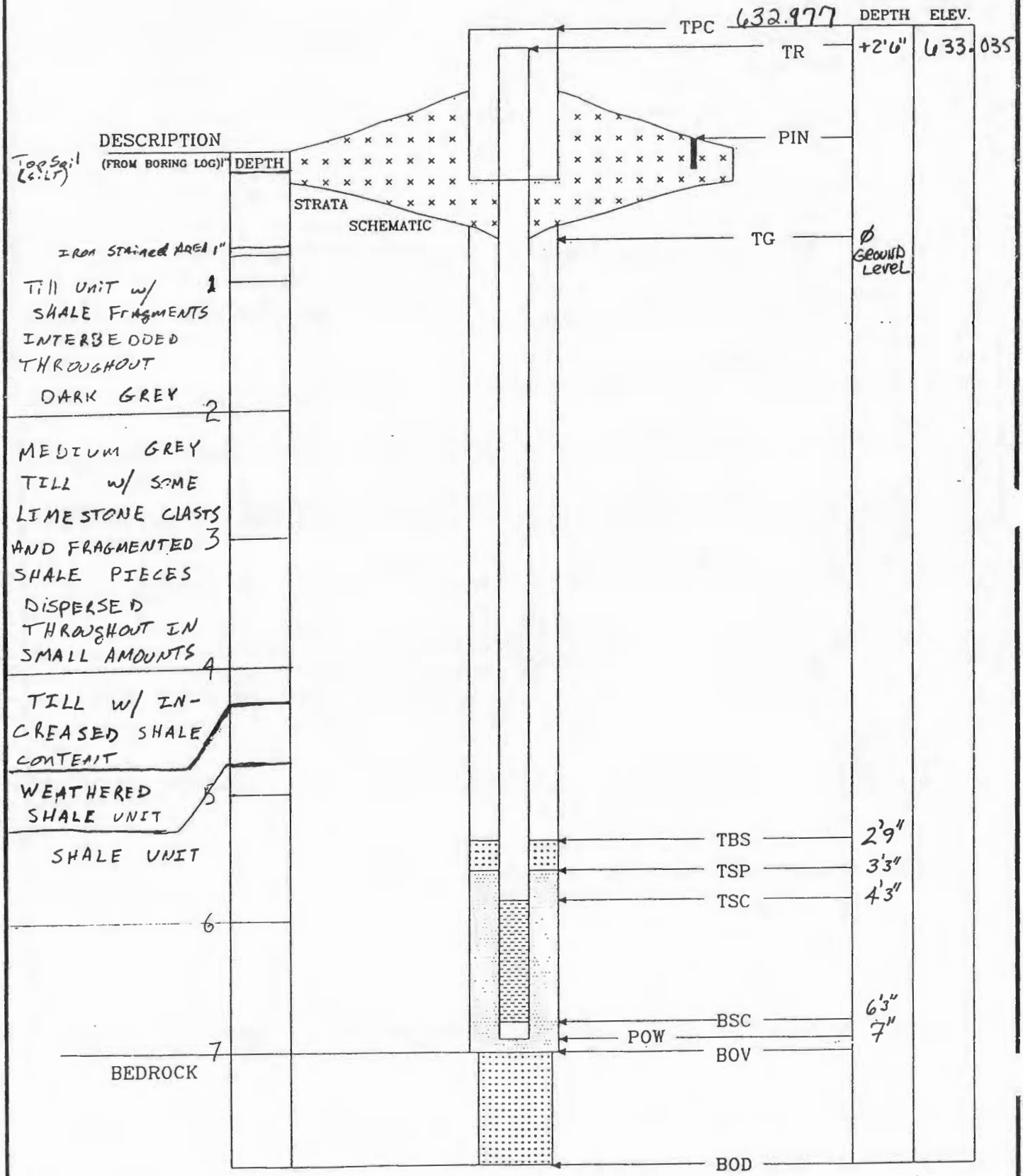
* ALL DEPTH MEASUREMENTS REFERENCED TO GROUND SURFACE

SEE PAGE 2 FOR SCHEMATIC

OVERBURDEN MONITORING WELL
PROTECTIVE RISER INSTALLATION DETAIL

ENGINEERING-SCIENCE, INC. | CLIENT: SEAD | WELL #: MW45-4

DATE: 11/22/93



* NOT TO SCALE

APPENDIX D

WELL DEVELOPMENT REPORTS

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW4-1

PROJECT: 10 SWMU ESI SEAD-4
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 12/16/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 12/6/93

INSPECTOR: AS & KK
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 12/16/93
END DEVELOPMENT DATE: 1/9/94

WATER DEPTH (TOC): 6.44 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 12.97 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.0 GAL. = A
A = 6.53 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 5.0 GAL. = B
B = 6.0 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 6.0 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 30.0 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
12/16 SURGE 1st volume	1635	1650	15	3.5				silt	very silty	
12/19 Starting conditions	1130									6.7
PUMP 1st volume	1146	1158	12	2.5	7.5	820	9		silty	10.65
PUMP 2nd volume	1200	1207	7	1					clear	dry
12/20 PUMP 2nd volume	0904	0918	14	3.3	7.21	690	9.8	p. silty	56.0	dry
PUMP 2nd volume	1504	1530	26	1.7	7.23	690	9.0	clear	5.68	dry
1/8/94 PUMP 3rd volume	1030	1045	15	3.5	7.15	750	7.0	clear	1.27	dry
1/9/94 PUMP 3rd volume	1235	1250	15	3.0	7.24	700	−1.0	clear	1.95	11.30
				COMPLETE						
TOTALS/FINAL			104	18.5	7.27	730	6.76	clear	1.95	11.30

COMMENTS:
12/19 1st volume, rate = 750 ml/min
12/19 (1200) recharging at 13 ml/min
12/20 (0904) water depth = 5.97, rate = 920 ml/min
12/20 (1504) water depth = 9.75, rate = 250 ml/min
1/8/94 rate = 500 to 900 ml/min
1/9/94 (1227) water depth = 5.71, rate = 600 ml/min

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW4-1

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW4-2

PROJECT : 10 SWMU ESI SEAD-4
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/20/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/10/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/20/93
END DEVELOPMENT DATE: 2/2/94

WATER DEPTH (TOC): 4.53 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 6.64 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.34 GAL. = A
A = 2.11 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 1.76 GAL. = B
B = 2.11 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 2.10 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 10.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/20 SURGE 1st volume	0950	1000	10	0.34				silty		dry
PUMP 1st volume	1330	1340	10	0.30				lt brn		dry
PUMP 1st volume	1350	1400	10	0.30				lt brn		dry
11/22 PUMP 1st volume	1010	1020	10	0.30				clear		dry
11/23 PUMP 1st volume	0905	0910	5	0.30				clear		dry
12/18 PUMP 1st volume	1205	1207	2	0.30				clear	16.5	
Starting conditions	1235									5.08
12/19 PUMP 1st volume	1234	1235	1	0.30	8.04	550	5	clear		dry
PUMP 2nd volume	1604	1607	3	0.30	7.68	455	5	clear	3.31	dry
12/20 PUMP 2nd volume	1029	1031	2	0.30				clear		dry
PUMP 2nd volume	1450	1452	2	0.25				clear		dry
1/9/94 PUMP 2nd volume	1530	1535		0.30						dry
2/1 SURGE 2nd volume	1510	1530	20	1.0				dk brn	1000+	dry
2/2 SURGE 3rd volume	1530	1550	20	1.0				dk brn	1000+	dry
TOTALS/FINAL			95	5.29						

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW4-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW4-2

PROJECT : 10 SWMU ESI SEAD-4
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/20/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/10/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/20/93
END DEVELOPMENT DATE:

WATER DEPTH (TOC): 4.53 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 6.64 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.34 GAL. = A
A = 2.11 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 1.76 GAL. = B
B = 2.11 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 2.10 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 10.5 GALS.

COMMENTS:

11/20 (1300) 4.86 ft.
11/21 (1350) 4.73 ft.
11/22 (1005) 4.86 ft.
11/22 (1600) 5.06 ft.
11/23 (0900) 4.96 ft.
11/23 (1350) 5.25 ft.
12/18 (1300) 4.66 ft.
12/19 (0945) 6.12 ft.
12/19 (1120) 5.37 ft.
12/19 (1235) 5.08 ft.
12/19 (1604) 5.04 ft.
12/20 (1029) 4.64 ft.
12/20 (1450) 5.10 ft.
1/9/94 Depth is 5.6 ft, rate is 600 ml/min.
2/1 Pre-PUMP depth is 4.33 ft.
2/2 Pre-PUMP depth is 4.56 ft.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW4-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW4-3

PROJECT : 10 SWMU ESI SEAD-4
LOCATION: Seneca Army Depot Romulus, NY

DATE: 11/20/93
PROJECT NO. : 720477-01001

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Bailer
INSTALLATION DATE: 11/10/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/20/93
END DEVELOPMENT DATE: 11/20/93

WATER DEPTH (TOC): 4.62 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 11.46 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.1 GAL. = A
A = 6.84 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR - WELL DIAM. FACTOR) X 0.3 = 0.91 GAL. = B
B = 6.84 * (2.95 - 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 2.01 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 10.05 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	CELCIUS TEMP	COLOR	Turbidity NTU	Water Depth (TOC) FT
SURGE 1st Volume	1025	1035	10 min	2.0	7.31	650	10	clear	NA	8.8
PUMP 2nd Volume	1130	1140	10 min	2.0	7.30	650	10.5	clear	28.7	7.46
PUMP 3rd Volume	1150	1200	10 min	2.0	7.32	650	10	clear	NA	7.50
PUMP 4th Volume	1205	1215	10 min	2.0	7.21	650	9	clear	2.27	7.58
				COMPLETE						
TOTALS/FINAL				8.0				clear	2.27	

COMMENTS: * Need to Stamp Well Case.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW4-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW4-4

PROJECT: 10 SWMU ESI SEAD-4
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 12/18/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 12/5/93

INSPECTOR: AS
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 12/18/93
END DEVELOPMENT DATE: 12/18/93

WATER DEPTH (TOC): 2.76 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 12.51 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.54 GAL. = A
A = 9.75 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR – WELL DIAM. FACTOR) X 0.3 = 5.0 GAL. = B
B = 6.0 * (2.95 – 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 6.54 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 19.54 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
12/18 SURGE 1st volume	1541	1604	23	5.0	7.60	500	8.9	silt	NA	NA
12/19 PUMP 1st volume	1150	1204	14	1.5	7.23	465	7.5	lt silt	64.2	7.62
PUMP 2nd volume	1212	1232	20	3.9	7.47	490	8.7	silt	168	dry
PUMP 2nd volume	1458	1512	14	2.7	7.19	478	8.5	silt	240	9.99
PUMP 3rd volume	1521	1530	9	1.8	7.29	480	9.1	silt	294	dry
12/20 PUMP 3rd volume	1055	1243	108	4.9	7.28	462	8.2	clear	3.25	9.62
				COMPLETE						
TOTALS/FINAL				19.8				clear	3.25	

COMMENTS:
12/19 (1206) water depth = 7.62 ft.
12/19 2nd volume recharge = 100 ml/min.
12/19 (1458) water depth = 4.88 ft, rate = 1000 ml/min.
12/19 (1521) water depth = 9.48 ft, rate = 1000 ml/min.
12/20 (1055) water depth = 2.80 ft, rate = 200 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW4-4

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW4-5

PROJECT : 10 SWMU ESI SEAD-4
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 12/18/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 12/5/93

INSPECTOR: KK & ND
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 12/18/93
END DEVELOPMENT DATE: 1/8/94

WATER DEPTH (TOC): 5.72 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 8.46 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4 93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.44 GAL. = A
A = 2.74 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR – WELL DIAM. FACTOR) X 0.3 = 2.29 GAL. = B
B = 2.74 * (2.95 – 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 2.73 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 8.19 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
12/18 SURGE 1st volume	1347	1447	60	2.7	7.4		6.2	clears	119	dry
12/19 Starting conditions	0948									6.44
PUMP 2nd volume	0958	1005	7	1.0	7.6	600	6.2	clear	15.3	dry
PUMP 2nd volume	1019	1023	4	0.2						dry
Starting conditions	1500									6.93
PUMP 2nd volume	1502	1507	5	0.6				clear	5.33	dry
12/20 PUMP 2nd volume	0954	0958	4	1.0	7.23	580	7.0	clear	32.5	7.21
PUMP 3rd volume	1005	1008	3	0.7				p. silty	108 (last 3")	dry
PUMP 3rd volume	1409	1436	27	0.8	7.5	570	6.8	clear	7.72	dry
1/6/94 PUMP 3rd volume	1030	1045	15	1.0						dry
1/8/94 PUMP 3rd volume	1035	1050	15	1.0	7.3	550	2.0	clear	1.62	dry
TOTALS/FINAL				9.0				clear	1.62	

COMMENTS:
12/18 Initial opening of well, OVM reads 0.6.
12/19 Initial opening of well, OVM reads 0.4.
12/19 1st volume, rate = 1000 ml/min.
12/19 (1500) rate = 700 ml/min.
12/20 (0950) depth = 5.73 ft, rate = 920 ml/min.
12/20 (1005) depth = 7.14 ft, rate = 920 ml/min.
12/20 (1409) depth = 6.9 ft, rate = 120 ml/min.
1/6/94 (1025) depth = 6.33 ft.
1/8 (1030) depth = 6.67 ft.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW4-5

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW16-1

PROJECT : 10 SWMU ESI SEAD-16
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/5/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 10/26/93

INSPECTOR: DMK & BFH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/5/93
END DEVELOPMENT DATE: 11/5/93

WATER DEPTH (TOC): 4.40 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): 7.94 ft
MEASURED POW DEPTH(TOC): ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.6 GAL. = A
A = 3.54 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR - WELL DIAM. FACTOR) X 0.3 = 3.0 GAL. = B
B = 3.54 * (2.95 - 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 3.6 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 18 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/5 SURGE 1st volume	0825	0925	60	3.6	6.92	600	11.3	lt brn	750	4.2
PUMP 2nd volume	0927	1015	48	3.6	7.54	600	11.7	clear	2.5	4.28
PUMP 3rd volume	1016	1103	47	3.6	6.52	600	11.7	clear	1.1	4.28
PUMP 4th volume	1104	1146	42	3.6	6.71	600	12.0	clear	1.3	4.28
PUMP 5th volume	1147	1247	60	3.6	6.78	600	12.3	clear	6.9	4.28
				COMPLETE						
TOTALS/FINAL				18				clear	6.9	

COMMENTS: 11/5 (0825) rate is about 250 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW16-1

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW16-2

PROJECT: 10 SWMU ESI SEAD-16
LOCATION: Seneca Army Depot, Romulus, NY
DATE: 11/5/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 10/26/93

INSPECTOR: DMK
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/5/93
END DEVELOPMENT DATE: 11/5/93

WATER DEPTH (TOC): 3.72 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): 6.02 ft
MEASURED POW DEPTH(TOC): ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.4 GAL. = A
A = 2.3 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 1.9 GAL. = B
B = 2.3 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 2.3 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 11.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/5 SURGE 1st volume	1257	1325	28	2.3	7.03	500	9.6	lt brn	750	3.76
PUMP 2nd volume	1325	1352	27	2.3	6.89	500	10.0	clear	2.3	3.76
PUMP 3rd volume	1353	1422	29	2.3	7.20	500	9.9	clear	0.8	3.76
PUMP 4th volume	1423	1453	30	2.3	6.86	490	9.6	clear	0.6	3.76
PUMP 5th volume	1454	1423	29	2.3	6.90	490	9.8	clear	0.3	3.78
				COMPLETE						
TOTALS/FINAL				11.5				clear	0.3	

COMMENTS: 11/5 (1257) rate is about 1200 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW16-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW16-3

PROJECT: 10 SWMU ESI SEAD-16
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/4/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 10/26/93

INSPECTOR: DMK
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/4/93
END DEVELOPMENT DATE: 11/4/93

WATER DEPTH (TOC): 4.52 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): 7.38 ft
MEASURED POW DEPTH(TOC): 7.38 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.5 GAL. = A
A = 2.86 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR - WELL DIAM. FACTOR) X 0.3 = 2.3 GAL. = B
B = 2.86 * (2.95 - 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 2.8 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 14 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/4 SURGE 1st volume		1425		2.7	6.56	315	10.5	brn	750	4.70
PUMP 2nd volume	1426	1437	11	2.7	6.83	295	9.7	lt brn		4.70
PUMP 3rd volume	1526	1537	11	2.8	7.13	290	9.5	clear	51	4.62
PUMP 4th volume	1539	1551	12	2.8	7.06	275	9.5	clear	11	4.64
PUMP 5th volume	1553	1607	14	2.8	6.07	265	9.4	clear	7.9	4.66
				COMPLETE						
TOTALS/FINAL				13.8				clear	7.9	

COMMENTS: 11/4 (1426) rate is about 270 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW16-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW17-1

PROJECT : 10 SWMU ESI SEAD-17
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/6/94
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 12/1/93

INSPECTOR: BH
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 1/6/94
END DEVELOPMENT DATE: 1/7/94

WATER DEPTH (TOC): 4.76 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 10.34 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.9 GAL. = A
A = 5.58 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 4.66 GAL. = B
B = 5.58 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 5.56 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 27.8 GALS.
= 3 X C 16.68 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/6 SURGE 1st volume	1540	1615	35	5.0	7.12	400	5.0	dk brn	1000+	6.6
1/7 PUMP 2nd volume	1035	1048	13	5.0	7.16	405	6.0	silty	608	7.4
PUMP 3rd volume	1050	1112	22	5.0	7.10	380	6.0	clear	2.19	8.0
PUMP 4th volume	1115	1136	21	5.0	7.06	390	6.0	clear	4.48	8.3
PUMP 5th volume	1138	1205	27	5.0	7.00	390	6.0	clear	2.35	8.6
				COMPLETE						
TOTALS/FINAL				25				clear	2.35	

COMMENTS: 1/7 2nd volume : rate of 780 ml/min, level dropping. 1/7 5th volume rate of 700 ml/min.
1/7 3rd volume : rate of 660 ml/min, level maintaining.
1/7 4th volume : rate of 700 ml/min, level dropping slightly.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW17-1

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW17-2

PROJECT : 10 SWMU ESI SEAD-17
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/6/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/2/93

INSPECTOR: DMK
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/6/93
END DEVELOPMENT DATE: 11/6/93

WATER DEPTH (TOC): 3.26 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 7.96 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.77 GAL. = A
A = 4.7 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 3.09 GAL. = B
B = * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 3.86 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 19.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/6 SURGE 1st volume	0815	0915	60	3.9	7.60	500	9.6	lt brn		7.62
PUMP 2nd volume	0916	1135		3.9	7.15	550	9.0	clear	1.0	6.60
PUMP 3rd volume	1400	1500	60	3.9	6.54	600	9.2	clear	15.7	7.96
PUMP 4th volume	0842	0950	68	3.9	7.40	600	8.9	clear	3.5	7.18
PUMP 5th volume	1242	1250	68	3.9	6.50	600	9.6	clear	1.7	7.24
				COMPLETE						
TOTALS/FINAL				19.5				clear	1.7	

COMMENTS: 11/6 (0935) Pump shut down to allow well to recharge.
11/6 (1010) depth = 6.28 ft.
11/6 (1400) depth = 3.32 ft.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW17-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW17-3

PROJECT : 10 SWMU ESI SEAD-17
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/6/94
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/30/93

INSPECTOR: BH & KS
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 1/6/94
END DEVELOPMENT DATE: 1/9/94

WATER DEPTH (TOC): 4.08 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 7.8 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.6 GAL. = A
A = 3.72 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 3.11 GAL. = B
B = 3.72 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 3.71 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 18.55 GALS.
= 3 X C 11.13 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/6 SURGE 1st volume	1415	1430	15	1.5						
PUMP 1st volume	1455	1520	5	0.5						dry
1/7 PUMP 1st volume	0940	0955	15	1.5						dry
PUMP 1st volume	1040			0.25	7.5	400	0	clear	5.09	dry
1/8 PUMP 2nd volume	1110	1118	8	1.75						dry
1/9 PUMP 2nd volume	1345	1355	10	1.75	7.65	485	5.0	p. silty		
PUMP 2nd volume	1420	1421	1	0.25	7.60	420	4.0	clear	2.92	dry
				COMPLETE						
TOTALS/FINAL				7.5				clear	2.92	

COMMENTS: 1/8 2nd volume rate = 1500ml/min.
1/9 (1345) depth = 4.90 ft.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW17-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW17-4

PROJECT: 10 SWMU ESI SEAD-17
LOCATION: Seneca Army Depot, Romulus, NY
DATE: 1/6/94
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/30/93

INSPECTOR: KS
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 1/6/94
END DEVELOPMENT DATE: 1/6/94

WATER DEPTH (TOC): 4.43 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): 8.46 ft
MEASURED POW DEPTH(TOC): 8.46 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.65 GAL. = A
A = 4.03 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 3.37 GAL. = B
B = 4.03 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 4.05 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 20 GALS.
= 3 X C 12 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/6 SURGE 1st volume	1410	1500	50	4.0	7.45	370	3.0	dark		
PUMP 2nd volume	1503	1545	42	4.0	7.49	350	3.0	clear	8.3	7.5
PUMP 3rd volume	1548	1630	43	4.0	7.56	355	3.0	clear		
TOTALS/FINAL				12.0				clear		

COMPLETE

COMMENTS: 1/6 2nd volume rate = 350 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW17-4

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW24-1

PROJECT: 10 SWMU ESI SEAD-24
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/10/94
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 12/1/93

INSPECTOR: BH
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 1/10/94
END DEVELOPMENT DATE: 1/10/94

WATER DEPTH (TOC): 4.36 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 12.06 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.26 GAL. = A
A = 7.7 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 6.43 GAL. = B
B = 7.7 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 7.69 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 38.45 GALS.
= 3 X C 23.07 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/10 SURGE 1st volume	1100	1135	35	7.7	7.20	460	5.5	cl. brn		11.10
PUMP 2nd volume	1310	1400	50	7.7	7.15	460	5.5	cloudy	1000+	10.3
PUMP 3rd volume	1405	1500	55	7.7	7.50	450	2.5	clear	8.72	11.88
PUMP 4th volume	1505	1517	12	2.0						
PUMP 4th volume	1530	1630	60	5.7	7.20	440	5.0	clear	39.8	9.80
TOTALS/FINAL				30.8				clear	39.8	

COMPLETE

COMMENTS: 1/10 (1305) depth = 4.35 ft., rate = 400 ml/min to 660 ml/min.
1/10 3rd volume : NTU at 4 gals. is 275, at 5 gals. is 311.
1/10 3rd volume rate = 475 ml/min.
1/10 4th volume rate = 475 ml/min.
1/10 (1517) Generator out of gas.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW24-1

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW24-2

PROJECT : 10 SWMU ESI SEAD-24
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/7/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/6/93

INSPECTOR: BH & DMK
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/7/93
END DEVELOPMENT DATE: 11/12/93

WATER DEPTH (TOC): 10.44 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 18.52 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.3 GAL. = A
A = 8.08 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR - WELL DIAM. FACTOR) X 0.3 = 6.8 GAL. = B
B = 8.08 * (2.95 - 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 8.1 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 40.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/7 SURGE 1st volume	1450	1525	35	8.1	6.5	700	12.5	silty		16.7
PUMP 2nd volume	1530			3.0						17.24
11/8 PUMP 2nd volume				5.1	7.50	650	12.1	silty		10.30
11/9 PUMP 3rd volume	1150			8.1	7.42	650	13.2	silty		17.42
11/10 PUMP 4th volume	1335	1435	60	8.1	7.79	650	13.0	cloudy	154	16.4
11/12 PUMP 5th volume	0800			7.0						
PUMP 5th volume	1230	1240	10	1.0	7.49	600	11.8	clear	50.6	12.8
PUMP 6th volume	1240			3.0					5.55	13.0
				COMPLETE						
TOTALS/FINAL				43.4				clear	5.55	

COMMENTS:
11/8 depth = 10.30 ft.
11/9 depth = 10.28 ft.
11/10 depth = 10.10 ft., rate = 300 ml/min.
11/12 (0808) depth = 10.04 ft., pump dies so bailed 7 gallons.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW24-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW24-3

PROJECT : 10 SWMU ESI SEAD-24
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/8/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/6/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/8/93
END DEVELOPMENT DATE: 11/8/93

WATER DEPTH (TOC): 7.55 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 17.25 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.6 GAL. = A
A = 9.70 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR - WELL DIAM. FACTOR) X 0.3 = 8.1 GAL. = B
B = 9.70 * (2.95 - 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 9.7 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 48.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/8 SURGE 1st volume	1430	1455	25	9.7	7.44	550	13.1	silty		9.65
PUMP 2nd volume	1505	1525	20	9.7	7.24	550	13.6	clear	106	10.80
PUMP 3rd volume	1535	1555	20	9.7	7.39	550	13.5	clear	16.9	11.30
PUMP 4th volume	1600	1618	18	9.7	7.55	550	13.1	clear	59.0	11.60
PUMP 5th volume	1621	1641	20	9.7	7.52	550	13.2	clear	58.4	11.90
				COMPLETE						
TOTALS/FINAL				48.5				clear	58.4	

COMMENTS: 11/8 rate = 2 L/min.
The 4th volume and 5th volume water had a noticable cloudy film. OVM reading 0 ppm.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW24-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW25-1

PROJECT: 10 SWMU ESI SEAD-25
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/8/94
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 12/3/93

INSPECTOR: KS
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 1/8/94
END DEVELOPMENT DATE: 1/8/94

WATER DEPTH (TOC): 5.95 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): 7.78 ft
MEASURED POW DEPTH(TOC): 7.78 ft
SILT THICKNESS: none ft
POW AFTER DEVELOPMENT: 7.78 ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 1.83 GAL. = A

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 2.51 GAL. = B

SINGLE STANDING WATER VOLUME = A + B = ... 4.34 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 21.7 GALS.
= 3 X C 13.02 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/8 SURGE 1st volume	1420	1440	20	4.34	6.97	470	4.0	brn	1000+	6.2
PUMP 2nd volume	1448	1500	12	4.34	6.98	500	4.0	silty	129	6.6
PUMP 3rd volume	1500	1512	12	4.34	6.96	525	4.0	clear	30.3	6.6
PUMP 4th volume	1515	1525	10	4.34	7.00	550	4.0	clear	10.3	6.6
PUMP 5th volume	1525	1535	10	4.34	7.00	600	4.0	clear	4.44	
				COMPLETE						
TOTALS/FINAL				21.7				clear	4.44	

COMMENTS: "A" is the standing water column inside the well.
"B" is calculated from (POW − TSP) as the water column below seal.
2nd volume depth is 6.65 ft., rate is kept at 1500 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW25-1

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW25-2

PROJECT : 10 SWMU ESI SEAD-25
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/11/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/7/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/11/93
END DEVELOPMENT DATE: 11/22/93

WATER DEPTH (TOC): 5.12 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 11.2 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.99 GAL. = A
A = 6.08 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 5.1 GAL. = B
B = 6.08 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 6.1 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 30.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/11 SURGE 1st volume	1015			3.5						dry
PUMP 1st volume		1430		2.6	7.53	700	12.6	lt brn		10.24
11/12 PUMP 2nd volume	1400	1630		5.0	7.40	650	10.6	clear	3.03	dry
11/22 PUMP 3rd volume	1450	1535		6.1	7.19	700	12	clear	1.23	dry
				COMPLETED						
TOTALS/FINAL				17.2				clear	1.23	

COMMENTS: 11/11 OVM reading of 44 ppm.
11/12 OVM reading of 53 ppm.
11/21 depth = 4.68 ft.
11/22 depth = 4.78 ft., OVM reading of 183 ppm (max), 0 ppm during development.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW25-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW25-3

PROJECT : 10 SWMU ESI SEAD-25
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/9/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/7/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/9/93
END DEVELOPMENT DATE: 11/11/93

WATER DEPTH (TOC): 4.8 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 9.8 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.8 GAL. = A
A = 5.0 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR – WELL DIAM. FACTOR) X 0.3 = 3.3 GAL. = B
B = 4.0 * (2.95 – 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 4.1 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 20.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/9 SURGE 1st volume	1345	1405	20	4.1	7.36	500	12.6	silty		9.50
11/11 PUMP 2nd volume	0935	1045	70	4.1	7.37	450	10.7	clear	1.13	7.90
PUMP 3rd volume	1045	1210	85	3.5						
PUMP 3rd volume		1410		0.6	7.42	500	12.2	clear	1.73	7.70
PUMP 4th volume	1425	1575	50	2.0						
				COMPLETE						
TOTALS/FINAL				14.3				clear	1.73	

COMMENTS: 11/11 (0930) depth is 4.9 ft., rate of 1 L/min, OVM reading of 23 ppm.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW25-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW26-1

PROJECT: 10 SWMU ESI SEAD-26
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/20/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/17/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/20/93
END DEVELOPMENT DATE: 1/9/94

WATER DEPTH (TOC): 4.76 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 8.22 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.6 GAL. = A
A = 3.46 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 2.9 GAL. = B
B = 3.46 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 3.5 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 17.5 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/20 SURGE 1st volume	1500	1510	10	1.8				silty		dry
11/21 PUMP 1st volume	1520	1540	10	1.5				clear		dry
11/22 PUMP 1st volume	0850	0905	15	1.0	7.62	550	10.5	clear	5.23	7.92
11/23 PUMP 2nd volume	0805	0820	15	1.0				clear		dry
1/7/94 PUMP 2nd volume	1135	1140	5	0.75						dry
1/8 PUMP 2nd volume	1400	1410	15	0.25						dry
1/9 PUMP 2nd volume	1105	1110	5	0.25				clear		dry
				COMPLETE						
TOTALS/FINAL				6.55				clear		

COMMENTS:
11/21 (1340) depth = 6.6 ft.
11/21 (1520) depth = 6.20 ft., rate = 700 ml/min.
11/22 (1430) depth = 7.09 ft.
11/23 (0800) depth = 6.39 ft.
11/23 (0800) depth = 6.39 ft., (1345) depth = 7.15 ft.
1/7/94 (1130) depth = 6.85 ft., rate = 1 L/min.
1/8 (1400) depth = 7.20 ft., rate = 300 ml/min.
1/9 (1105) depth = 7.32 ft., rate = 300 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW26-1

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW26-2

PROJECT : 10 SWMU ESI SEAD-26
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/9/94
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/18/93

INSPECTOR: BH
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 1/9/94
END DEVELOPMENT DATE: 1/12/94

WATER DEPTH (TOC): 15.67 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 16.58 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.148 GAL. = A
A = 0.91 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR - WELL DIAM. FACTOR) X 0.3 = 0.76 GAL. = B
B = 0.91 * (2.95 - 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 0.91 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 4.55 GALS.
= 3 X C 2.73 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/9 SURGE 1st volume	1040	1045		0.03						dry
1/12 SURGE 1st volume	1400	1400		0.00						dry
TOTALS/FINAL				0.03						

COMPLETE

COMMENTS: 11/21 depth = 15.48 ft.
11/22 depth = 15.64 ft.
1/9/94 depth = 15.67 ft.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW26-2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW26-3

PROJECT: 10 SWMU ESI SEAD-26
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/20/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/18/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/20/93
END DEVELOPMENT DATE: 11/20/93

WATER DEPTH (TOC): 11.42 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 16.42 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.82 GAL. = A
A = 5.0 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 4.2 GAL. = B
B = 5.0 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 5.0 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 25 GALS.
= 3 X C 15 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/20 SURGE 1st volume	1550	1610	20	5.0	6.92	700	10.5	silty		11.90
PUMP 2nd volume	1625	1635	10	5.0	6.65	650	11.0	clear	37.7	11.78
PUMP 3rd volume	1635	1650	15	5.0	6.64	700	11.0	clear	5.32	11.68
				COMPLETE						
TOTALS/FINAL				15.0				clear	5.32	

COMMENTS:

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW26-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW26-4

PROJECT: 10 SWMU ESI SEAD-26
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 12/6/93
PROJECT NO.: 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/19/93

INSPECTOR: BH
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 11/21/93
END DEVELOPMENT DATE: 11/21/93

WATER DEPTH (TOC): 10.35 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 13.80 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.56 GAL. = A
A = 3.45 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 2.88 GAL. = B
B = 3.45 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 3.44 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 17.2 GALS.
= 3 X C 10.3 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
11/21 SURGE 1st volume	0930	0950	20	3.5	6.98	850	11.5	silty		11.4
PUMP 2nd volume	1015	1030	15	3.5	7.04	850	11.5	clear	5.95	10.74
PUMP 3rd volume	1130	1140	10	3.5	7.07	850	12	clear	20.0	11.10
PUMP 4th volume	1145	1155	10	3.5	7.07	850	12	clear	6.13	11.10
TOTALS/FINAL				14				clear	6.13	

COMPLETE

COMMENTS: 2nd volume rate is 1 L/min.
At the 3rd volume, the hose was changed.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW26-4

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW45-1

PROJECT : 10 SWMU ESI SEAD-45
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/17/94
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/21/93

INSPECTOR: AW & KS
CONTRACTOR:
CREW:
START DEVELOPMENT DATE: 1/17/94
END DEVELOPMENT DATE: NA

WATER DEPTH (TOC): 7.87 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 8.49 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.10 GAL. = A
A = 0.62 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR – WELL DIAM. FACTOR) X 0.3 = 0.52 GAL. = B
B = 0.62 * (2.95 – 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 0.62 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 3 X C ..... 1.86 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/17 Check water depth										7.87
1/20 Check water depth	0910									7.85
3/4 Check water depth (KS,MB,BH)										7.87
TOTALS/FINAL										

COMMENTS: Well is dry and cannot be developed.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW45-1

WELL DEVELOPMENT REPORT

ENGINEERING–SCIENCE, INC.	CLIENT: USACOE	WELL #: MW45–2

PROJECT : 10 SWMU ESI SEAD–45
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/17/94
PROJECT NO. : 720477–01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/20/93

INSPECTOR: KS & AW
CONTRACTOR:
CREW: UXB (DI & JK)
START DEVELOPMENT DATE: 1/17/94
END DEVELOPMENT DATE: 1/26/94

WATER DEPTH (TOC): 10.96 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 12.46 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.25 GAL. = A
A = 1.5 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR – WELL DIAM. FACTOR) X 0.3 = 1.25 GAL. = B
B = 1.5 * (2.95 – 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 1.49 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 20 GALS.
= 3 X C 4.47 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
12/19/93 Check water depth										9.74
1/17/94 SURGE 1st volume	1000	1015	15	0.5						dry
1/20 SURGE 1st volume	0945	0948	3	0.2						dry
PUMP 1st volume	0949	0955	6	0.2						dry
1/23 PUMP 1st volume	1405	1410	5	0.2				clear		dry
1/25 PUMP 1st volume	0945	0950	5	0.2				clear		dry
1/26 PUMP 1st volume	0910	0912	2	0.1				clear	1.26	dry
				COMPLETE						
TOTALS/FINAL				1.4				clear	1.26	

COMMENTS:
1/20 depth = 11.24 ft.
1/21 depth = 11.23 ft.
1/23 depth = 11.28 ft.
1/25 depth = 11.37 ft.
1/26 depth = 12.28 ft.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW45–2

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW45-3

PROJECT : 10 SWMU ESI SEAD-45
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 1/17/94
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/21/93

INSPECTOR: BH & KK
CONTRACTOR:
CREW: UXB (JK)
START DEVELOPMENT DATE: 1/17/94
END DEVELOPMENT DATE: 1/26/94

WATER DEPTH (TOC): 9.07 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 14.08 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.82 GAL. = A
A = 5.01 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR − WELL DIAM. FACTOR) X 0.3 = 4.19 GAL. = B
B = 5.01 * (2.95 − 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 5.01 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 3 X C ..... 15.03 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/17 SURGE 1st volume	1005	1130	85	4.0				brn		dry
1/18 PUMP 1st volume	0935	0935	1	0.5						dry
1/20 PUMP 1st volume	0845	0847	2	0.5	7.10	750	2.0	clear	1.59	
1/21 PUMP 2nd volume	0915	0923	8	0.75				clear		dry
1/23 PUMP 2nd volume	1335	1347	12	1.3						dry
1/25 PUMP 2nd volume	0910	0923	13	1.2				clear		dry
1/26 Check water depth										12.28
1/26 PUMP 2nd volume	0912	0920	8	0.7	7.4	740	4.0	clear	3.16	dry
				COMPLETE						
TOTALS/FINAL				8.95				clear	3.16	

COMMENTS:
1/17 (1400) depth = 12.90 ft.
1/18 (0905) depth = 12.04 ft.
1/20 (0838) depth = 11.65 ft.
1/21 (0913) depth = 12.19 ft., rate = 500 ml/min.
1/23 (1330) depth = 11.55 ft., rate = 300 ml/min.
1/25 (0900) depth = 11.75 ft., rate = 300 ml/min.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW45-3

WELL DEVELOPMENT REPORT

ENGINEERING-SCIENCE, INC.	CLIENT: USACOE	WELL #: MW45-4

PROJECT : 10 SWMU ESI SEAD-45
LOCATION: Seneca Army Depot, Romulus, NY

DATE: 11/12/93
PROJECT NO. : 720477-01000

DRILLING METHOD (s): Hollow Stem Auger
PUMP METHOD (s): Peristaltic Pump
SURGE METHOD (s): Teflon Bailer
INSTALLATION DATE: 11/22/93

INSPECTOR: BH
CONTRACTOR:
CREW: UXB
START DEVELOPMENT DATE: 11/12/93
END DEVELOPMENT DATE: 11/12/93

WATER DEPTH (TOC): 6.64 ft
WELL DIA. (ID CASING): 0.167 ft
BORING DIAMETER: 0.708 ft

INSTALLED POW DEPTH(TOC): ft
MEASURED POW DEPTH(TOC): 9.74 ft
SILT THICKNESS: ft
POW AFTER DEVELOPMENT: ft

DIAMETER FACTORS (GAL/FT):

DIAMETER (IN):	2	3	4	5	6	7	8	8.5	9	10	11	12
GALLONS/ FT:	0.163	0.367	0.654	1.02	1.47	2.00	2.61	2.95	3.30	4.08	4.93	5.87

STANDING VOLUME INSIDE WELL = WATER COLUMN X WELL DIAMETER FACTOR = 0.5 GAL. = A
A = 3.1 * 0.163

STANDING WATER IN ANNULAR SPACE =
WATER COL. BELOW SEAL(ft) X (BORING DIAM. FACTOR – WELL DIAM. FACTOR) X 0.3 = 2.59 GAL. = B
B = 3.1 * (2.95 – 0.163) * 0.3

SINGLE STANDING WATER VOLUME = A + B = ... 3.09 GAL. = C

MINIMUM VOLUME TO BE REMOVED = 5 X C ..... 15.45 GALS.
= 3 X C 9.27 GALS.

ACTIVITY	START TIME	END TIME	ELAPSED TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP °C	COLOR	Turbidity NTU	Water Depth (TOC) FT
1/12 SURGE 1st volume	1030	1100	30	5.0	7.36	600	4.5	dk brn	NA	7.58
PUMP 2nd volume	1114	1125	16	3.11	7.28	600	5.5	p. clear	31.1	7.80
PUMP 3rd volume	1135	1150	15	4.0	7.37	650	6.0	cloudy	242	7.90
PUMP 4th volume	1153	1203	10	5.0	7.34	650	6.0	clear	26.0	7.80
PUMP 5th volume	1210	1220	10	3.5	7.27	650	6.0	clear	16.1	7.90
PUMP 6th volume	1220	1230	10	4.0	7.35	650	6.0	clear	2.29	7.80
				COMPLETE						
TOTALS/FINAL				24.6				clear	2.29	

COMMENTS: 1/12 Well is very silty; probe is covered with mud. Bailed first volume. At 2.5 gallons, NTU = 326.
SECOND volume flow rate = 575 ml/min, well maintained level.
3rd through 6th volume, rate = 1 L/min. FOURTH volume : clears after 2.5 gals.

SEE MASTER ACRONYM LIST FOR COMPLETE LISTING OF ABBREVIATIONS WELL #: MW45-4

APPENDIX E

ANALYTICAL RESULTS

- SWMU-4
- SWMU-16
- SWMU-17
- SWMU-24
- SWMU-25
- SWMU-26
- SWMU-45
- QC Rinsates and Trip Blanks

Data Qualifiers

DATA QUALIFIERS

U - The analyte was not detected.

UJ - The analyte was not detected; however, the associated reporting limit is approximate.

J - The analyte was positively identified; however, QC results indicate that the reported concentration may not be accurate and is therefore an estimate.

R - The analyte was rejected due to laboratory QC deficiencies, sample preservation problems, or holding time exceedance. The presence or absence of the analyte cannot be determined.

The following refer particularly to PCBs:

UN - The analyte was unidentified. Peaks were found, but the laboratory was unable to identify the specific analyte. Therefore, the concentration was totalled under the analyte labeed with NJ.

NJ - The analyte was tentatively identified.

SEAD-4

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-2	0-2
	SAMPLE DATE	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/06/93	12/06/93
	ES ID	SS4-1	SS4-2	SS4-3	SS4-4	SS4-5	SS4-6	SS4-7	SB4-1.1	SB4-1.5
	LAB ID	206836	206837	206838	206839	206840	206841	206842	206265	206268
OUND	UNITS									SB4-1.1DUP
CS										
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
e	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
e	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
e (total)	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
e	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
ne	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
le	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
ane	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
ne	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
ropene	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
hane	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
ne	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
opropene	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
anone	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
oethane	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	14 U	12 U	13 U	14 U	13 U	13 U	24 U	12 U	12 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	61 U	60 U	63 U	63 U	61 U	67 U	110 UJ	59 U	60 U
	ug/Kg	61 U	60 U	63 U	63 U	61 U	67 U	110 UJ	59 U	60 U
	ug/Kg	6.1 U	6 U	6.3 U	6.3 U	6.1 U	6.7 U	11 UJ	5.9 U	6 U
	ug/Kg	6.1 U	6 U	6.3 U	6.3 U	6.1 U	6.7 U	11 UJ	5.9 U	6 U
	ug/Kg	150 U	150 U	150 U	150 U	150 U	160 U	260 UJ	150 U	150 U
	ug/Kg	6.1 U	6 U	6.3 U	6.3 U	6.1 U	6.7 U	11 UJ	5.9 U	6 U
	ug/Kg	61 U	60 U	63 U	63 U	61 U	67 U	110 UJ	59 U	60 U
	ug/Kg	31 U	30 U	32 U	32 U	31 U	34 U	54 UJ	30 U	30 U
	ug/Kg	6100 U	6000 U	6300 U	6300 U	6100 U	6700 U	11000 UJ	5900 U	6000 U
	ug/Kg	6100 U	6000 U	6300 U	6300 U	6100 U	6700 U	11000 UJ	5900 U	6000 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
ene	ug/Kg	120 J	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
e	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
ne	ug/Kg	72 J	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
itrotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
itrotoluene	ug/Kg	90 J	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 UJ	130 U	130 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-2	0-2
	SAMPLE DATE	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/06/93	12/06/93
	ES ID	SS4-1	SS4-2	SS4-3	SS4-4	SS4-5	SS4-6	SS4-7	SB4-1.1	SB4-1.5
	LAB ID	206836	206837	206838	206839	206840	206841	206842	206265	206268
OUND	UNITS									SB4-1.1DUP
GANICS										
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ether	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ne	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ne	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ne	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
opropane)	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
propylamine	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
l	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
y) methane	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
l	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
zene	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ne	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ylphenol	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ne	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ntadiene	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
nol	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
nol	ug/Kg	980 U	980 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
ne	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	980 U	980 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	980 U	980 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	980 U	980 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
	ug/Kg	980 U	980 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
henylether	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	980 U	960 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
thylphenol	ug/Kg	980 U	960 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
amine	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
henylether	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
e	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	980 U	960 U	1000 U	1000 U	980 U	1100 U	1700 UJ	940 U	950 U
	ug/Kg	110 J	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	25 J	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
te	ug/Kg	85 J	400 U	410 U	410 U	400 U	440 U	720 UJ	56 J	50 J
	ug/Kg	230 J	18 J	410 U	19 J	400 U	23 J	64 J	390 U	390 U
	ug/Kg	210 J	400 U	410 U	410 U	400 U	440 U	66 J	390 U	390 U
te	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
dine	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
e	ug/Kg	110 J	400 U	410 U	410 U	400 U	440 U	48 J	390 U	390 U
	ug/Kg	140 J	400 U	410 U	410 U	400 U	440 U	67 J	390 U	390 U
nthalate	ug/Kg	45 J	400 U	410 U	23 J	33 J	440 U	86 J	390 U	390 U
te	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ne	ug/Kg	150 J	400 U	410 U	24 J	400 U	440 U	90 J	390 U	390 U
ne	ug/Kg	65 J	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
	ug/Kg	100 J	400 U	410 U	410 U	400 U	440 U	56 J	390 U	390 U
yrene	ug/Kg	75 J	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
ene	ug/Kg	400 U	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U
e	ug/Kg	66 J	400 U	410 U	410 U	400 U	440 U	720 UJ	390 U	390 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
	SAMPLE DATE	11/02/93	11/02/93	11/02/93	12/14/93	12/14/93	12/14/93	12/14/93	12/14/93	12/14/93
	ES ID	SD4-1	SD4-2	SD4-3	SD4-4	SD4-5	SD4-6	SD4-7	SD4-8	SD4-9
	LAB ID	203271	203272	203273	206905	206906	206907	206908	206909	206910
OUND	UNITS									
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
dane)	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	2.5 J	7.1 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	2.9 U	3.3 U	4 UJ	2.7 U	5 UJ	7.1 UJ
	ug/Kg	12 UJ	5.8 U	4.1 U	5.7 U	6.3 U	7.9 UJ	5.2 U	4.6 J	14 UJ
	ug/Kg	12 UJ	4.1 J	4.1 U	9.4 J	6.3 U	7.9 UJ	9.8 J	86 J	14 UJ
	ug/Kg	12 UJ	5.8 U	4.1 U	5.7 U	6.3 U	7.9 UJ	5.2 U	9.7 UJ	14 UJ
	ug/Kg	12 UJ	5.8 U	4.1 U	5.7 U	6.3 U	7.9 UJ	5.2 U	9.7 UJ	14 UJ
	ug/Kg	12 UJ	5.8 U	4.1 U	5.1 J	6.3 U	7.9 UJ	9.1 J	90 J	14 UJ
	ug/Kg	12 UJ	5.3 U	4.1 U	5.7 U	6.3 U	7.9 UJ	5.2 U	9.7 UJ	14 UJ
	ug/Kg	12 UJ	5.8 U	4.1 U	5.7 U	6.3 U	7.9 UJ	5.2 U	9.7 UJ	14 UJ
	ug/Kg	61 UJ	30 U	21 U	29 U	33 U	40 UJ	27 U	50 UJ	71 UJ
	ug/Kg	12 UJ	5.8 U	4.1 U	5.7 U	6.3 U	7.9 UJ	5.2 U	9.7 UJ	14 UJ
	ug/Kg	12 UJ	3 J	4.1 U	5.7 U	6.3 U	7.9 UJ	3.2 J	11 J	14 UJ
	ug/Kg	6.1 UJ	3 U	2.1 U	4.5 J	3.3 U	4 UJ	7.5 J	12 J	18 J
	ug/Kg	6.1 UJ	3 U	2.1 U	3.2 J	3.3 U	4 UJ	6.8 J	11 J	12 J
	ug/Kg	610 UJ	300 U	210 U	290 U	330 U	400 UJ	270 U	500 UJ	710 UJ
	ug/Kg	120 UJ	58 U	41 U	57 U	63 U	79 UJ	52 U	97 UJ	140 UJ
	ug/Kg	240 UJ	120 U	83 U	120 U	130 U	160 UJ	110 U	200 UJ	280 UJ
	ug/Kg	120 UJ	58 U	41 U	57 U	63 U	79 UJ	52 U	97 UJ	140 UJ
	ug/Kg	120 UJ	58 U	41 U	57 U	63 U	79 UJ	52 U	97 UJ	140 UJ
	ug/Kg	120 UJ	58 U	41 U	57 U	63 U	79 UJ	52 U	97 UJ	140 UJ
	ug/Kg	120 UJ	280	29 J	360 J	130 J	79 UJ	95	430 J	74 J
	ug/Kg	120 UJ	58 U	41 U	57 U	63 U	79 UJ	46 J	230 J	140 UJ
	mg/Kg	17500 J	12000	15000	19700	18200	16500 J	9720	13000 J	10200 J
	mg/Kg	24.5 UJ	30.1	50.4	7.2 UJ	7 J	82.7 J	36.2 J	14.1 J	14.9 UJ
	mg/Kg	7.4 J	3.8	8.1	4.5	5.2	5.6 J	5.9	4.9 J	8 J
	mg/Kg	102 J	61.3	68.8	121	130	120 J	311	121 J	150 J
	mg/Kg	0.58 J	0.54 J	0.65 J	1 J	0.99 J	0.82 J	0.91 J	0.87 J	0.66 J
	mg/Kg	1.5 UJ	0.92 U	0.59 U	3.1	2.8	0.78 UJ	34.1	8.3 J	8.6 J
	mg/Kg	68100 J	26200	11800	13600	19800	7720 J	127000	15500 J	33700 J
	mg/Kg	536 J	2230	3310	89.3 J	59.9 J	4170 J	61.3	49.7 J	29.9 J
	mg/Kg	14.1 J	9.5 J	12.4	17.3	15.1	11.3 J	14 J	12.2 J	11.6 J
	mg/Kg	411 J	1560	2640	46.5 J	33 J	497 J	112	151 J	94 J
	mg/Kg	25400 J	21100	29200	35200	37200	30200 J	23300	24700 J	27000 J
	mg/Kg	13.5 J	18.6	16.6	535 R	236 R	30.7 J R	254	374 J	117 J
	mg/Kg	7630 J	4630	6070	9130	7750	4420 J	4220	5080 J	4980 J
	mg/Kg	569 J	363	430	299	337	525 J	1790	274 J	381 J
	mg/Kg	0.07 J	0.16	0.13	0.07 J	0.04 U	0.55 J	0.55	0.52 J	0.27 J
	mg/Kg	32.8 J	26.5	33.4	53.1	47.7	27 J	26.7	42.4 J	33.9 J
	mg/Kg	2760 J	1640	1410	2540	1580	1660 J	1370 J	1750 J	1690 J
	mg/Kg	0.64 UJ	0.27 U	0.26 U	0.93 J	0.53 J	0.56 J	2.1	2.2 J	2.5 J
	mg/Kg	3.1 UJ	1.9 U	1.2 U	1.4 U	1.2 U	1.7 J	1.2 U	1.9 UJ	2.9 UJ
	mg/Kg	207 J	97 J	78 J	164 J	127 J	96.3 J	575 J	183 J	225 J
	mg/Kg	0.7 UJ	0.29 U	0.28 U	0.25 U	0.27 U	0.55 UJ	0.35 U	0.54 UJ	0.83 UJ
	mg/Kg	28.2 J	19.5	23.7	35.6	27.7	35.1 J	29.6	49.9 J	29.1 J
	mg/Kg	180 J	526	630	667	674	330 J	685	484 J	363 J
	mg/Kg	1.6 UJ	0.78 U	0.6 U	0.85 U	0.99 U	1.2 UJ	0.75 U	1.5 UJ	1.9 UJ
ogen	mg/Kg	0.05	0.02 U	0.02	0.05	0.02	0.05	0.02 U	0.03 U	0.04 U
	%W/W	NS	NS	NS	57.5	51.5	42.2	62.8	33.9	24.5
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-2	0-2
	SAMPLE DATE	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/13/93	12/06/93	12/06/93
	ES ID	SS4-1	SS4-2	SS4-3	SS4-4	SS4-5	SS4-6	SS4-7	SB4-1.1	SB4-1.5
	LAB ID	206836	206837	206838	206839	206840	206841	206842	206265	206266
OUND	UNITS									SB4-1.1DUP
	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
ane)	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	2.2 J	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	2.1 U	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	4 U	4 U	4.1 U	4.1 U	4 U	5.4 J	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	8.5 J	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	4 U	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	3.1 J	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	2.5 J	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	3.8 J	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	6.2 J	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	21 U	20 U	21 U	21 U	21 U	23 U	37 UJ	20 UJ	20 U
	ug/Kg	4 U	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	4 U	4 U	4.1 U	4.1 U	4 U	4.4 U	7.2 UJ	3.9 UJ	3.9 U
	ug/Kg	4.9 J	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	1.1 J	2 U	2.1 U	2.1 U	2.1 U	2.3 U	3.7 UJ	2 UJ	2 U
	ug/Kg	210 U	200 U	210 U	210 U	210 U	230 U	370 UJ	200 UJ	200 U
	ug/Kg	40 U	40 U	41 U	41 U	40 U	44 U	72 UJ	39 UJ	39 U
	ug/Kg	82 U	81 U	84 U	84 U	82 U	89 U	150 UJ	79 UJ	80 U
	ug/Kg	40 U	40 U	41 U	41 U	40 U	44 U	72 UJ	39 UJ	39 U
	ug/Kg	40 U	40 U	41 U	41 U	40 U	44 U	72 UJ	39 UJ	39 U
	ug/Kg	40 U	40 U	41 U	41 U	40 U	44 U	72 UJ	39 UJ	39 U
	ug/Kg	250 J	40 U	41 U	38 J	26 J	44 U	70 J	39 UJ	39 U
	ug/Kg	40 U	40 U	41 U	41 U	40 U	44 U	110 J	39 UJ	39 U
	mg/Kg	15600	18700	10300	15100	15900	18800	14100 J	14600	21000
	mg/Kg	3.9 UJ	4.3 UJ	37.1 J	76.9 J	96.1 J	5.9 J	7.8 UJ	4.8 UJ	3.8 UJ
	mg/Kg	5.9	5.9	7	6.1	9.8	7	13.1 J	6.2	4.2
	mg/Kg	62	76.1	34.4	56.2	92.1	129	277 J	72	97.7
	mg/Kg	0.69 J	0.84 J	0.53 J	0.7 J	0.73 J	1 J	1.6 J	0.73 J	0.64 J
	mg/Kg	0.38 U	0.42 U	0.36 U	0.51 U	0.48 U	0.54 U	1.8 J	0.47 U	0.37 U
	mg/Kg	14300	3480	11200	6930	7210	5410	196000 J	4280	2460
	mg/Kg	25.3 J	56.1 J	1790 J	4200 J	4870 J	395 J	34.1 J	23.2	27.9
	mg/Kg	12.7	15.3	10.2	12.8	14.9	17.7	12.4 J	11.3	5.9 J
	mg/Kg	20 J	40.6 J	1350 J	3410 J	3120 J	234 J	335 J	14.1	15.1
	mg/Kg	29800	33600	21900	31000	31000	34300	64600 J	27500	19500
	mg/Kg	23.7 R	12 R	27.3 R	19 R	27.2 R	22.7 R	102 J R	17.7 J	9.8 J
	mg/Kg	6850	6100	4400	5950	5470	5030	8550 J	4270	4460
	mg/Kg	708	638	335	339	533	1080	1220 J	615 J R	119 J R
	mg/Kg	0.02 J	0.04 J	0.15	0.21	0.15	0.04 J	0.27 J	0.05 J	0.04 J
	mg/Kg	36.8	40.1	25.9	34.3	35.3	37.2	228 J	27.6	25.1
	mg/Kg	1950	1930	861	1310	1870	2080	2340 J	1250	2490
	mg/Kg	0.27 J	0.15 U	0.2 J	0.16 J	0.21 J	0.55 J	3.4 J	0.4 J	0.23 J
	mg/Kg	0.76 U	0.84 U	0.72 U	1 U	0.96 U	1.1 U	1.5 UJ	0.93 U	0.74 U
	mg/Kg	61.8 J	49.2 J	57.8 J	50.4 J	47.7 J	54.9 J	1270 J	43.6 U	39.2 J
	mg/Kg	0.21 U	0.26 U	0.25 U	0.18 U	0.26 U	0.3 U	0.49 UJ	0.23 U	0.23 U
	mg/Kg	22.9	27.2	14.7	24.1	28.7	31.7	1250 J	28.6	31
	mg/Kg	65.9	96.5	566	755	636	140	859 J	79.6	72.1
	mg/Kg	0.55 U	0.57 U	0.6 U	0.62 U	0.58 U	0.58 U	0.69 UJ	0.52 U	0.53 U
gen	mg/Kg	0.05	0.1	0.1	1.51	0.07	0.08	0.11	0.07	0.04
	%W/W	82	83.2	79.8	79.7	81.8	75.1	45.8	85.2	83.8
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	8-10	0-2	2-4	0-2	4-6	6-8	0-2	0-2	0-2
	SAMPLE DATE	12/06/93	11/10/93	11/10/93	11/10/93	11/10/93	11/10/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-1.6	SB4-2.1	SB4-2.2	SB4-3.1	SB4-3.3	SB4-3.4	SB4-4.1	SB4-4.1RE	SB4-4.5
	LAB ID	206269	204099	204100	204101	204102	204103	206144	206144	206148
UND	UNITS									SB4-4.1DUP
CS										
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	19 U	11 U	11 U	11 U	10 U	2 J	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
(total)	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
ne	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
e	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
ane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
ne	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
opene	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
ane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
ne	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
propene	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
anone	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
ethane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	13 U	NS	13 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	55 U	62 U	53 U	55 U	55 UJ	54 U	69 U	NS	64 U
	ug/Kg	55 U	62 U	53 U	55 U	55 UJ	54 U	69 U	NS	64 U
	ug/Kg	5.5 U	6.2 U	5.3 U	5.5 U	5.5 UJ	5.4 U	6.9 U	NS	6.4 U
	ug/Kg	5.5 U	6.2 U	5.3 U	5.5 U	5.5 UJ	5.4 U	6.9 U	NS	6.4 U
	ug/Kg	140 U	150 U	130 U	140 U	130 UJ	130 U	170 U	NS	160 U
	ug/Kg	5.5 U	6.2 U	5.3 U	5.5 U	5.5 UJ	5.4 U	23	NS	6.4 U
	ug/Kg	55 U	62 U	53 U	55 U	55 UJ	54 U	69 U	NS	64 U
	ug/Kg	28 U	31 U	27 U	28 U	28 UJ	27 U	35 U	NS	32 U
	ug/Kg	5500 U	6200 U	5300 U	5500 U	5500 UJ	5400 U	6900 U	NS	6400 U
	ug/Kg	5500 U	6200 U	5300 U	5500 U	5500 UJ	5400 U	6900 U	NS	6400 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
ne	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
e	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
trotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
trotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NS	130 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
DEPTH (FEET)	8-10	0-2	2-4	0-2	4-6	6-8	0-2	0-2	0-2
SAMPLE DATE	12/06/93	11/10/93	11/10/93	11/10/93	11/10/93	11/10/93	12/05/93	12/05/93	12/05/93
ES ID	SB4-1.6	SB4-2.1	SB4-2.2	SB4-3.1	SB4-3.3	SB4-3.4	SB4-4.1	SB4-4.1RE	SB4-4.5
LAB ID	206269	204099	204100	204101	204102	204103	206144	206144	206148
UNITS									SB4-4.1DUP
OUND									
GANICS									
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ether ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
propropane) ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
propylamine ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
l ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
y) methane ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
l ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
zene ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ylphenol ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ntadiene ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
nol ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
nol ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
ne ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
henylether ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
thylphenol ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
amine ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
henylether ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
e ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	880 U	970 U	830 U	870 U	860 U	850 U	1100 U	1100 UJ	2000 U
ug/Kg	360 U	400 U	340 U	28 J	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
te ug/Kg	48 J	28 J	18 J	29 J	19 J	19 J	450 U R	450 UJ	850 U R
ug/Kg	360 U	400 U	340 U	62 J	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	52 J	350 U	350 U	450 U	450 UJ	850 U
te ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U R	450 UJ	850 U R
dine ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
e ug/Kg	360 U	400 U	340 U	28 J	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	39 J	350 U	350 U	450 U	450 UJ	850 U
hthalate ug/Kg	360 U	1900	1100	2000	1500	1400	180 J R	47 J	540 J R
te ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	32 J	350 U	350 U	450 U	450 UJ	850 U
ne ug/Kg	360 U	400 U	340 U	31 J	350 U	350 U	450 U	450 UJ	850 U
ug/Kg	360 U	400 U	340 U	27 J	350 U	350 U	450 U	450 UJ	850 U
yrene ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ene ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U
ac ug/Kg	360 U	400 U	340 U	360 U	350 U	350 U	450 U	450 UJ	850 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	8-10	0-2	2-4	0-2	4-6	6-8	0-2	0-2	0-2
	SAMPLE DATE	12/06/93	11/10/93	11/10/93	11/10/93	11/10/93	11/10/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-1.6	SB4-2.1	SB4-2.2	SB4-3.1	SB4-3.3	SB4-3.4	SB4-4.1	SB4-4.1RE	SB4-4.5
	LAB ID	206269	204099	204100	204101	204102	204103	206144	206144	206148 SB4-4.1DUP
OUND	UNITS									
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
lane)	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.2 J	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	19 UJ	21 U	18 U	19 U	18 U	16 U	23 U	NS	22 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	3.6 UJ	4.1 U	3.5 U	3.6 U	3.6 U	3.5 U	4.5 U	NS	4.2 UJ
	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
e	ug/Kg	1.9 UJ	2.1 U	1.8 U	1.9 U	1.8 U	1.8 U	2.3 U	NS	2.2 UJ
	ug/Kg	190 UJ	210 U	180 U	190 U	180 U	180 U	230 U	NS	220 UJ
	ug/Kg	38 UJ	41 U	35 U	36 U	36 U	35 U	45 U	NS	42 UJ
	ug/Kg	74 UJ	83 U	71 U	74 U	73 U	71 U	91 U	NS	85 UJ
	ug/Kg	36 UJ	41 U	35 U	36 U	36 U	35 U	45 U	NS	42 UJ
	ug/Kg	36 UJ	41 U	35 U	36 U	36 U	35 U	45 U	NS	42 UJ
	ug/Kg	36 UJ	41 U	27 J	36 U	36 U	35 U	45 U	NS	42 UJ
	ug/Kg	38 UJ	41 U	35 U	28 J	36 U	35 U	29 J	NS	42 UJ
	ug/Kg	36 UJ	41 U	35 U	36 U	36 U	35 U	45 U	NS	42 UJ
	mg/Kg	19200	16300	15600	9590	9680	9730	16100	NS	16200
	mg/Kg	2.8 UJ	10.5 U	7.6 U	5.8 U	10.1 U	5.8 U	16.1 J	NS	57.8 J
	mg/Kg	21.5	5.8 J	4.2 J	4.9 J	6.8 J	9.5 J	6.9	NS	7.1
	mg/Kg	81.2	133	46	29.8	49.6	39.7	107	NS	122
	mg/Kg	1	1	0.72 J	0.48 J	0.43 J	0.52 J	0.8 J	NS	0.8 J
	mg/Kg	0.27 U	0.66 U R	0.46 U R	0.37 U R	0.63 U R	0.36 U R	0.51 U	NS	0.34 U
	mg/Kg	14400	2900	12700	24700	59600	31400	4500	NS	6840
	mg/Kg	32.7	22.9	27.5	19.1	17.3	17.2	936 R	NS	2670 R
	mg/Kg	29.1	12.5	14.3	11.1	9.9	12.5	11.8 J	NS	15.2
	mg/Kg	21.6	17 J	27.5 J	27.8 J	19.1 J	17.5 J	1290 J	NS	1520 J
	mg/Kg	37900	28600	33900	21900	22300	21200	28400	NS	33700
	mg/Kg	9.1 J	14.4	8.3	19.7	5.4	10.1	20.9 J	NS	19.1 J
	mg/Kg	8040	3770	7160	4920	12100	5610	4380	NS	5110
	mg/Kg	795 R	1340	436	338	388	373	564	NS	917
	mg/Kg	0.04 J	0.03 U	0.02 U	0.03 J	0.02 U	0.04 U	0.03 U	NS	0.04 J
	mg/Kg	62.3	27.3	42.7	36.6	28.6	28.5	39.6	NS	35.4
	mg/Kg	2030	1270	1210	923	1090	1050	1510	NS	1430
	mg/Kg	0.14 U	0.32 J	0.21 UJ	0.36 J	0.2 UJ	0.22 UJ	0.73 J	NS	0.76 J
	mg/Kg	0.64 J	1.3 UJ	0.97 UJ	0.74 UJ	1.3 UJ	0.73 UJ	1 U	NS	0.68 U
	mg/Kg	91.6 J	39.3 J	71.1 J	76.8 J	126 J	96 J	51.3 J	NS	49.2 J
	mg/Kg	0.24 U	0.23 UJ	0.22 UJ	0.24 UJ	0.21 UJ	0.24 UJ	0.18 U	NS	0.24 U
	mg/Kg	29.3	29.3	22.5	15	15.5	13.8	25.3	NS	27.7
	mg/Kg	115	61.3 J	95 J	45.5 J	87.3 J	69.4 J	1010	NS	423
	mg/Kg	0.47 U	0.61 U	0.49 U	0.52 U	0.51 U	0.52 U	0.73 U	NS	0.63 U
gen	mg/Kg	0.02	0.58	0.04	0.15	0.06	0.05	0.05	NS	0.01
	%W/W	91.1	90.8	94.9	90.8	90.9	93.6	73.3	NS	78.3
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	4-6	6-8	6-8	0-2	0-2	2-4	2-4	0-2
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/06/93
	ES ID	SB4-4.2	SB4-4.2RE	SB4-4.3	SB4-4.3RE	SB4-5.1	SB4-5.1RE	SB4-5.2	SB4-5.2RE	SB4-6.1
	LAB ID	206145	206145	206147	206147	206149	206149	206150	206150	206270
UND	UNITS									
CS										
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
(total)	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
ne	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
e	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
ane	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
e	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
opene	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
ane	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
ne	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
propene	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
none	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
ethane	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	11 U	NS	11 U	NS	11 U	NS	11 U	NS	13 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	54 U	NS	55 U	NS	59 U	NS	58 U	NS	67 U
	ug/Kg	54 U	NS	55 U	NS	59 U	NS	58 U	NS	67 U
	ug/Kg	5.4 U	NS	5.5 U	NS	5.9 U	NS	5.8 U	NS	6.7 U
	ug/Kg	5.4 U	NS	5.5 U	NS	5.9 U	NS	5.8 U	NS	6.7 U
	ug/Kg	130 U	NS	140 U	NS	150 U	NS	140 U	NS	160 U
	ug/Kg	5.4 U	NS	5.5 U	NS	5.9 U	NS	5.8 U	NS	6.7 U
	ug/Kg	54 U	NS	55 U	NS	59 U	NS	58 U	NS	67 U
	ug/Kg	27 UJ	NS	28 U	NS	30 U	NS	29 U	NS	34 U
	ug/Kg	5400 U	NS	5500 U	NS	5900 U	NS	5800 U	NS	6700 U
	ug/Kg	5400 U	NS	5500 U	NS	5900 U	NS	5800 U	NS	6700 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ne	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
trotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
trotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	4-6	6-8	6-8	0-2	0-2	2-4	2-4	0-2
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/08/93
	ES ID	SB4-4.2	SB4-4.2RE	SB4-4.3	SB4-4.3RE	SB4-5.1	SB4-5.1RE	SB4-5.2	SB4-5.2RE	SB4-6.1
	LAB ID	206145	206145	206147	206147	206149	206149	206150	206150	206270
OUND	UNITS									
GANICS										
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ether	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
oropropane)	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	350 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
propylamine	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
d	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
y) methane	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
l	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
zene	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
nylphenol	ug/Kg	380 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ntadiene	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
nol	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
nol	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	670 U	880 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	30 J	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
	ug/Kg	380 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	380 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
phenylether	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
ethylphenol	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
amine	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
phenylether	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
e	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
	ug/Kg	670 U	860 UJ	890 U	890 UJ	940 U	910 UJ	930 U	900 UJ	1100 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	45 J	120 J	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	33 J	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ate	ug/Kg	360 U R	350 UJ	370 U R	370 UJ	390 U R	380 UJ	380 U R	370 UJ	51 J
	ug/Kg	360 U	350 UJ	370 U	370 UJ	60 J	280 J	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	140 J	380 J	380 U	370 UJ	440 U
te	ug/Kg	360 U R	350 UJ	370 U R	370 UJ	390 U R	380 UJ	380 U R	370 UJ	440 U
idine	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
e	ug/Kg	360 U	350 UJ	370 U	370 UJ	53 J	210 J	380 U	370 UJ	440 U
	ug/Kg	360 U	350 UJ	370 U	370 UJ	74 J	260 J	380 U	370 UJ	440 U
hthalate	ug/Kg	66 J R	110 J	130 J R	370 UJ	31 J R	37 J	380 U R	370 UJ	440 U
te	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	380 UJ	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	41 J	130 J	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	52 J	150 J	380 U	370 UJ	440 U
	ug/Kg	380 U	350 UJ	370 U	370 UJ	53 J	160 J	380 U	370 UJ	440 U
yrene	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	59 J	380 U	370 UJ	440 U
cene	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	32 J	380 U	370 UJ	440 U
ne	ug/Kg	360 U	350 UJ	370 U	370 UJ	390 U	120 J	380 U	370 UJ	440 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	4-6	6-8	6-8	0-2	0-2	2-4	2-4	0-2
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/06/93
	ES ID	SB4-4.2	SB4-4.2RE	SB4-4.3	SB4-4.3RE	SB4-5.1	SB4-5.1RE	SB4-5.2	SB4-5.2RE	SB4-6.1
	LAB ID	206145	206145	206147	206147	206149	206149	206150	206150	206270
OUND	UNITS									
	ug/Kg	1.8 U	NS	1.9 U	NS	9.8 U	NS	2 U	NS	2.3 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	9.8 U	NS	2 U	NS	2.3 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	5.9 J	NS	2 U	NS	2.3 UJ
dane)	ug/Kg	1.8 U	NS	1.9 U	NS	9.8 U	NS	2 U	NS	2.3 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	9.8 U	NS	2 U	NS	2.3 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	8.2 J	NS	2 U	NS	2.3 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	9.8 U	NS	2 U	NS	2.3 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	11	NS	2 U	NS	2.3 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	21 J	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	34 J	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	18 U	NS	19 U	NS	98 U	NS	20 U	NS	23 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	3.6 U	NS	3.7 U	NS	19 U	NS	3.8 U	NS	4.4 UJ
	ug/Kg	1.8 U	NS	1.9 U	NS	10 J	NS	2 U	NS	2.3 UJ
e	ug/Kg	1.8 U	NS	1.9 U	NS	9.8 U	NS	2 U	NS	2.3 UJ
	ug/Kg	180 U	NS	190 U	NS	980 U	NS	200 U	NS	230 UJ
	ug/Kg	36 U	NS	37 U	NS	190 U	NS	38 U	NS	44 UJ
	ug/Kg	73 U	NS	74 U	NS	390 U	NS	77 U	NS	89 UJ
	ug/Kg	36 U	NS	37 U	NS	190 U	NS	38 U	NS	44 UJ
	ug/Kg	36 U	NS	37 U	NS	190 U	NS	38 U	NS	44 UJ
	ug/Kg	36 U	NS	37 U	NS	190 U	NS	38 U	NS	44 UJ
	ug/Kg	36 U	NS	37 U	NS	1600	NS	38 U	NS	44 UJ
	ug/Kg	36 U	NS	37 U	NS	190 U	NS	38 U	NS	44 UJ
	mg/Kg	9500	NS	10200	NS	15000	NS	15700	NS	17100
	mg/Kg	3.4 UJ	NS	4.4 UJ	NS	6.3 J	NS	3.5 J	NS	4.8 UJ
	mg/Kg	4.5	NS	5	NS	3.3	NS	6.9	NS	7.3
	mg/Kg	45.4	NS	50.5	NS	92.7	NS	99.8	NS	132
	mg/Kg	0.37 J	NS	0.38 J	NS	0.65 J	NS	0.65 J	NS	0.96 J
	mg/Kg	0.33 U	NS	0.42 U	NS	0.66 J	NS	0.3 U	NS	0.46 U
	mg/Kg	65300	NS	61300	NS	42800	NS	55000	NS	3750
	mg/Kg	21.8 R	NS	75.8 R	NS	23.5 R	NS	26.5 R	NS	25.7
	mg/Kg	10.5	NS	9.8 J	NS	12.3	NS	9.5	NS	12.5
	mg/Kg	19.6 J	NS	52.8 J	NS	26.2 J	NS	28.1 J	NS	25.7
	mg/Kg	20500	NS	24400	NS	27900	NS	26700	NS	28600
	mg/Kg	8.7 J	NS	6.8 J	NS	116	NS	11.8 J	NS	18.8 J
	mg/Kg	11700	NS	8390	NS	10200	NS	11800	NS	4560
	mg/Kg	543	NS	540	NS	648	NS	436	NS	1260 R
	mg/Kg	0.03 J	NS	0.04 U	NS	0.03 J	NS	0.04 U	NS	0.06 J
	mg/Kg	24.6	NS	27.2	NS	34.9	NS	32.4	NS	35.2
	mg/Kg	1040	NS	1090	NS	1720	NS	1400	NS	2000
	mg/Kg	0.1 UJ	NS	0.23 J	NS	0.32 J	NS	0.45 J	NS	0.66 J
	mg/Kg	0.67 U	NS	0.85 U	NS	0.75 U	NS	0.6 U	NS	1 J
	mg/Kg	116 J	NS	132 J	NS	90.1 J	NS	106 J	NS	43.7 U
	mg/Kg	0.16 U	NS	0.2 U	NS	0.23 U	NS	0.22 U	NS	0.24 U
	mg/Kg	13.1	NS	14.4	NS	23.8	NS	24.4	NS	29
	mg/Kg	61.6	NS	112	NS	238	NS	67.3	NS	87.4
	mg/Kg	0.62 U	NS	0.54 U	NS	0.59 U	NS	0.58 U	NS	0.6 U
S										
ogen	mg/Kg	0.03	NS	0.01	NS	0.01	NS	0.14	NS	0.16
	%W/W	92.2	NS	89.9	NS	85.1	NS	86.4	NS	75.3
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-2	0-2	4-6	4-6	6-8	6-8	0-2	0-2	2-4
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-7.1	SB4-7.1RE	SB4-7.3	SB4-7.3RE	SB4-7.4	SB4-7.4RE	SB4-8.1	SB4-8.1RE	SB4-8.2
	LAB ID	206151	206151	206152	206152	206153	206153	206154	206154	206155
OUND	UNITS									
ICS										
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
e	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
e	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
e	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
e (total)	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	14
e	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
ane	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
de	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
hane	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
ne	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
ropene	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
hane	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
ane	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
opropene	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
tanone	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
oethane	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	11 U	NS	11 U	NS	12 U	NS	12 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	55 U	NS	57 U	NS	55 U	NS	58 U	NS	58 U
	ug/Kg	55 U	NS	57 U	NS	55 U	NS	58 U	NS	58 U
	ug/Kg	5.5 U	NS	5.7 U	NS	5.5 U	NS	5.8 U	NS	5.8 U
	ug/Kg	5.5 U	NS	5.7 U	NS	5.5 U	NS	5.8 U	NS	5.8 U
	ug/Kg	140 U	NS	140 U	NS	130 U	NS	140 U	NS	140 U
	ug/Kg	5.5 U	NS	5.7 U	NS	5.5 U	NS	5.8 U	NS	5.8 U
	ug/Kg	55 U	NS	57 U	NS	55 U	NS	58 U	NS	58 U
	ug/Kg	28 U	NS	29 U	NS	28 U	NS	29 U	NS	29 U
	ug/Kg	5500 U	NS	5700 U	NS	5500 U	NS	5800 U	NS	5800 U
	ug/Kg	5500 U	NS	5700 U	NS	5500 U	NS	5800 U	NS	5800 U
S										
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ne	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
nitrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
nitrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-2	0-2	4-6	4-6	6-8	6-8	0-2	0-2	2-4
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-7.1	SB4-7.1RE	SB4-7.3	SB4-7.3RE	SB4-7.4	SB4-7.4RE	SB4-8.1	SB4-8.1RE	SB4-8.2
	LAB ID	206151	206151	206152	206152	206153	206153	206154	206154	206155
OUND	UNITS									
GANICS										
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ether	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ne	ug/Kg	370 U	380 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
ene	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
one	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
oropropane)	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
propylamine	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
d	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
y) methane	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ol	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
zene	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ne	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ylphenol	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ne	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ntadiene	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
enol	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
enol	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
ene	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
phenylether	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
ethylphenol	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
amine	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
phenylether	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
e	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	890 U	880 UJ	910 U	890 UJ	870 U	850 UJ	930 U	920 UJ	930 U
	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	380 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ate	ug/Kg	370 U R	360 UJ	380 U R	370 UJ	380 U R	350 UJ	380 U R	380 UJ	380 U R
	ug/Kg	22 J	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	19 J	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
te	ug/Kg	370 U R	360 UJ	380 U R	370 UJ	380 U R	350 UJ	380 U R	380 UJ	380 U R
idine	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
e	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	20 J	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
hthalate	ug/Kg	19 J R	21 J	380 U R	370 UJ	360 U R	350 UJ	380 U R	380 UJ	380 U R
ate	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ne	ug/Kg	20 J	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U
ne	ug/Kg	19 J	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
yrene	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ene	ug/Kg	370 U	360 UJ	380 U	370 UJ	360 U	350 UJ	380 U	380 UJ	380 U
ne	ug/Kg	370 U	360 UJ	380 U	370 UJ	380 U	350 UJ	380 U	380 UJ	380 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-2	0-2	4-6	4-6	6-8	6-8	0-2	0-2	2-4
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-7.1	SB4-7.1RE	SB4-7.3	SB4-7.3RE	SB4-7.4	SB4-7.4RE	SB4-8.1	SB4-8.1RE	SB4-8.2
	LAB ID	206151	206151	206152	206152	206153	206153	206154	206154	206155
OUND	UNITS									
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
dane)	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 J	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	19 U	NS	19 U	NS	18 U	NS	20 U	NS	19 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	3.6 U	NS	3.7 U	NS	3.5 U	NS	3.8 U	NS	3.8 U
	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
e	ug/Kg	1.9 U	NS	1.9 U	NS	1.8 U	NS	2 U	NS	1.9 U
	ug/Kg	190 U	NS	190 U	NS	180 U	NS	200 U	NS	190 U
	ug/Kg	36 U	NS	37 U	NS	35 U	NS	38 U	NS	38 U
	ug/Kg	73 U	NS	76 U	NS	72 U	NS	77 U	NS	77 U
	ug/Kg	36 U	NS	37 U	NS	35 U	NS	38 U	NS	38 U
	ug/Kg	36 U	NS	37 U	NS	35 U	NS	38 U	NS	38 U
	ug/Kg	36 U	NS	37 U	NS	35 U	NS	38 U	NS	38 U
	ug/Kg	36 U	NS	37 U	NS	35 U	NS	38 U	NS	38 U
	ug/Kg	36 U	NS	37 U	NS	35 U	NS	38 U	NS	38 U
	mg/Kg	14600	NS	11400	NS	8410	NS	13300	NS	16700
	mg/Kg	6.4 J	NS	2.9 J	NS	3 J	NS	2.7 UJ	NS	4.2 UJ
	mg/Kg	5.1	NS	3.4	NS	5.7	NS	5.6	NS	5.1
	mg/Kg	61.5	NS	77.3	NS	45.4	NS	69.4	NS	116
	mg/Kg	0.62 J	NS	0.46 J	NS	0.38 J	NS	0.65	NS	0.72 J
	mg/Kg	0.39 U	NS	0.27 U	NS	0.29 U	NS	0.27 J	NS	0.41 U
	mg/Kg	38600	NS	71600	NS	87500	NS	25200	NS	9320
	mg/Kg	25.4 R	NS	21.4 R	NS	14 R	NS	21.4 R	NS	24.9 R
	mg/Kg	12.7	NS	9.1	NS	8.3	NS	11.7	NS	15.3
	mg/Kg	27.5 J	NS	21 J	NS	19.5 J	NS	25.6 J	NS	21.6 J
	mg/Kg	29400	NS	21800	NS	19100	NS	25900	NS	29700
	mg/Kg	16.6 J	NS	9.4 J	NS	16.6 J	NS	19.7 J	NS	10.3 J
	mg/Kg	6650	NS	15200	NS	11900	NS	6380	NS	5870
	mg/Kg	622	NS	423	NS	383	NS	418	NS	1240
	mg/Kg	0.03 J	NS	0.02 U	NS	0.03 U	NS	0.03 J	NS	0.03 J
	mg/Kg	40.2	NS	29.3	NS	22.3	NS	31.7	NS	37.3
	mg/Kg	1420	NS	1470	NS	1030	NS	1470	NS	2090
	mg/Kg	0.36 J	NS	0.11 UJ	NS	0.1 UJ	NS	0.42 J	NS	0.53 J
	mg/Kg	0.79 U	NS	0.55 U	NS	0.57 U	NS	0.52 U	NS	0.82 U
	mg/Kg	100 J	NS	120 J	NS	133 J	NS	64.4 J	NS	53.3 J
	mg/Kg	0.13 U	NS	0.19 U	NS	0.17 U	NS	0.19 U	NS	0.26 U
	mg/Kg	23.4	NS	18.1	NS	13	NS	22	NS	28.7
	mg/Kg	93.2	NS	72.1	NS	84	NS	71.7	NS	73.9
	mg/Kg	0.5 U	NS	0.5 U	NS	0.51 U	NS	0.57 U	NS	0.58 U
s										
ogen	mg/Kg	0.16	NS	0.02	NS	0.01	NS	1	NS	0.36
	%W/W	89.9	NS	88.4	NS	91.9	NS	85.6	NS	85.6
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	4-6	0-2	0-2	2-4	2-4	4-6	4-6	0-2
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/06/93
	ES ID	SB4-8.3	SB4-8.3RE	SB4-9.1	SB4-9.1RE	SB4-9.2	SB4-9.2RE	SB4-9.3	SB4-9.3RE	SB4-10.1
	LAB ID	206156	206156	206157	206157	206158	206158	206159	206159	206272
OUND	UNITS									
CS										
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
e	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
e	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
e (total)	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	2 J	NS	11 U	NS	2 J	NS	3 J	NS	12 U
e	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
ane	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
le	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
hane	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
ne	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
ropene	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
hane	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
ane	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
opropene	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
anone	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
oethane	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	11 U	NS	11 U	NS	12 U	NS	11 U	NS	12 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	56 U	NS	59 U	NS	61 U	NS	54 U	NS	58 U
	ug/Kg	56 U	NS	59 U	NS	61 U	NS	54 U	NS	58 U
	ug/Kg	5.6 U	NS	5.9 U	NS	6.1 U	NS	5.4 U	NS	5.8 U
	ug/Kg	5.6 U	NS	5.9 U	NS	6.1 U	NS	5.4 U	NS	5.8 U
	ug/Kg	140 U	NS	150 U	NS	150 U	NS	130 U	NS	140 U
	ug/Kg	5.6 U	NS	5.9 U	NS	6.1 U	NS	5.4 U	NS	5.8 U
	ug/Kg	56 U	NS	59 U	NS	61 U	NS	54 U	NS	58 U
	ug/Kg	28 U	NS	30 U	NS	31 U	NS	27 U	NS	29 U
	ug/Kg	5600 U	NS	5900 U	NS	6100 U	NS	5400 U	NS	5800 U
	ug/Kg	5600 U	NS	5900 U	NS	6100 U	NS	5400 U	NS	5800 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
one	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	67 J	NS	130 U	NS	130 U
ne	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
itrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
itrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD - 4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	4-6	0-2	0-2	2-4	2-4	4-6	4-6	0-2
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/06/93
	ES ID	SB4-8.3	SB4-8.3RE	SB4-9.1	SB4-9.1RE	SB4-9.2	SB4-9.2RE	SB4-9.3	SB4-9.3RE	SB4-10.1
	LAB ID	206156	206156	206157	206157	206158	206158	206159	206159	206272
OUND	UNITS									
GANICS										
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ether	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	360 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	360 UJ	350 U	340 UJ	390 U
propropane)	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
propylamine	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
d	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
) methane	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
l	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
zene	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ylphenol	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ntadiene	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
nol	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
nol	ug/Kg	880 U	900 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
ne	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	880 U	900 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	45 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	360 U	370 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	880 U	900 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
	ug/Kg	360 U	370 UJ	72 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	900 U	880 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
	ug/Kg	900 U	880 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
	ug/Kg	370 U	360 UJ	33 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
henylether	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	110 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	900 U	880 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
thylphenol	ug/Kg	900 U	880 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
amine	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
henylether	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
e	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	900 U	880 UJ	950 U	950 UJ	980 U	930 UJ	860 U	830 UJ	940 U
	ug/Kg	370 U	360 UJ	1400	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	340 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	160 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
te	ug/Kg	370 U R	360 UJ	34 J R	390 UJ	400 U R	380 UJ	350 U R	340 UJ	58 J
	ug/Kg	370 U	360 UJ	2400	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	1800	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
e	ug/Kg	370 U R	360 UJ	390 U R	390 UJ	400 U R	18 J	350 U R	340 UJ	390 U
dine	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
e	ug/Kg	370 U	360 UJ	1100	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	1000	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
nthalate	ug/Kg	18 J R	360 UJ	42 J R	390 UJ	23 J R	380 UJ	19 J R	340 UJ	390 U
te	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	370 U	360 UJ	730	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ne	ug/Kg	370 U	360 UJ	890	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
	ug/Kg	370 U	360 UJ	880	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
yrene	ug/Kg	370 U	360 UJ	260 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
ene	ug/Kg	370 U	360 UJ	390 U	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U
e	ug/Kg	370 U	360 UJ	270 J	390 UJ	400 U	380 UJ	350 U	340 UJ	390 U

SENECA ARMY DEPOT
SEAD–4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD–4	SEAD–4	SEAD–4	SEAD–4	SEAD–4	SEAD–4	SEAD–4	SEAD–4	SEAD–4
	DEPTH (FEET)	4–6	4–6	0–2	0–2	2–4	2–4	4–6	4–6	0–2
	SAMPLE DATE	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/06/93
	ES ID	SB4–8.3	SB4–8.3RE	SB4–9.1	SB4–9.1RE	SB4–9.2	SB4–9.2RE	SB4–9.3	SB4–9.3RE	SB4–10.1
	LAB ID	206156	206156	206157	206157	206158	206158	206159	206159	206272
OUND	UNITS									
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
dane)	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
e	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	19 U	NS	20 U	NS	21 U	NS	18 U	NS	20 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	3.6 U	NS	3.9 U	NS	4 U	NS	3.5 U	NS	3.9 U
	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
e	ug/Kg	1.9 U	NS	2 U	NS	2.1 U	NS	1.8 U	NS	2 U
	ug/Kg	190 U	NS	200 U	NS	210 U	NS	180 U	NS	200 U
	ug/Kg	36 U	NS	39 U	NS	40 U	NS	35 U	NS	39 U
	ug/Kg	74 U	NS	79 U	NS	82 U	NS	71 U	NS	79 U
	ug/Kg	36 U	NS	39 U	NS	40 U	NS	35 U	NS	39 U
	ug/Kg	36 U	NS	39 U	NS	40 U	NS	35 U	NS	39 U
	ug/Kg	36 U	NS	39 U	NS	40 U	NS	35 U	NS	39 U
	ug/Kg	36 U	NS	39 U	NS	40 U	NS	35 U	NS	39 U
	ug/Kg	36 U	NS	39 U	NS	40 U	NS	35 U	NS	39 U
	mg/Kg	9180	NS	12800	NS	20400	NS	13500	NS	15600
	mg/Kg	2.5 UJ	NS	3.7 J	NS	4.1 UJ	NS	3.3 UJ	NS	4.7 UJ
	mg/Kg	4.9	NS	4.5	NS	6.5	NS	4.6	NS	6.5
	mg/Kg	63.5	NS	94.1	NS	102	NS	51.3	NS	126
	mg/Kg	0.37 J	NS	0.75 J	NS	0.97	NS	0.69 J	NS	0.82 J
	mg/Kg	0.24 U	NS	0.35 U	NS	0.4 U	NS	0.32 U	NS	0.46 U
	mg/Kg	77000	NS	3660	NS	2770	NS	2350	NS	3250
	mg/Kg	14.1 R	NS	17.6 R	NS	33.2 R	NS	23.3 R	NS	178
	mg/Kg	7.9	NS	9	NS	17.3	NS	14.8	NS	19.5
	mg/Kg	21.1 J	NS	13.1 J	NS	24.9 J	NS	11 J	NS	28
	mg/Kg	18500	NS	20600	NS	39000	NS	29600	NS	34700
	mg/Kg	44.2	NS	26.4 J	NS	12.2 J	NS	6.3 J	NS	12.8 J
	mg/Kg	17700	NS	3090	NS	7870	NS	5950	NS	5370
	mg/Kg	420	NS	794	NS	633	NS	252	NS	1390 R
	mg/Kg	0.01 U	NS	0.07 J	NS	0.03 U	NS	0.02 U	NS	0.06 J
	mg/Kg	23.1	NS	16.3	NS	57.1	NS	42.2	NS	51.3
	mg/Kg	1380	NS	1020	NS	1800	NS	980	NS	1170
	mg/Kg	0.22 J	NS	0.47 J	NS	0.47 J	NS	0.11 J	NS	0.23 J
	mg/Kg	0.48 U	NS	0.7 U	NS	0.79 U	NS	0.63 U	NS	0.91 U
	mg/Kg	134 J	NS	49.1 J	NS	44.1 J	NS	39.3 J	NS	42.9 U
	mg/Kg	0.14 U	NS	0.23 U	NS	0.21 U	NS	0.17 U	NS	0.27 U
	mg/Kg	14.8	NS	22.6	NS	28.4	NS	17.8	NS	26.9
	mg/Kg	58.5	NS	56.6	NS	93.6	NS	80.5	NS	89.8
	mg/Kg	0.52 U	NS	0.56 U	NS	0.59 U	NS	0.5 U	NS	0.57 U
s										
ogen	mg/Kg	0.04	NS	0.86	NS	0.44	NS	0.02	NS	0.13
	%W/W	89.1	NS	83.9	NS	81.6	NS	92.9	NS	84.6
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX LOCATION DEPTH (FEET) SAMPLE DATE ES ID LAB ID	SOIL SEAD-4 4-6 12/06/93 SB4-10.3 206274	SOIL SEAD-4 3 11/10/93 TP4-1 204020- 204022	SOIL SEAD-4 3 11/10/93 TP4-2 204023- 204025	SOIL SEAD-4 4 12/05/93 TP4-3 206190	SOIL SEAD-4 4 12/05/93 TP4-4 206191	SOIL SEAD-4 4 12/05/93 TP4-5 206192	SOIL SEAD-4 6 12/05/93 TP4-6 206276	SOIL SEAD-4 5 12/05/93 TP4-7 206193	SOIL SEAD-4 3 12/05/93 TP4-8 206194
OUND	UNITS									
ICS										
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	13 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
e (total)	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	15	12 U	11 U	11 U	5 J	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
ane	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
de	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
hane	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
ne	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
ropene	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
hane	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
ane	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
opropene	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
anone	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
oethane	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	12 U	11 U	11 U	11 U	12 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	54 U	57 U	56 U	59 U	59 U	58 U	55 U	58 U	60 U
	ug/Kg	54 U	57 U	56 U	59 U	59 U	58 U	55 U	56 U	60 U
	ug/Kg	5.4 U	5.7 U	5.6 U	5.9 U	5.9 U	5.8 U	5.5 U	5.8 U	6 U
	ug/Kg	5.4 U	5.7 U	5.6 U	5.9 U	5.9 U	5.8 U	5.5 U	5.8 U	6 U
	ug/Kg	130 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U	150 U
	ug/Kg	5.4 U	5.7 U	5.6 U	5.9 U	5.9 U	5.8 U	5.5 U	5.8 U	6 U
	ug/Kg	54 U	57 U	56 U	59 U	59 U	58 U	55 U	58 U	60 U
	ug/Kg	27 U	29 U	28 U	30 U	30 U	29 U	28 UJ	29 U	30 U
	ug/Kg	5400 U	5700 U	5600 U	5900 U	5900 U	5600 U	5500 U	5800 U	6000 U
	ug/Kg	5400 U	5700 U	5600 U	5900 U	5900 U	5600 U	5500 U	5800 U	6000 U
S										
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
e	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ne	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	3	3	4	4	4	6	5	3
	SAMPLE DATE	12/06/93	11/10/93	11/10/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-10.3	TP4-1	TP4-2	TP4-3	TP4-4	TP4-5	TP4-6	TP4-7	TP4-8
	LAB ID	206274	204020-204022	204023-204025	206190	206191	206192	206276	206193	206194
OUND	UNITS									
GANICS										
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ether	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ne	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ne	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ne	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
oropropane)	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
-propylamine	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
d	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
y) methane	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
l	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
nzene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ne	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ylphenol	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ntadiene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
enol	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
enol	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
ene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
phenylether	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
ethylphenol	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
lamine	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
phenylether	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
e	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	860 U	910 U	890 U	930 U	930 U	930 U	890 U	920 UJ	940 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ate	ug/Kg	63 J	33 J	370 U	380 U	380 U	380 U	55 J	380 UJ	390 U
	ug/Kg	350 U	19 J	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ate	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
idine	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ne	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
hthalate	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ate	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
yrene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
cene	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U
ne	ug/Kg	350 U	370 U	370 U	380 U	380 U	380 U	370 U	380 UJ	390 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	4-6	3	3	4	4	4	6	5	3
	SAMPLE DATE	12/06/93	11/10/93	11/10/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93	12/05/93
	ES ID	SB4-10.3	TP4-1	TP4-2	TP4-3	TP4-4	TP4-5	TP4-6	TP4-7	TP4-8
	LAB ID	206274	204020-204022	204023-204025	206190	206191	206192	206276	206193	206194
OUND	UNITS									
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
dane)	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	18 U	19 U	19 U	20 U	20 U	20 U	19 U	20 U	20 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	3.5 U	3.7 U	3.7 U	3.8 U	3.8 U	3.8 U	3.7 U	3.8 U	3.9 U
	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
s	ug/Kg	1.8 U	1.9 U	1.9 U	2 U	2 U	2 U	1.9 U	2 U	2 U
	ug/Kg	180 U	190 U	190 U	200 U	200 U	200 U	190 U	200 U	200 U
	ug/Kg	35 U	37 U	37 U	38 U	38 U	38 U	37 U	38 U	39 U
	ug/Kg	72 U	76 U	75 U	78 U	78 U	78 U	74 U	77 U	80 U
	ug/Kg	35 U	37 U	37 U	38 U	38 U	38 U	37 U	38 U	39 U
	ug/Kg	35 U	37 U	37 U	38 U	38 U	38 U	37 U	38 U	39 U
	ug/Kg	35 U	37 U	37 U	38 U	38 U	38 U	37 U	38 U	39 U
	ug/Kg	35 U	37 U	37 U	38 U	38 U	38 U	37 U	38 U	39 U
	ug/Kg	35 U	37 U	37 U	38 U	38 U	38 U	37 U	38 U	39 U
	mg/Kg	17200	18200	17700	10200	12100	10800	6100	10500	12500
	mg/Kg	40.9 J	11.1 U	11.2 U	3.5 UJ	4 UJ	4.6 UJ	4.6 UJ	3.5 UJ	3.5 UJ
	mg/Kg	8.4	7.2 J	6.4 J	5.1	4.3	5.2	5.8	4.2	3.5
	mg/Kg	54.3	91.9	86.3	65.4	74.9	60.6	37.4 J	64.8	71.8
	mg/Kg	0.83	0.83 J	0.83 J	0.46 J	0.53 J	0.53 J	0.29 J	0.52 J	0.61 J
	mg/Kg	0.34 U	0.69 U R	0.7 U R	0.34 U	0.39 U	1.5	0.45 U	0.34 U	0.34 U
	mg/Kg	2140	6450	3130	88300	76800	86400	64300	59500	2130
	mg/Kg	2470	27.1	27.6	15.1	19.4	16.5	10.8	16.3	20.4
	mg/Kg	14.7	13.5	13.9	9.1	10.3	6.6 J	5.9 J	8.3	11.9
	mg/Kg	2030	21.3 J	23.8 J	17.3	23	20	12	21.7	14.9
	mg/Kg	35100	33500	35400	18900	24100	20000	13900	21400	27300
	mg/Kg	5.2 J	11.3	13.4	11 J	10.9 J	11.2 J	8 J	13.1 J	10.6 J
	mg/Kg	7530	5920	5500	32000	10700	24600	11400	10000	4170
	mg/Kg	287 R	667	714	510 R	488 R	349 R	309 R	435 R	658 R
	mg/Kg	0.02 J	0.04 J	0.04 J	0.04 J	0.03 J	0.02 U	0.03 J	0.03 J	0.03 J
	mg/Kg	49.8	33.7	36	22.6	32.1	25.2	17.7	25.5	27.8
	mg/Kg	1320	1680	1480	1130	1470	1130	690 J	1020	807
	mg/Kg	0.21 J	0.21 UJ	0.16 UJ	0.15 U	0.12 U	0.13 U	0.13 U	0.14 U	0.12 J
	mg/Kg	0.92 J	1.4 UJ	1.4 UJ	0.68 U	0.92 J	1.2 J	0.69 U	0.67 U	0.68 U
	mg/Kg	57.6 J	64.7 J	53.8 J	126 J	88.3 J	111 J	118 J	107 J	31.8 U
	mg/Kg	0.24 U	0.22 UJ	0.18 UJ	0.26 U	0.2 U	0.23 U	0.22 U	0.24 U	0.19 U
	mg/Kg	25.1	28.8	27.2	17.9	21.4	19.3	10.3 J	18.3	19.9
	mg/Kg	440	73.4 J	72.7 J	46.8	68.4	64.1	46.5	75.4	87.8
	mg/Kg	0.52 U	0.52 U	0.52 U	0.56 U	0.51 U	0.52 U	0.48 U	0.56 U	0.59 U
gen	mg/Kg	0.02	3.3	1.2	0.1	1.99	0.12	0.02	0.16	0.89
	%W/W	92.9	88.3	89	86.4	85.9	85.9	89.8	87.3	84
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	SAMPLE DATE	01/21/94	01/21/94	02/04/94	01/20/94	01/20/94	02/01/94	01/20/94
	ES ID	MW4-1	MW4-1RE	MW4-2	MW4-3	MW4-3RE	MW4-4	MW4-5
	LAB ID	209252	209252	210478	209091	209091	210061	209092, 209943
OUND	UNITS							
ICS								
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
e	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
e	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
e (total)	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
e	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
ane	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
de	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
hane	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
ne	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
ropene	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
hane	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
ane	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
opropene	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
tanone	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
oethane	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U	NS	10 U	10 U
	ug/L	NS	NS	NS	NS	NS	NS	NS
	ug/L	1.1 U	NS	1.2 U	1.1 U	NS	1.1 U	1.2 U
	ug/L	1.1 U	NS	1.2 U	1.1 U	NS	1.1 U	1.2 U
	ug/L	0.11 U	NS	0.12 U	0.11 U	NS	0.11 U	0.12 U
	ug/L	0.11 U	NS	0.12 U	0.11 U	NS	0.11 U	0.12 U
	ug/L	2.5 U	NS	2.6 U	2.4 U	NS	2.5 U	2.7 U
	ug/L	0.11 U	NS	0.12 U	0.11 U	NS	0.11 U	0.12 U
	ug/L	1.1 U	NS	1.2 U	1.1 U	NS	1.1 U	1.2 U
	ug/L	0.53 U	NS	0.57 U	0.53 U	NS	0.54 U	0.57 U
	ug/L	110 U	NS	120 U	110 U	NS	110 U	120 U
	ug/L	110 U	NS	120 U	110 U	NS	110 U	120 U
S								
	ug/L	1.1 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
ene	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
e	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
ne	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
itrotoluene	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
itrotoluene	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	NS	0.13 U	0.13 UJ

NOTES:
NS stands for NOT SAMPLED

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX LOCATION SAMPLE DATE ES ID LAB ID	WATER SEAD-4 01/21/94 MW4-1 209252	WATER SEAD-4 01/21/94 MW4-1RE 209252	WATER SEAD-4 02/04/94 MW4-2 210478	WATER SEAD-4 01/20/94 MW4-3 209091	WATER SEAD-4 01/20/94 MW4-3RE 209091	WATER SEAD-4 02/01/94 MW4-4 210061	WATER SEAD-4 01/20/94 MW4-5 209092, 209943
OUND GANICS	UNITS							
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ether	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
oropropane)	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
propylamine	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
l	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
y) methane	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
l	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
zene	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ylphenol	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ntadiene	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
nol	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
nol	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	0.9 J	NS	10 U	0.5 J	NS	10 U	0.6 J
phenylether	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
thylphenol	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
amine	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
phenylether	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
e	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	28 U	NS	25 U	26 U	NS	25 U	27 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
te	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
te	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
dine	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
e	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
hthalate	ug/L	11 U	NS	10 U	10 U	NS	10 U	14 U
te	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
yrene	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U
e	ug/L	11 U	NS	10 U	10 U	NS	10 U	11 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	SAMPLE DATE	01/21/94	01/21/94	02/04/94	01/20/94	01/20/94	02/01/94	01/20/94
	ES ID	MW4-1	MW4-1RE	MW4-2	MW4-3	MW4-3RE	MW4-4	MW4-5
	LAB ID	209252	209252	210478	209091	209091	210061	209092, 203943
OUND	UNITS							
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
lane)	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.54 U	NS	0.64 UJ	0.52 U	NS	0.62 U	0.58 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.11 U	NS	0.13 UJ	0.1 U	NS	0.12 U	0.12 UJ
	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
e	ug/L	0.054 U	NS	0.064 UJ	0.052 U	NS	0.062 U	0.058 UJ
	ug/L	5.4 U	NS	6.4 UJ	5.2 U	NS	6.2 U	5.8 UJ
	ug/L	1.1 U	NS	1.3 UJ	1 U	NS	1.2 U	1.2 UJ
	ug/L	2.2 U	NS	2.5 UJ	2.1 U	NS	2.5 U	2.3 UJ
	ug/L	1.1 U	NS	1.3 UJ	1 U	NS	1.2 U	1.2 UJ
	ug/L	1.1 U	NS	1.3 UJ	1 U	NS	1.2 U	1.2 UJ
	ug/L	1.1 U	NS	1.3 UJ	1 U	NS	1.2 U	1.2 UJ
	ug/L	1.1 U	NS	1.3 UJ	1 U	NS	1.2 U	1.2 UJ
	ug/L	1.1 U	NS	1.3 UJ	1 U	NS	1.2 U	1.2 UJ
	ug/L	41.9 U	NS	435	725	NS	1240	108 J
	ug/L	21.6 U	NS	39.3 J	21.4 U	NS	33.8 J	21.4 U
	ug/L	2.2 J	NS	1.4 U	1 J	NS	1.4 U	0.8 U
	ug/L	19.6 J	NS	19.3 J	42.7 J	NS	46.7 J	36.1 J
	ug/L	0.4 U	NS	0.4 U	6.3	NS	0.4 U	0.4 U
	ug/L	2.1 U	NS	2.1 U	5.6	NS	2.1 U	2.1 U
	ug/L	137000	NS	66300	122000	NS	123000	147000
	ug/L	2.6 U	NS	2.6 U	5.6 J	NS	21.3	2.6 U
	ug/L	4.6 J	NS	4.4 U	6.2 J	NS	4.4 U	5.2 J
	ug/L	3.1 U	NS	3.1 U	6.6 J	NS	37.6	3.1 U
	ug/L	332	NS	471	745	NS	2270	143
	ug/L	0.5 U	NS	1.9 J	0.56 J	NS	2.2 J	0.5 U
	ug/L	57600	NS	10100	32800	NS	19100	31000
	ug/L	346	NS	60.5	229	NS	263	477
	ug/L	0.04 U	NS	0.04 U	0.04 J	NS	0.04 U	0.04 J
	ug/L	4 U	NS	4 U	4.4 J	NS	6.4 J	4 U
	ug/L	7380	NS	1840 J	5250	NS	4540 J	7320
	ug/L	2.1 J	NS	0.7 U	1 4 J	NS	0.7 U	0.9 J
	ug/L	4.2 U	NS	4.2 U	6.7 J	NS	4.2 U	4.2 U
	ug/L	11700	NS	12400	31100	NS	11200	14100
	ug/L	1.2 U	NS	1.2 U	1.2 U	NS	1.2 U	1.2 U
	ug/L	3.7 U	NS	3.7 U	7.7 J	NS	4.9 J	3.7 U
	ug/L	19.1 J	NS	15.2 J	17.7 J	NS	95	42.6
	ug/L	5 U	NS	5 U	5 U	NS	5 U	5 U
ogen	mg/L	0.12	NS	0.23	0.25	NS	0.11	0.07
drocarbons	mg/L	NS	NS	NS	NS	NS	NS	NS
	mg/L	NS	NS	NS	NS	NS	NS	NS
	standard units	7.2	NS	7.46	7.46	NS	7.76	7.57
ty	umhos/cm	600	NS	228	550	NS	400	480
	NTU	3.1	NS	72.7	12.4	NS	6.2	1.1

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	SAMPLE DATE	11/02/93	11/02/93	11/02/93	12/17/93
	ES ID	SW4-1	SW4-3	SW4-2	4PIPE
	LAB ID	203210	203213	203212	206099
OUND	UNITS		SW4-1DUP		
ICS					
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U
e (total)	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U
de	ug/L	10 U	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U
ropene	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
opropene	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
tanone	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
oethane	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	NS	NS	NS	NS
	ug/L	1.1 U	1.1 U	1.1 U	1.1 U
	ug/L	1.1 U	1.1 U	1.1 U	1.1 U
	ug/L	0.11 U	0.11 U	0.11 U	0.11 U
	ug/L	0.11 U	0.11 U	0.11 U	0.11 U
	ug/L	2.5 U	2.4 U	2.5 U	2.4 U
	ug/L	0.11 U	0.11 U	0.11 U	0.11 U
	ug/L	1.1 U	1.1 U	1.1 U	1.1 U
	ug/L	0.54 U	0.52 U	0.53 U	0.52 U
	ug/L	110 U	110 U	110 U	110 U
	ug/L	110 U	110 U	110 U	110 U
:					
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
ene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
e	ug/L	0.13 UJ	0.13 U	0.13 U	0.07 J
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
ne	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
itrotoluene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
itrotoluene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 UJ

NOTES:
NS stands for NOT SAMPLED

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	SAMPLE DATE	11/02/93	11/02/93	11/02/93	12/17/93
	ES ID	SW4-1	SW4-3	SW4-2	4PIPE
	LAB ID	203210	203213	203212	206099
OUND	UNITS		SW4-1DUP		
RGANICS					
	ug/L	10 U	10 U	10 U	10 U
ether	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
loropropane)	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
-propylamine	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ol	ug/L	10 U	10 U	10 U	10 U
y) methane	ug/L	10 U	10 U	10 U	10 U
ol	ug/L	10 U	10 U	10 U	10 U
nzene	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U
hylphenol	ug/L	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U
ntadiene	ug/L	10 U	10 U	10 U	10 U
enol	ug/L	10 U	10 U	10 U	10 U
enol	ug/L	25 U	26 U	26 U	25 U
ene	ug/L	10 U	10 U	10 U	10 U
	ug/L	25 U	26 U	26 U	25 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	25 U	26 U	26 U	25 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	25 U	26 U	26 U	25 U
	ug/L	25 U	26 U	26 U	25 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
phenylether	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	25 U	26 U	26 U	25 U
ethylphenol	ug/L	25 U	26 U	26 U	25 U
lamine	ug/L	10 U	10 U	10 U	10 U
phenylether	ug/L	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U
l	ug/L	25 U	26 U	26 U	25 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ate	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
te	ug/L	10 U	10 U	10 U	10 U
idine	ug/L	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
rthalate	ug/L	10 U	10 U	10 U	10 U
te	ug/L	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
yrene	ug/L	10 U	10 U	10 U	10 U
cene	ug/L	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	SAMPLE DATE	11/02/93	11/02/93	11/02/93	12/17/93
	ES ID	SW4-1	SW4-3	SW4-2	4PIPE
	LAB ID	203210	203213	203212	206099
OUND	UNITS		SW4-1DUP		
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
dane)	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.52 U	0.5 U	0.52 U	0.52 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.1 U	0.1 U	0.1 U	0.1 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	0.052 U	0.05 U	0.052 U	0.052 U
	ug/L	5.2 U	5 U	5.2 U	5.2 U
	ug/L	1 U	1 U	1 U	1 U
	ug/L	2.1 U	2 U	2.1 U	2.1 U
	ug/L	1 U	1 U	1 U	1 U
	ug/L	1 U	1 U	1 U	1 U
	ug/L	1 U	1 U	1 U	1 U
	ug/L	1 U	1 U	1 U	1 U
	ug/L	1 U	1 U	1 U	1 U
	ug/L	237	194 J	314	42.6 J
	ug/L	52.6 U	52.4 U	52.4 U	21.6 U
	ug/L	1.2 U	1.2 U	1.2 U	0.8 U
	ug/L	21.3 J	21.5 J	24.9 J	49.6 J
	ug/L	0.3 U	0.3 U	0.3 U	0.4 U
	ug/L	3.3 U	3.3 U	3.3 U	2.1 U
	ug/L	45800	46800	51200	115000
	ug/L	19.2	19.7	44.6	2.6 U
	ug/L	4.9 U	4.9 U	4.9 U	4.4 U
	ug/L	47.3	50.9	66.9	6 J
	ug/L	443 J	349 J	630 J	657
	ug/L	0.79 UJ	10.7 J	3.1	5.7
	ug/L	10500	10700	10800	21100
	ug/L	28.1	25	45.6	1.6 J
	ug/L	0.07 U	0.07 U	0.07 U	0.04 U
	ug/L	4.1 U	4.1 U	4.1 U	4 U
	ug/L	1680 J	1630 J	1720 J	1170 J
	ug/L	1.1 U	1.1 U	1.1 U	0.7 U
	ug/L	6.7 UJ	6.6 UJ	6.6 UJ	4.2 U
	ug/L	12800	13300	13200	21700
	ug/L	1.2 U	1.2 U	1.2 U	2.4 J
	ug/L	3.3 U	3.3 U	3.3 U	3.7 U
	ug/L	10.7 J	9.2 J	20.3	4 J
	ug/L	8.3 U	8.3 U	8.3 U	5 U
S					
ogen	mg/L	0.03	0.02	0.03	0.33
ydrocarbons	mg/L	NS	NS	NS	NS
	mg/L	NS	NS	NS	NS
	standard units	7.54	7.54	7.92	7.75
ity	umhos/cm	220	220	280	485
	NTU	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
	SAMPLE DATE	11/02/93	11/02/93	11/02/93	12/14/93	12/14/93	12/14/93	12/14/93	12/14/93	12/14/93
	ES ID	SD4-1	SD4-2	SD4-3	SD4-4	SD4-5	SD4-6	SD4-7	SD4-8	SD4-9
	LAB ID	203271	203272	203273	206905	206906	206907	206908	206909	206910
OUND	UNITS									
CS										
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	2 J	11 J	31 UJ
	ug/Kg	210 J	51	23 U	18 U	17 U	18 UJ	21 U	180 J	36 J
	ug/Kg	10 J	33 U	12 J	18 U	17 U	18 UJ	14 U	56 UJ	18 J
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
(total)	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	49 J	33 U	23 U	18 U	17 U	18 UJ	14 U	28 UJ	31 UJ
ne	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
de	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
ane	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
ne	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
ropene	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
ane	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
ne	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
opropene	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
anone	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
ethane	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	17 U	18 UJ	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	3 J	3 J	14 U	56 UJ	31 UJ
	ug/Kg	36 UJ	33 U	23 U	18 U	7 J	4 J	14 U	56 UJ	31 UJ
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	180 UJ	87 U	62 U	88 U	96 U	120 UJ	80 U	150 UJ	210 UJ
	ug/Kg	180 UJ	87 U	62 U	88 U	96 U	120 UJ	80 U	150 UJ	210 UJ
	ug/Kg	21 J	8.7 U	6.2 U	8.8 U	9.6 U	12 UJ	8 U	15 UJ	21 UJ
	ug/Kg	18 UJ	8.7 U	6.2 U	8.8 U	9.6 U	12 UJ	8 U	15 UJ	21 UJ
	ug/Kg	430 UJ	210 U	150 U	210 U	230 U	290 UJ	190 U	360 UJ	500 UJ
	ug/Kg	18 UJ	8.7 U	6.2 U	8.8 U	9.6 U	12 UJ	8 U	15 UJ	21 UJ
	ug/Kg	180 UJ	87 U	62 U	88 U	96 U	120 UJ	80 U	150 UJ	210 UJ
	ug/Kg	89 UJ	44 U	31 U	44 U	48 U	60 UJ	40 U	74 UJ	110 UJ
	ug/Kg	18000 UJ	8700 U	6200 U	8800 U	9600 U	12000 UJ	8000 U	15000 UJ	21000 UJ
	ug/Kg	18000 UJ	8700 U	6200 U	8800 U	9600 U	12000 UJ	8000 U	15000 UJ	21000 UJ
	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
ene	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
e	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
ne	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
trotoluene	ug/Kg	130 UJ	140 J	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
trotoluene	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	130 UJ	130 U	130 U	130 U	130 U	130 UJ	130 UJ	130 UJ	130 UJ

SENECA ARMY DEPOT
SEAD-4 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4	SEAD-4
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
	SAMPLE DATE	11/02/93	11/02/93	11/02/93	12/14/93	12/14/93	12/14/93	12/14/93	12/14/93	12/14/93
	ES ID	SD4-1	SD4-2	SD4-3	SD4-4	SD4-5	SD4-6	SD4-7	SD4-8	SD4-9
	LAB ID	203271	203272	203273	206905	206906	206907	206908	206909	206910
OUND	UNITS									
IGANICS										
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ether	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
loropropane)	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	140 J	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
-propylamine	ug/Kg	1200 UJ	410 J	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ol	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
y) methane	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ol	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
nzene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ne	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
hylphenol	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ntadiene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
enol	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
enol	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
ene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	56 J	3900 UJ	2800 UJ
	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	63 J	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
phenylether	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	29 J	410 U	580 U	630 U	780 UJ	85 J	3900 UJ	2800 UJ
	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
ethylphenol	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
lamine	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	780 J	3900 UJ	2800 UJ
phenylether	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
e	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
	ug/Kg	2800 UJ	1400 U	990 U	1400 U	1500 U	1900 UJ	2500 UJ	9400 UJ	6700 UJ
	ug/Kg	1200 UJ	580 U	410 U	86 J	630 U	780 UJ	490 J	3900 UJ	220 J
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	170 J	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
te	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	69 J	83 J	250 J	2800 UJ
	ug/Kg	1200 UJ	31 J	410 U	190 J	630 U	780 UJ	560 J	330 J	310 J
	ug/Kg	1200 UJ	26 J	410 U	180 J	630 U	780 UJ	480 J	320 J	290 J
te	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
idine	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
e	ug/Kg	1200 UJ	580 U	410 U	95 J	630 U	780 UJ	300 J	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	160 J	630 U	780 UJ	290 J	3900 UJ	200 J
hthalate	ug/Kg	1200 UJ	580 U	410 U	500 J	630 U	780 UJ	2200 J	3600 J	560 J
te	ug/Kg	1200 UJ	48 J	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ene	ug/Kg	1200 UJ	580 U	410 U	250 J	630 U	780 UJ	330 J	3900 UJ	230 J
ne	ug/Kg	1200 UJ	580 U	410 U	95 J	630 U	780 UJ	120 J	3900 UJ	2800 UJ
	ug/Kg	1200 UJ	580 U	410 U	140 J	630 U	780 UJ	240 J	3900 UJ	2800 UJ
yrene	ug/Kg	1200 UJ	580 U	410 U	86 J	630 U	780 UJ	130 J	3900 UJ	2800 UJ
cene	ug/Kg	1200 UJ	580 U	410 U	580 U	630 U	780 UJ	1000 UJ	3900 UJ	2800 UJ
ne	ug/Kg	1200 UJ	580 U	410 U	65 J	630 U	780 UJ	79 J	3900 UJ	2800 UJ

SEAD-16

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/20/93	10/20/93	10/22/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	11/09/93
	ES ID	SS16-1	SS16-2	SS16-3	SS16-4	SS16-5	SS16-6	SS16-7	SS16-8	SS16-9
	LAB ID	201880	201881	202032	201882	201883	201884	201885	201886	204033
OUND	UNITS									
CS										
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	2 J	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	17	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	1 J	11 U	11 U	11 U	10 U	53 U	10 U	11 U
e	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
e	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
e (total)	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	2 J	53 U	10 U	11 U
e	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
ane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
le	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
ane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
ne	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
ropene	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
hane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
ane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
opropene	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
anone	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
ethane	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	4 J	11 U	5 J	3 J	53 U	2 J	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	11 U	12 U	11 U	11 U	11 U	10 U	53 U	10 U	11 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	54 U	63 U	60 U	55 U	57 U	53 U	53 U	53 U	55 U
	ug/Kg	54 U	63 U	60 U	55 U	57 U	53 U	53 U	53 U	55 U
	ug/Kg	5.4 U	6.3 U	7.2	5.5 U	5.7 U	5.3 U	5.3 U	5.3 U	5.5 U
	ug/Kg	5.4 U	6.3 U	6 U	5.5 U	5.7 U	5.3 U	5.3 U	5.3 U	5.5 U
	ug/Kg	130 U	150 U	150 U	140 U	140 U	130 U	130 U	130 U	130 U
	ug/Kg	5.4 U	6.3 U	6 U	5.5 U	5.7 U	5.3 U	5.3 U	5.3 U	5.5 U
	ug/Kg	54 U	63 U	60 U	55 U	57 U	53 U	53 U	53 U	55 U
	ug/Kg	27 U	32 U	30 U	28 U	29 U	27 U	27 U	27 U	28 U
	ug/Kg	5400 U	6300 U	6000 U	5500 U	5700 U	5300 U	5300 U	5300 U	5500 U
	ug/Kg	5400 U	6300 U	6000 U	5500 U	16000	5300 U	5300 U	5300 U	5500 U
:										
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
e	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	220 J	130 U	130 U	130 U	130 U	130 U	130 U
ne	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	130 U	130 U	430 J	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	320	500	1100	170	780 J	130 U	130 U	770	450 J

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16		SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)	0-0.2		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/20/93		10/20/93	10/22/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	11/09/93
	ES ID	SS16-1		SS16-2	SS16-3	SS16-4	SS16-5	SS16-6	SS16-7	SS16-8	SS16-9
	LAB ID	201880		201881	202032	201882	201883	201884	201885	201886	204033
OUND	UNITS										
GANICS											
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ether	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
opropropane)	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
propylamine	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ol	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
y) methane	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ol	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
zene	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	230 J	320 J	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ylphenol	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	710 U	R	350 J	510 J	7200 U	97 J	14000 U	1300 U	1800 U	2700 U
ntadiene	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
nol	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
nol	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
ne	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	70 J		65 J	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	180 J		410 U	310 J	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	44 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
	ug/Kg	710 U	R	100 J	110 J	7200 U	82 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	2200 J		780	7100	7200 U	530 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
henylether	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
thylphenol	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
amine	ug/Kg	680 J		150 J	1400	7200 U	130 J	14000 U	1300 U	350 J	2700 U
henylether	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
e	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
	ug/Kg	1700 U	R	1000 U	2700 U	18000 U	1800 U	34000 U	3100 U	4200 U	6600 U
	ug/Kg	140 J		420	360 J	7200 U	410 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	82 J		55 J	1100 U	7200 U	70 J	14000 U	1300 U	1600 U	2700 U
	ug/Kg	710 U	R	48 J	1100 U	7200 U	78 J	14000 U	1300 U	1800 U	2700 U
te	ug/Kg	1300 J		710	1200	7200 U	350 J	14000 U	1300 U	1400 J	510 J
	ug/Kg	470 J		580	200 J	7200 U	710 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	980 J		520	200 J	7200 U	550 J	14000 U	1300 U	1800 U	160 J
te	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
dine	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
e	ug/Kg	420 J		260 J	110 J	7200 U	240 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	500 J		470	200 J	7200 U	340 J	14000 U	1300 U	1800 U	2700 U
nthalate	ug/Kg	710 U	R	410 U	390 J	7200 U	450 J	14000 U	1300 U	1800 U	2100 J
te	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	480 J		500	170 J	7200 U	350 J	14000 U	1300 U	1800 U	2700 U
ne	ug/Kg	740 J		310 J	97 J	7200 U	330 J	14000 U	1300 U	1800 U	2700 U
	ug/Kg	560 J		300 J	120 J	7200 U	270 J	14000 U	1300 U	1800 U	2700 U
yrene	ug/Kg	710 U	R	30 J	1100 U	7200 U	200 J	14000 U	1300 U	1800 U	2700 U
ene	ug/Kg	710 U	R	410 U	1100 U	7200 U	750 U	14000 U	1300 U	1800 U	2700 U
e	ug/Kg	160 J		130 J	1100 U	7200 U	180 J	14000 U	1300 U	1800 U	2700 U

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/20/93	10/20/93	10/22/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	11/09/93
	ES ID	SS16-1	SS16-2	SS16-3	SS16-4	SS16-5	SS16-6	SS16-7	SS16-8	SS16-9
	LAB ID	201880	201881	202032	201882	201883	201884	201885	201886	204033
UND	UNITS									
	ug/Kg	1.8 UJ	2.1 U R	2 UJ	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
	ug/Kg	1.8 UJ	2.1 U R	1.3 J	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
	ug/Kg	1.8 UJ	2.1 U R	2 UJ	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
ane)	ug/Kg	1.8 UJ	2.1 U R	2 UJ	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
	ug/Kg	1.8 UJ	2.1 U R	2 UJ	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
	ug/Kg	1.8 UJ	2.1 U R	2.6 J	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
	ug/Kg	1.8 UJ	2.1 U R	2 UJ	19 U	9.7 U	1.8 UJ	1.8 U	3.6 U	1.8 UJ
	ug/Kg	14 J	3.4 J	2 UJ	19 U	6.2 J	1.8 UJ	1.8 U	1.9 J	1.8 UJ
	ug/Kg	3.5 UJ	4.1 U R	3.9 UJ	36 U	19 U	3.5 UJ	3.5 U	7 U	3.5 UJ
	ug/Kg	19 J	9.4 J	32 J	1400	130	3.5 UJ	6.3	84 J	2.8 J
	ug/Kg	3.5 UJ	4.1 U R	3.9 UJ	36 U	19 U	3.5 UJ	3.5 U	7 U	3.5 UJ
	ug/Kg	4.4 J	4.1 U R	4.6 J	36 U	19 U	3.5 UJ	2.2 J	7 U	3.5 UJ
	ug/Kg	5 J	4.1 U R	3.9 UJ	36 U	19 U	3.5 UJ	3.5 U	7 U	3.5 UJ
	ug/Kg	3.5 UJ	4.1 U R	3.9 UJ	36 U	19 U	3.5 UJ	3.5 U	7 U	3.5 UJ
	ug/Kg	12 J	6.1 J	16 J	160	29	1.8 J	5.6	79 J	2.9 J
	ug/Kg	18 UJ	21 U R	20 UJ	190 U	97 U	18 UJ	18 U	36 U	18 UJ
	ug/Kg	3.4 J	4.1 U R	3.3 J	36 U	19 U	3.5 UJ	3.5 U	7 U	3.5 UJ
	ug/Kg	3 J	4.1 U R	3.9 UJ	36 U	19 U	3.5 UJ	3.5 U	7 U	3.5 UJ
	ug/Kg	1.8 UJ	2.1 U R	4.7 J	19 U	9.7 U	1.8 UJ	6.1	3.6 U	1.8 UJ
	ug/Kg	1.8 UJ	2.1 U R	4.7 J	19 U	9.7 U	1.8 UJ	7	3.6 U	1.8 UJ
	ug/Kg	180 UJ	210 U R	200 UJ	1900 U	970 U	180 UJ	180 U	360 U	180 UJ
	ug/Kg	35 UN	41 U R	39 UJ	360 U	190 U	35 UJ	35 U	70 UN	35 UJ
	ug/Kg	72 UN	84 U R	80 UJ	740 U	360 U	71 UJ	71 U	140 UN	72 UJ
	ug/Kg	35 UN	41 U R	39 UJ	360 U	190 U	35 UJ	35 U	70 UN	35 UJ
	ug/Kg	35 UN	41 U R	39 UJ	360 U	190 U	35 UJ	35 U	70 UN	35 UJ
	ug/Kg	35 UN	41 U R	39 UJ	360 U	190 U	35 UJ	35 U	70 UN	35 UJ
	ug/Kg	30 NJ	41 U R	39 UJ	360 U	190 U	35 UJ	35 U	57 NJ	35 UJ
	ug/Kg	35 UN	41 U R	110 J	360 U	190 U	35 UJ	35 U	70 UN	35 UJ
	mg/Kg	6550	6340	7250	11900	13600	9650	8670	7800	10700
	mg/Kg	17.1	55.6	121 R	26.3	27.3	7.9 U	6.8 U	8.2 U	7 U
	mg/Kg	4.9	16.6	23.6	11.3	10.8	5.1	5	5.2	4.2 J
	mg/Kg	102	1200	1540 R	227	630	45.1	41.2	72.2	53.6
	mg/Kg	0.32 J	0.42 J	0.39 J	0.45 J	0.56 J	0.24 J	0.29 J	0.39 J	0.43 J
	mg/Kg	0.44 U	1.6	2.5	0.55 U	2.6	0.49 U	0.55 U	0.52 U	0.43 U R
	mg/Kg	147000	11700	21400	55600	37100	25600	36600	107000	35400
	mg/Kg	12.6	16.5	33.3	24	43.3	12.9	11.9	15.9	17.6
	mg/Kg	6.2 J	6.7 J	9.1	11.9	13.4	7.9	7.5 J	8.1	6.2
	mg/Kg	44	911	1730	399	635	26.2	28.9	88.9	31.4 J
	mg/Kg	12300	25900	25700	27700	36500	22100	20000	16700	22400
	mg/Kg	269	3780	9140	2940	2860	6.5	61.2	1890	76.2
	mg/Kg	34900	4400	4300	8690	7930	7710	13800	9940	15300
	mg/Kg	355 J	176 J	4140	411 J	444 J	305 J	476 J	333 J	349
	mg/Kg	0.2	4	11.4 J	0.21	0.99	0.03 U	0.04 U	0.08	0.05 J
	mg/Kg	23	21.7	37.3	41.6	146	22.7	21.7	28.7	29.3
	mg/Kg	1290	673 J	866	1250	1410	720 J	794 J	1150	1160
	mg/Kg	0.15 UJ	0.4 J	0.22 UJ	0.2 UJ	0.22 UJ	0.13 UJ	0.13 UJ	0.21 UJ	0.19 UJ
	mg/Kg	0.9 U	1.5 U	1.1 UJ	1.1 U	1 U	1 U	1.1 U	1 U	0.88 UJ
	mg/Kg	213 J	121 J	147 J	126 J	132 J	79.6 J	109 J	170 J	125 J
	mg/Kg	1.6 U	0.19 U	0.24 U	0.22 U	0.24 U	0.14 U	0.14 U	0.23 U	0.21 UJ
	mg/Kg	36.9	14.5	17.9	20.3	23.9	38.1	35.7	34.5	22.8
	mg/Kg	219	478	929	416	562	65.8	66.1	105	76.8 J
	mg/Kg	0.84 U	0.74 U	0.66 U	0.6 U	0.63 U	0.58 U	0.6 U	0.58 U	0.52 U
gen	mg/Kg	0.05	0.9	0.26	0.45	0.5	0.42	0.05	0.23	0.01 U
	%W/W	92.9	80.3	84.4	90.6	88.3	94.5	94.2	94.2	92.6
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93
	ES ID	SS16-11	SS16-12	SS16-12RE	SS16-13	SS16-13RE	SS16-14	SS16-15	SS16-15RE	SS16-16
	LAB ID	201889	201890	201890	201891	201891	201892	201893	201893	201894
OUND	UNITS									
CS										
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	3 J	11 UJ	11 UJ	11 UJ	3 J	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	43 J	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
e	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
e	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
e (total)	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
e	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
ane	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
le	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
hane	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
ne	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
ropene	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
hane	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
ane	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
opropene	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
anone	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
oethane	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	2 J	1 J	11 UJ	11 UJ	1 J	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	13 U	11 UJ	11 UJ	11 UJ	11 UJ	11 U	11 UJ	11 U R	11 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	67 U	55 U	NS	57 U	NS	56 U	54 U	NS	56 U
	ug/Kg	67 U	55 U	NS	57 U	NS	56 U	54 U	NS	56 U
	ug/Kg	6.7 U	5.5 U	NS	5.7 U	NS	8.3	5.4 U	NS	5.6 U
	ug/Kg	6.7 U	5.5 U	NS	5.7 U	NS	5.6 U	5.4 U	NS	5.6 U
	ug/Kg	160 U	140 U	NS	140 U	NS	140 U	130 U	NS	140 U
	ug/Kg	6.7 U	5.5 U	NS	5.7 U	NS	5.6 U	5.4 U	NS	5.6 U
	ug/Kg	67 U	55 U	NS	57 U	NS	56 U	54 U	NS	56 U
	ug/Kg	34 U	28 U	NS	29 U	NS	28 U	27 U	NS	28 U
	ug/Kg	6700 U	5500 U	NS	5700 U	NS	5600 U	5400 U	NS	5600 U
	ug/Kg	6700 U	5500 U	NS	5700 U	NS	5600 U	5400 U	NS	5600 U
s										
	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
ene	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
e	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
ne	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
itrotoluene	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
itrotoluene	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	NS	130 U	NS	130 U	130 U	NS	130 U
	ug/Kg	130 U	130 U	NS	130 U	NS	1200	130 U	NS	150

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93
	ES ID	SS16-11	SS16-12	SS16-12RE	SS16-13	SS16-13RE	SS16-14	SS16-15	SS16-15RE	SS16-16
	LAB ID	201889	201890	201890	201891	201891	201892	201893	201893	201894
UND	UNITS									
BANICS										
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ther	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
e	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
e	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
e	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ropropane)	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ropylamine	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
l	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
) methane	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
zene	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
e	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ylphenol	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ne	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
tadiene	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
nol	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
nol	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
ne	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	56 J	350 U	NS	1800 UJ
	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
henylether	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
thylphenol	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	860 U	NS	4500 UJ
mine	ug/Kg	22 J	360 U	NS	43 J	NS	17 J	350 U	NS	1800 UJ
henylether	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	1100 U	880 U	NS	1800 U	NS	890 U	880 U	NS	4500 UJ
	ug/Kg	130 J	45 J	NS	81 J	NS	36 J	25 J	NS	1800 UJ
	ug/Kg	27 J	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	22 J	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
e	ug/Kg	250 J	19 J	NS	750 U	NS	78 J	350 U	NS	1800 UJ
	ug/Kg	240 J	83 J	NS	120 J	NS	68 J	23 J	NS	1800 UJ
	ug/Kg	200 J	66 J	NS	97 J	NS	54 J	19 J	NS	1800 UJ
e	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
dine	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
	ug/Kg	110 J	31 J	NS	45 J	NS	26 J	350 U	NS	1800 UJ
	ug/Kg	130 J	49 J	NS	72 J	NS	44 J	16 J	NS	1800 UJ
thalate	ug/Kg	540 J	360 U	NS	320 J	NS	370 J	350 U	NS	1800 UJ
e	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ne	ug/Kg	100 J	31 J	NS	49 J	NS	33 J	350 U	NS	1800 UJ
ne	ug/Kg	98 J	34 J	NS	53 J	NS	30 J	350 U	NS	1800 UJ
	ug/Kg	99 J	27 J	NS	40 J	NS	24 J	350 U	NS	1800 UJ
rene	ug/Kg	30 J	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
ene	ug/Kg	440 U	360 U	NS	750 U	NS	370 U	350 U	NS	1800 UJ
e	ug/Kg	62 J	360 U	NS	750 U	NS	19 J	350 U	NS	1800 UJ

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93	10/20/93
	ES ID	SS16-11	SS16-12	SS16-12RE	SS16-13	SS16-13RE	SS16-14	SS16-15	SS16-15RE	SS16-16
	LAB ID	201889	201890	201890	201891	201891	201892	201893	201893	201894
UND	UNITS									
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.8 U	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.8 U	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.8 U	1.8 U	NS	3.8 U
ane)	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.8 U	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.8 U	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.8 U	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.6 J	NS	2.1 J	NS	3.8 U	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.4 J	NS	1.9 U	NS	3.8 U	0.96 J	NS	3.8 U
	ug/Kg	4.4 U	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	15 J	38	NS	6	NS	59	28 J	NS	38
	ug/Kg	4.4 U	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	4.4 U	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	4.4 U	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	4.4 U	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	6.3 J	5	NS	2.6 J	NS	19	2.1 J	NS	69
	ug/Kg	23 U	19 U	NS	19 U	NS	38 U	18 U	NS	36 U
	ug/Kg	4.4 U	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	6.5 J	3.6 U	NS	3.7 U	NS	7.3 U	3.5 U	NS	7.4 U
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	4.8	1.8 U	NS	3.8 U
	ug/Kg	2.3 U	1.9 U	NS	1.9 U	NS	3.4 J	1.8 U	NS	3.8 U
	ug/Kg	230 U	190 U	NS	190 U	NS	380 U	180 U	NS	380 U
	ug/Kg	44 U	36 U	NS	37 U	NS	73 U	35 U	NS	74 U
	ug/Kg	89 U	74 U	NS	76 U	NS	150 U	72 U	NS	150 U
	ug/Kg	44 U	36 U	NS	37 U	NS	73 U	35 U	NS	74 U
	ug/Kg	44 U	36 U	NS	37 U	NS	73 U	35 U	NS	74 U
	ug/Kg	44 U	36 U	NS	37 U	NS	73 U	35 U	NS	74 U
	ug/Kg	44 U	36 U	NS	37 U	NS	73 U	35 U	NS	74 U
	ug/Kg	110	36 U	NS	37 U	NS	73 U	22 J	NS	74 U
	mg/Kg	17200	10400	NS	14100	NS	7680	7510	NS	6310
	mg/Kg	13.9 U	6.6 U	NS	6.2 U	NS	8.4	6.2 U	NS	9 U
	mg/Kg	7.7	5.2	NS	6.6	NS	9.9	4.8	NS	3.6
	mg/Kg	195	52	NS	88.2	NS	211	35.1	NS	56.6
	mg/Kg	0.91 J	0.46 J	NS	0.59 J	NS	0.41 J	0.34 J	NS	0.37 J
	mg/Kg	0.87 U	0.41 U	NS	0.51 U	NS	0.61 J	0.39 U	NS	0.56 U
	mg/Kg	9820	30300	NS	28700	NS	178000	26800	NS	135000
	mg/Kg	25.5	19.2	NS	26.7	NS	14.4	15.6	NS	14.1
	mg/Kg	16.7	10.6	NS	13.7	NS	6.2	8.1	NS	10.4
	mg/Kg	199	54.8	NS	204	NS	163	42.6	NS	69.2
	mg/Kg	30600	22700	NS	30400	NS	16500	17500	NS	11700
	mg/Kg	616	195	NS	460	NS	720	210	NS	643
	mg/Kg	5200	5830	NS	7350	NS	5990	4770	NS	56000
	mg/Kg	706 J	329 J	NS	417 J	NS	270 J	227 J	NS	310 J
	mg/Kg	0.73	0.24	NS	1	NS	0.07 J	0.05 J	NS	0.04 J
	mg/Kg	35.2	39.5	NS	50.8	NS	29.4	30.5	NS	28.5
	mg/Kg	1600	1080	NS	1320	NS	1100	802	NS	2300
	mg/Kg	0.24 UJ	0.25 J	NS	0.21 J	NS	0.41 J	0.22 UJ	NS	0.21 UJ
	mg/Kg	1.8 U	0.84 U	NS	1 U	NS	0.93 U	0.79 U	NS	1.1 U
	mg/Kg	72.2 J	108 J	NS	125 J	NS	176 J	90.1 J	NS	240 J
	mg/Kg	0.26 U	0.25 U	NS	0.16 U	NS	0.14 U	0.24 U	NS	0.23 U
	mg/Kg	28.8	15	NS	21.1	NS	13.4	10.8	NS	61.9
	mg/Kg	1270	89	NS	128	NS	104	68.6	NS	93.6
	mg/Kg	0.69 U	0.84 U	NS	0.63 U	NS	0.64 U	0.63 U	NS	0.67 U
gen	mg/Kg	0.23	0.04	NS	0.05	NS	0.05	0.04	NS	0.2
	%W/W	75	90.9	NS	88.3	NS	90.5	93.4	NS	88.9
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)									
	SAMPLE DATE	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93
	ES ID	FS16-1	FS16-2	FS16-3	FS16-4	FS16-5	FS16-5RE	FS16-6	FS16-6RE	FS16-7
	LAB ID	206161	206162	206164	206165	206139	206139	206140	206140	206141
UND	UNITS									
CS										
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
(total)	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
ne	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
e	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
ane	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
e	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
opene	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
ane	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
ne	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
propene	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
none	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
ethane	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	11 U	10 U	11 U	18 U	11 U	NS	11 U	NS	25 UJ
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	55 U	52 U	69 U	94 U	58 U	NS	55 U	NS	120 UJ
	ug/Kg	130 J	52 U	69 U	94 U	58 U	NS	55 U	NS	120 UJ
	ug/Kg	3.9 J	5.2 U	6.9 U	9.4 U	5.8 U	NS	5.5 U	NS	12 UJ
	ug/Kg	7.9 J	5.2 U	6.9 U	9.4 U	5.8 U	NS	5.5 U	NS	12 UJ
	ug/Kg	140 U	130 U	170 U	230 U	140 U	NS	130 U	NS	290 UJ
	ug/Kg	5.5 U	5.2 U	6.9 U	9.4 U	5.8 U	NS	5.5 U	NS	12 UJ
	ug/Kg	61 J	52 U	69 U	94 U	58 U	NS	55 U	NS	120 UJ
	ug/Kg	28 U	26 UJ	35 U	47 U	29 U	NS	28 U	NS	60 UJ
	ug/Kg	6000 J	5200 U	6900 U	9400 U	5800 U	NS	5500 U	NS	12000 UJ
	ug/Kg	22000 J	5200 U	6900 U	9400 U	5800 U	NS	5500 U	NS	12000 UJ
	ug/Kg	130 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
	ug/Kg	130 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
ne	ug/Kg	130 U	130 UJ	130 U	130 U	130 U	NS	130 U	NS	130 UJ
	ug/Kg	130 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
	ug/Kg	190 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
e	ug/Kg	170 J	130 UJ	130 U	130 U	130 U	NS	130 U	NS	130 UJ
trotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
trotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
	ug/Kg	130 U	130 U	130 U	130 U	130 U	NS	130 U	NS	130 UJ
	ug/Kg	130 U	72 J	130 U	2900	130 U	NS	610	NS	3100 J

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)									
	SAMPLE DATE	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93
	ES ID	FS16-1	FS16-2	FS16-3	FS16-4	FS16-5	FS16-5RE	FS16-6	FS16-6RE	FS16-7
	LAB ID	206161	206162	206164	206165	206139	206139	206140	206140	206141
OUND	UNITS									
GANICS										
	ug/Kg	81 J	340 U	37000	150 J	380 U	720 UJ	360 U	710 UJ	2600 UJ
ether	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
oropropane)	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
propylamine	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ol	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
y) methane	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ol	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
zene	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	43 J	1600 J	620 U	19 J	720 UJ	360 U	710 UJ	410 J
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
nylphenol	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	25 J	21 J	19000	49 J	40 J	37 J	360 U	710 UJ	180 J
ntadiene	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
enol	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
enol	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
ene	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	200 J	370 J	2600 UJ
	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
	ug/Kg	23 J	340 U	4500 J	620 U	380 U	720 UJ	360 U	710 UJ	560 J
	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
	ug/Kg	360 U	46 J	1500 J	620 U	22 J	720 UJ	360 U	710 UJ	390 J
	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	2700	5000 J	2600 UJ
	ug/Kg	360 U	340 U	530 J	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
phenylether	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	25 J	340 U	6100	620 U	380 U	720 UJ	360 U	710 UJ	560 J
	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
ethylphenol	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
lamine	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	450	480 J	2600 UJ
phenylether	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
e	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
	ug/Kg	860 U	830 U	14000 U	1500 U	920 U	1700 UJ	870 U	1700 UJ	6300 UJ
	ug/Kg	130 J	550	22000	120 J	100 J	98 J	110 J	80 J	4100 J
	ug/Kg	22 J	340 U	2900 J	620 U	22 J	720 UJ	360 U	710 UJ	670 J
	ug/Kg	24 J	340 U	5700 U	620 U	36 J	720 UJ	21 J	710 UJ	740 J
ate	ug/Kg	360 U	340 U	5700 U	620 U	50 J R	720 UJ	77 J R	710 UJ	2600 UJ R
	ug/Kg	160 J	920	3100 J	140 J	120 J	140 J	210 J	170 J	3900 J
	ug/Kg	200 J	570	5000 J	120 J	130 J	140 J	160 J	130 J	3200 J
ate	ug/Kg	360 U	340 U	5700 U	620 U	380 U R	720 UJ	360 U R	710 UJ	2600 UJ R
idine	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	61 J	40 J	1000 J	44 J	54 J	52 J	92 J	80 J	1600 J
	ug/Kg	110 J	150 J	1400 J	74 J	120 J	120 J	110 J	93 J	1900 J
phthalate	ug/Kg	360 U	340 U	5700 U	440 J	3100 E R	5000 J	80 J R	52 J	500 J R
ate	ug/Kg	360 U	340 U	5700 U	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ene	ug/Kg	91 J	130 J	500 J	73 J	47 J	76 J	99 J	74 J	1600 J
ene	ug/Kg	73 J	77 J	630 J	60 J	50 J	63 J	92 J	76 J	1600 J
	ug/Kg	70 J	45 J	770 J	61 J	54 J	61 J	90 J	70 J	1500 J
pyrene	ug/Kg	360 U	92 J	450 J	620 U	380 U	720 UJ	39 J	49 J	400 J
cene	ug/Kg	360 U	26 J	500 J	620 U	380 U	720 UJ	360 U	710 UJ	2600 UJ
ne	ug/Kg	360 U	120 J	670 J	620 U	380 U	34 J	61 J	51 J	360 J

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	DEPTH (FEET)									
	SAMPLE DATE	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93	12/06/93
	ES ID	FS16-1	FS16-2	FS16-3	FS16-4	FS16-5	FS16-5RE	FS16-6	FS16-6RE	FS16-7
	LAB ID	206161	206162	206164	206165	206139	206139	206140	206140	206141
UND	UNITS									
	ug/Kg	1.9 U	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
	ug/Kg	1.9 U	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
	ug/Kg	1.9 U	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
ane)	ug/Kg	0.93 J	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
	ug/Kg	1.9 U	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
	ug/Kg	1.9 U	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
	ug/Kg	1.9 U	1.8 U	2.6 J	6.4 U	3.9 U	NS	1.8 U	NS	20 UJ
	ug/Kg	1.9 U	1.8 U	4.7 U	6.4 U	3.9 U	NS	1.8 U	NS	22 J
	ug/Kg	4.2 J	3.4 U	9.2 U	12 U	7.5 U	NS	3.6 U	NS	28 J
	ug/Kg	13 J	17 J	73 J	17	750	NS	6.3 J	NS	97 J
	ug/Kg	3.6 U	3.4 U	9.2 J	12 U	7.5 U	NS	3.6 U	NS	39 UJ
	ug/Kg	3.6 U	3.4 J	5.7 J	12 U	3.9 J	NS	3.6 U	NS	39 UJ
	ug/Kg	5.2 J	3.1 J	9.2 U	12 U	35 J	NS	3.6 U	NS	39 UJ
	ug/Kg	3.6 U	3.4 U	9.2 U	12 U	7.5 U	NS	3.6 U	NS	39 UJ
	ug/Kg	6.1 J	6.1 J	61 J	140	610	NS	7.2	NS	360 J
	ug/Kg	19 U	18 U	47 U	64 U	39 U	NS	18 U	NS	200 UJ
	ug/Kg	3.6 U	3.4 U	9.2 U	12 U	7.5 U	NS	3.6 U	NS	39 UJ
	ug/Kg	3.6 U	3.4 U	9.2 U	12 U	7.5 U	NS	3.6 U	NS	39 UJ
	ug/Kg	1.2 J	2.1 J	3.8 J	6.4 U	3.1 J	NS	1.8 U	NS	13 J
	ug/Kg	1.9 U	2.1 J	4.6 J	6.4 U	2.9 J	NS	1.8 U	NS	12 J
	ug/Kg	190 U	180 U	470 U	640 U	390 U	NS	180 U	NS	2000 UJ
	ug/Kg	36 U	34 U	92 U	120 U	75 U	NS	36 U	NS	390 UJ
	ug/Kg	74 U	70 U	190 U	250 U	150 U	NS	73 U	NS	800 UJ
	ug/Kg	36 U	34 U	92 U	120 U	75 U	NS	36 U	NS	390 UJ
	ug/Kg	36 U	34 U	92 U	120 U	75 U	NS	36 U	NS	390 UJ
	ug/Kg	36 U	34 U	92 U	120 U	75 U	NS	36 U	NS	390 UJ
	ug/Kg	36 J	56	130	120 U	75 U	NS	36 U	NS	360 J
	ug/Kg	37	51	97	120 U	89	NS	36 U	NS	390 UJ
	mg/Kg	9540	16500	6610	9550	2960	NS	11300	NS	7960 J
	mg/Kg	4.6 U	1250	1560	31.5	11.9 J	NS	11.2 J	NS	21.8 J
	mg/Kg	3.4	47.3	26.9	7.1	1.9	NS	6.5	NS	8 J
	mg/Kg	145	15600	6950	466	86.2	NS	289	NS	392 J
	mg/Kg	0.51 J	0.09 J	0.08 U	1.1 J	0.19 J	NS	0.49 J	NS	0.32 J
	mg/Kg	22.2 R	36.8 R	156 R	1 J R	3	NS	1.2	NS	72.8 J
	mg/Kg	19800	13800	21200	23000	215000	NS	41800	NS	41600 J
	mg/Kg	15.6	220	33.2	6.4	33.2 R	NS	21.3 R	NS	22.1 J R
	mg/Kg	15	20.9	9.7 J	3.3 J	5.6 J	NS	9.9	NS	6 J
	mg/Kg	211 J	38900 J	81400 J	129 J	90 J	NS	198 J	NS	593 J
	mg/Kg	19700	49300	30500	6420	41300	NS	25000	NS	17200 J
	mg/Kg	810	437000	527000	596	309	NS	365	NS	1560 J
	mg/Kg	4850	16400	19700	2470	15700	NS	16400	NS	10500 J
	mg/Kg	488 J	334 J	214 J	194 J	480	NS	456	NS	301 J
	mg/Kg	0.81	39.3	1.8	0.34	0.1	NS	1.2	NS	2.4 J
	mg/Kg	21.1	119	66.6	7.9 J	18.8	NS	30.5	NS	21.5 J
	mg/Kg	10500	1570	636 J	1550 J	704 J	NS	1480	NS	1430 J
	mg/Kg	5.8 J	1.3 UJ	1.6 UJ	0.26 UJ	0.13 UJ	NS	0.72 J	NS	1.6 J
	mg/Kg	0.9 U	13.4	22.7	1.5 U	0.73 U	NS	0.8 U	NS	1.3 UJ
	mg/Kg	3690	2650	152 J	365 J	179 J	NS	200 J	NS	97.9 J
	mg/Kg	0.38 J	2.2 UJ	1.4 J	0.44 UJ	0.22 U	NS	0.25 U	NS	0.45 UJ
	mg/Kg	17.7	12.9	6.2 J	7 J	8.3 J	NS	16.3	NS	20.6 J
	mg/Kg	715 J	12400 J	35700 J	178 J	318	NS	293	NS	1310 J
	mg/Kg	1.1	1.4	0.74 U	1 U	0.61 U	NS	0.58 U	NS	2.3 J
gen	mg/Kg	151	13.7	0.21	0.27	2	NS	104	NS	0.89
	%W/W	90.7	96.3	72.4	52.6	86.8	NS	92.3	NS	41.8
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL
	LOCATION	SEAD-16	SEAD-16
	DEPTH (FEET)		
	SAMPLE DATE	12/06/93	12/06/93
	ES ID	FS16-8	FS16-8RE
	LAB ID	206142	206142
OUND	UNITS		
CS			
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
e	ug/Kg	21 UJ	NS
e	ug/Kg	21 UJ	NS
e (total)	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
e	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
ane	ug/Kg	21 UJ	NS
de	ug/Kg	21 UJ	NS
hane	ug/Kg	21 UJ	NS
ne	ug/Kg	21 UJ	NS
ropene	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
hane	ug/Kg	21 UJ	NS
ane	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
opropene	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
anone	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
ethane	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	21 UJ	NS
	ug/Kg	NS	NS
	ug/Kg	160 J	NS
	ug/Kg	120 UJ	NS
	ug/Kg	13 J	NS
	ug/Kg	12 UJ	NS
	ug/Kg	280 UJ	NS
	ug/Kg	12 UJ	NS
	ug/Kg	120 UJ	NS
	ug/Kg	58 UJ	NS
	ug/Kg	12000 UJ	NS
	ug/Kg	12000 UJ	NS
	ug/Kg	130 UJ	NS
	ug/Kg	130 UJ	NS
ene	ug/Kg	130 UJ	NS
e	ug/Kg	130 UJ	NS
	ug/Kg	130 UJ	NS
ne	ug/Kg	130 UJ	NS
itrotoluene	ug/Kg	130 UJ	NS
itrotoluene	ug/Kg	130 UJ	NS
	ug/Kg	130 UJ	NS
	ug/Kg	510 J	NS

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL		SOIL
	LOCATION	SEAD-16		SEAD-16
	DEPTH (FEET)			
	SAMPLE DATE	12/06/93		12/06/93
	ES ID	FS16-8		FS16-8RE
	LAB ID	206142		206142
UND	UNITS			
GANICS				
	ug/Kg	5100 UJ		5100 UJ
ether	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
ne	ug/Kg	5100 UJ		5100 UJ
ne	ug/Kg	5100 UJ		5100 UJ
ne	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
ropropane)	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
ropylamine	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
l	ug/Kg	5100 UJ		5100 UJ
) methane	ug/Kg	5100 UJ		5100 UJ
l	ug/Kg	5100 UJ		5100 UJ
zene	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
ne	ug/Kg	5100 UJ		5100 UJ
ylphenol	ug/Kg	5100 UJ		5100 UJ
ne	ug/Kg	5100 UJ		5100 UJ
radiene	ug/Kg	5100 UJ		5100 UJ
nol	ug/Kg	5100 UJ		5100 UJ
nol	ug/Kg	12000 UJ		12000 UJ
ne	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	12000 UJ		12000 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	12000 UJ		12000 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	12000 UJ		12000 UJ
	ug/Kg	12000 UJ		12000 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
henylether	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	12000 UJ		12000 UJ
thylphenol	ug/Kg	12000 UJ		12000 UJ
amine	ug/Kg	5100 UJ		5100 UJ
henylether	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	12000 UJ		12000 UJ
	ug/Kg	360 J		1400 J
	ug/Kg	5100 UJ		300 J
	ug/Kg	5100 UJ		5100 UJ
te	ug/Kg	530 J	R	5100 UJ
	ug/Kg	630 J		3200 J
	ug/Kg	720 J		2300 J
e	ug/Kg	310 J	R	5100 UJ
dine	ug/Kg	5100 UJ		5100 UJ
	ug/Kg	330 J		1200 J
	ug/Kg	680 J		1400 J
thalate	ug/Kg	1600 J	R	1300 J
te	ug/Kg	5100 UJ		5100 UJ
ne	ug/Kg	750 J		1200 J
ne	ug/Kg	630 J		1200 J
	ug/Kg	400 J		1000 J
yrene	ug/Kg	5100 UJ		360 J
ene	ug/Kg	5100 UJ		5100 UJ
e	ug/Kg	5100 UJ		580 J

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL		SOIL
	LOCATION	SEAD-16		SEAD-16
	DEPTH (FEET)			
	SAMPLE DATE	12/06/93		12/06/93
	ES ID	FS16-8		FS16-8RE
	LAB ID	206142		206142
OUND	UNITS			
	ug/Kg	39 UJ		NS
	ug/Kg	39 UJ		NS
	ug/Kg	39 UJ		NS
lane)	ug/Kg	39 UJ		NS
	ug/Kg	39 UJ		NS
	ug/Kg	39 UJ		NS
	ug/Kg	39 UJ		NS
	ug/Kg	39 UJ		NS
	ug/Kg	76 UJ		NS
	ug/Kg	180 J		NS
	ug/Kg	76 UJ		NS
	ug/Kg	76 UJ		NS
	ug/Kg	76 UJ		NS
	ug/Kg	76 UJ		NS
	ug/Kg	870 J		NS
	ug/Kg	390 UJ		NS
	ug/Kg	76 UJ		NS
	ug/Kg	76 UJ		NS
	ug/Kg	47 J		NS
	ug/Kg	36 J		NS
	ug/Kg	3900 UJ		NS
	ug/Kg	760 UJ		NS
	ug/Kg	1500 UJ		NS
	ug/Kg	760 UJ		NS
	ug/Kg	760 UJ		NS
	ug/Kg	760 UJ		NS
	ug/Kg	1400 J		NS
	ug/Kg	630 J		NS
	mg/Kg	13700 J		NS
	mg/Kg	93.2 J		NS
	mg/Kg	15.9 J		NS
	mg/Kg	2110 J		NS
	mg/Kg	0.27 J		NS
	mg/Kg	127 J		NS
	mg/Kg	67400 J		NS
	mg/Kg	174 J	R	NS
	mg/Kg	40.6 J		NS
	mg/Kg	757 J		NS
	mg/Kg	48600 J		NS
	mg/Kg	12100 J		NS
	mg/Kg	15700 J		NS
	mg/Kg	458 J		NS
	mg/Kg	3.7 J		NS
	mg/Kg	124 J		NS
	mg/Kg	1360 J		NS
	mg/Kg	0.91 J		NS
	mg/Kg	1.7 UJ		NS
	mg/Kg	302 J		NS
	mg/Kg	0.39 UJ		NS
	mg/Kg	44 J		NS
	mg/Kg	11600 J		NS
	mg/Kg	4.4 J		NS
gen	mg/Kg	0.05		NS
	%W/W	42.9		NS
drocarbons	mg/Kg	NS		NS
	mg/Kg	NS		NS
	standard units	NS		NS

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	SAMPLE DATE	11/19/93	11/17/93	11/17/93	11/17/93	11/17/93
	ES ID	MW16-1	MW16-2	MW16-41	MW16-3	MW16-3RE
	LAB ID	205058	204977	204980	204978	204978
OUND	UNITS			MW16-2DUP		
ICS						
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
e	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
e	ug/L	10 U	10 U	10 U	10 U	NS
e	ug/L	10 U	10 U	10 U	10 U	NS
e (total)	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
e	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
ane	ug/L	10 U	10 U	10 U	10 U	NS
ide	ug/L	10 U	10 U	10 U	10 U	NS
thane	ug/L	10 U	10 U	10 U	10 U	NS
ane	ug/L	10 U	10 U	10 U	10 U	NS
ropene	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
thane	ug/L	10 U	10 U	10 U	10 U	NS
ane	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
ropropene	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
tanone	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
roethane	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	NS	NS	NS	NS	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	2.5 U	2.6 U	2.6 U	2.5 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	0.54 U	0.57 U	0.56 U	0.54 U	NS
	ug/L	110 U	120 U	120 U	110 U	NS
	ug/L	110 U	120 U	120 U	110 U	NS
S						
	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
zene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
ne	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
ene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
nitrotoluene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
nitrotoluene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
e	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	NS
e	ug/L	0.13 U	0.13 U	0.13 U	0.07 J	NS

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	SAMPLE DATE	11/19/93	11/17/93	11/17/93	11/17/93	11/17/93
	ES ID	MW16-1	MW16-2	MW16-41	MW16-3	MW16-3RE
	LAB ID	205058	204977	204960	204976	204978
OUND	UNITS			MW16-2DUP		
RGANICS						
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ether	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
loropropane)	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
-propylamine	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ol	ug/L	11 U	11 U	11 U	11 U	10 UJ
y) methane	ug/L	11 U	11 U	11 U	11 U	10 UJ
ol	ug/L	11 U	11 U	11 U	11 U	10 UJ
nzene	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ne	ug/L	11 U	11 U	11 U	11 U	10 UJ
hylphenol	ug/L	11 U	11 U	11 U	11 U	10 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
entadiene	ug/L	11 U	11 U	11 U	11 U	10 UJ
enol	ug/L	11 U	11 U	11 U	11 U	10 UJ
enol	ug/L	27 U	27 U	27 U	27 U	26 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	27 U	27 U	27 U	27 U	26 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	27 U	27 U	27 U	27 U	26 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	27 U	27 U	27 U	27 U	26 UJ
	ug/L	27 U	27 U	27 U	27 U	26 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	0.5 J	10 UJ
phenylether	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	27 U	27 U	27 U	27 U	26 UJ
ethylphenol	ug/L	27 U	27 U	27 U	27 U	26 UJ
lamine	ug/L	11 U	11 U	11 U	11 U	10 UJ
phenylether	ug/L	11 U	11 U	11 U	11 U	10 UJ
ne	ug/L	11 U	11 U	11 U	11 U	10 UJ
l	ug/L	27 U	27 U	27 U	27 U	26 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ate	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ate	ug/L	11 U	11 U	11 U	11 U	10 UJ
zidine	ug/L	11 U	11 U	11 U	11 U	10 UJ
ne	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
ohthalate	ug/L	12 U	13 U	11 U	24 U	10 UJ
ate	ug/L	11 U	11 U	11 U	11 U	10 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
ene	ug/L	11 U	11 U	11 U	11 U	10 UJ
	ug/L	11 U	11 U	11 U	11 U	10 UJ
pyrene	ug/L	11 U	11 U	11 U	11 U	10 UJ
cene	ug/L	11 U	11 U	11 U	11 U	10 UJ
ne	ug/L	11 U	11 U	11 U	11 U	10 UJ

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-16	SEAD-16	SEAD-16	SEAD-16	SEAD-16
	SAMPLE DATE	11/19/93	11/17/93	11/17/93	11/17/93	11/17/93
	ES ID	MW16-1	MW16-2	MW16-41	MW16-3	MW16-3RE
	LAB ID	205058	204977	204980	204978	204978
POUND	UNITS			MW16-2DUP		
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
ndane)	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
de	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
e	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.53 UJ	0.53 U	0.54 U	0.56 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.11 UJ	0.11 U	0.11 U	0.11 UJ	NS
	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
ne	ug/L	0.053 UJ	0.053 U	0.054 U	0.056 UJ	NS
	ug/L	5.3 UJ	5.3 U	5.4 U	5.6 UJ	NS
	ug/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	NS
	ug/L	2.1 UJ	2.1 U	2.2 U	2.2 UJ	NS
	ug/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	NS
	ug/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	NS
	ug/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	NS
	ug/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	NS
	ug/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	NS
	ug/L	53600	3500	4540	149000	NS
	ug/L	52.5 U	52.4 U	52.7 U	89.6	NS
	ug/L	15.4	1 U	1.3 J	33.2	NS
	ug/L	401	43 J	48.4 J	1170	NS
	ug/L	3.1 J	0.3 U	0.3 U	8.1	NS
	ug/L	3.3 U	3.3 U	3.3 U	3.9 J	NS
	ug/L	239000	114000	117000	477000	NS
	ug/L	88.5	6 J	6.9 J	293	NS
	ug/L	59.9	4.9 U	4.9 U	166	NS
	ug/L	64.2	12.1 J	14.8 J	2150	NS
	ug/L	88100	5310	6400	246000	NS
	ug/L	71.1	27.3	34.5	3240	NS
	ug/L	42000	15200	15900	92000	NS
	ug/L	2110	167	189	6300	NS
	ug/L	0.07 UJ	0.07 UJ	0.07 UJ	3.9 J	NS
	ug/L	135	10.2 J	11.5 J	406	NS
	ug/L	10200	4810 J	4520 J	24800	NS
	ug/L	2.5 J	0.8 U	0.99 J	10.3	NS
	ug/L	6.7 U	6.7 U	6.7 U	6.7 U	NS
	ug/L	7/10	11400	11700	10500	NS
	ug/L	1.8 U	1.8 U	1.8 U	17.8 U	NS
	ug/L	86.5	7.2 J	9.3 J	257	NS
	ug/L	460	30.4	33.4	3370	NS
	ug/L	5 U	5.6 U	5.3 U	5.4 U	NS
ES						
rogen	mg/L	0.11	0.86	0.77	0.23	NS
ydrocarbons	mg/L	NS	NS	NS	NS	NS
	mg/L	NS	NS	NS	NS	NS
	standard units	7.3	7.57	NA	7.7	NS
vity	umhos/cm	575	525	NA	260	NS
	NTU	NA(Cloudy)	NA(Clear)	NA	NA(Silty)	NS

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
STANDING WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER
	LOCATION	SEAD-16	SEAD-16
	SAMPLE DATE	12/06/93	12/06/93
	ES ID	SW16-1	SW16-2
	LAB ID	206187	206188
POUND	UNITS		
NICS			
	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
le	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
ne	ug/L	10 U	10 U
ne	ug/L	10 U	10 U
ne (total)	ug/L	10 U	10 U
	ug/L	10 U	10 U
ne	ug/L	10 U	10 U
	ug/L	10 U	10 U
hane	ug/L	10 U	10 U
ride	ug/L	10 U	10 U
thane	ug/L	10 U	10 U
ane	ug/L	10 U	10 U
propene	ug/L	10 U	10 U
	ug/L	10 U	10 U
thane	ug/L	10 U	10 U
hane	ug/L	10 U	10 U
	ug/L	10 U	10 U
ropropene	ug/L	10 U	10 U
	ug/L	10 U	10 U
ntanone	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
roethane	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	10 U	10 U
	ug/L	NS	NS
	ug/L	1.1 U	1.2 U
	ug/L	1.1 U	1.2 U
	ug/L	0.11 U	0.12 U
	ug/L	0.11 U	0.12 U
	ug/L	2.5 U	2.6 U
	ug/L	0.11 U	0.12 U
	ug/L	1.1 U	1.2 U
	ug/L	0.53 U	0.56 U
	ug/L	110 U	120 U
	ug/L	110 U	120 U
S			
	ug/L	0.13 U	0.17 U
	ug/L	0.13 U	0.13 U
zene	ug/L	0.13 U	0.13 U
ne	ug/L	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U
ene	ug/L	0.13 U	0.13 U
nitrotoluene	ug/L	0.13 U	0.13 U
nitrotoluene	ug/L	0.13 U	0.13 U
e	ug/L	0.13 U	0.13 U
e	ug/L	0.13 U	0.13 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
STANDING WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER
	LOCATION	SEAD-16	SEAD-16
	SAMPLE DATE	12/06/93	12/06/93
	ES ID	SW16-1	SW16-2
	LAB ID	206187	206188
POUND	UNITS		
RGANICS			
	ug/L	11 U	10 U
) ether	ug/L	11 U	10 U
	ug/L	11 U	10 U
ene	ug/L	11 U	10 U
ene	ug/L	11 U	10 U
ene	ug/L	11 U	10 U
	ug/L	11 U	10 U
hloropropane)	ug/L	11 U	10 U
	ug/L	11 U	10 U
-propylamine	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
hol	ug/L	11 U	10 U
xy) methane	ug/L	11 U	10 U
hol	ug/L	11 U	10 U
nzene	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
ene	ug/L	11 U	10 U
thylphenol	ug/L	11 U	10 U
lene	ug/L	11 U	10 U
entadiene	ug/L	11 U	10 U
enol	ug/L	11 U	10 U
enol	ug/L	27 U	26 U
lene	ug/L	11 U	10 U
	ug/L	27 U	26 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
e	ug/L	11 U	10 U
	ug/L	27 U	26 U
	ug/L	11 U	10 U
t	ug/L	27 U	26 U
	ug/L	27 U	26 U
	ug/L	11 U	10 U
e	ug/L	11 U	10 U
	ug/L	11 U	10 U
-phenylether	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	27 U	26 U
ethylphenol	ug/L	27 U	26 U
ylamine	ug/L	11 U	10 U
-phenylether	ug/L	11 U	10 U
ne	ug/L	11 U	10 U
l	ug/L	27 U	26 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
late	ug/L	11 U	10 U
	ug/L	11 U	10 U
	ug/L	11 U	10 U
ate	ug/L	11 U	10 U
zidine	ug/L	11 U	10 U
ne	ug/L	11 U	10 U
	ug/L	11 U	10 U
ohthalate	ug/L	11 U	10 U
ate	ug/L	11 U	10 U
ene	ug/L	11 U	10 U
ene	ug/L	11 U	10 U
	ug/L	11 U	10 U
pyrene	ug/L	11 U	10 U
cene	ug/L	11 U	10 U
ne	ug/L	11 U	10 U

SENECA ARMY DEPOT
SEAD-16 EXPANDED SITE INSPECTION
STANDING WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER
	LOCATION	SEAD-16	SEAD-16
	SAMPLE DATE	12/06/93	12/06/93
	ES ID	SW16-1	SW16-2
	LAB ID	206167	206166
OUND	UNITS		
	ug/L	0.056 U	0.052 U
	ug/L	0.056 U	0.052 U
	ug/L	0.056 U	0.052 U
dane)	ug/L	0.056 U	0.052 U
	ug/L	0.056 U	0.052 U
	ug/L	0.056 U	0.052 U
e	ug/L	0.056 U	0.052 U
	ug/L	0.056 U	0.052 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.56 U	0.52 U
	ug/L	0.11 U	0.1 U
	ug/L	0.11 U	0.1 U
	ug/L	0.056 U	0.052 U
e	ug/L	0.056 U	0.052 U
	ug/L	5.6 U	5.2 U
	ug/L	1.1 U	1 U
	ug/L	2.2 U	2.1 U
	ug/L	1.1 U	1 U
	ug/L	1.1 U	1 U
	ug/L	1.1 U	1 U
	ug/L	1.1 U	1 U
	ug/L	1.1 U	1 U
	ug/L	152 J	261
	ug/L	21.5 U	21.4 U
	ug/L	0.8 U	0.8 U
	ug/L	60.6 J	84.5 J
	ug/L	0.4 U	0.4 U
	ug/L	2.1 U	2.1 U
	ug/L	71700	53400
	ug/L	2.6 U	2.6 U
	ug/L	4.4 U	4.4 U
	ug/L	19.3 J	67.6
	ug/L	281 R	551 R
	ug/L	67.8	178
	ug/L	9590	8170
	ug/L	8.7 J	33.9
	ug/L	0.1 J	0.19 J
	ug/L	4 U	5.2 J
	ug/L	2580 J	3120 J
	ug/L	1.1 J	0.7 U
	ug/L	4.2 U	5.2 J
	ug/L	9220	8850
	ug/L	1.2 U	1.2 U
	ug/L	3.7 J	4.5 J
	ug/L	34.7	380
	ug/L	5 U	5 U
S			
ogen	mg/L	1.27	1.77
ydrocarbons	mg/L	NS	NS
	mg/L	NS	NS
	standard units	NA	NA
ity	umhos/cm	NA	NA
	NTU	NA	NA

TABLE 4.2–4
SENECA ARMY DEPOT
SEAD–16 EXPANDED SITE INSPECTION
BULK SAMPLE ASBESTOS ANALYSIS RESULTS

ES Sample ID	Asbestos (% Type)	Other Material
AS16–1	15 – 25 % Chrysotile 35 – 45 % Amosite	Binder
AS16–2	Not Detected	25 – 35 % Cellulose Binder Carbonate
AS16–3	10 – 15 % Chrysotile 45 – 55 % Amosite	Binder
AS16–4	Not Detected	35 – 45 % Cellulose Binder Carbonate
AS16–5	25 – 35 % Chrysotile	Binder Carbonate
AS16–6	25 – 35 % Chrysotile	Binder Carbonate
AS16–7	5 – 10 % Chrysotile	10 – 15 % Cellulose Tar
AS16–8	Not Detected	< 1 % Cellulose Binder Quartz
AS16–9	Not Detected	< 1 % Fiberglass 10 – 15 % Cellulose Binder Quartz
AS16–10	Not Detected	75 – 85 % Fiberglass Binder
AS16–11	Not Detected	< 1 % Fiberglass Binder
AS16–12	Not Detected	25 – 35 % Cellulose Binder
AS16–13	Not Detected	10 – 15 % Cellulose Binder
AS16–14	Not Detected	25 – 35 % Cellulose Binder
AS16–15	Not Detected	25 – 35 % Cellulose Binder
AS16–16	Not Detected	15 – 25 % Cellulose Binder Carbonate

SEAD-17

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/20/93
	ES ID	SS17-1	SS17-2	SS17-3	SS17-4	SS17-5	SS17-6	SS17-7	SS17-6	SS17-9
	LAB ID	202037	202038	202039	202040	202041	202042	202043	202044	201895
UND	UNITS									
CS										
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
(total)	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
ne	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
e	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
ane	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
e	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
opene	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
ane	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
ne	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
propene	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
none	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
ethane	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	4 J
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	12 U	13 U	13 U	12 U	14 U	10 U	12 U	12 U	10 UJ
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	63 U	67 U	65 U	62 U	65 U	52 U	62 U	62 U	52 U
	ug/Kg	63 U	67 U	65 U	62 U	65 U	52 U	62 U	62 U	52 U
	ug/Kg	6.3 U	6.7 U	6.5 U	6.2 U	6.5 U	5.2 U	6.2 U	6.2 U	5.2 U
	ug/Kg	6.3 U	6.7 U	6.5 U	6.2 U	6.5 U	5.2 U	6.2 U	6.2 U	5.2 U
	ug/Kg	150 U	160 U	160 U	150 U	160 U	130 U	150 U	150 U	130 U
	ug/Kg	6.3 U	6.7 U	6.5 U	6.2 U	6.5 U	5.2 U	6.2 U	6.2 U	5.2 U
	ug/Kg	63 U	67 U	65 U	62 U	65 U	52 U	62 U	62 U	52 U
	ug/Kg	32 U	34 U	33 U	31 U	33 U	26 U	31 U	31 U	26 U
	ug/Kg	16000	6700 U	6500 U	6200 U	34000	5200 U	12000	6200 U	5200 U
	ug/Kg	6300 U	6700 U	6500 U	6200 U	6500 U	5200 U	6200 U	6200 U	5200 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ne	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
e	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
trotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
trotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	130 U	170	130 U	130 U	130 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/20/93
	ES ID	SS17-1	SS17-2	SS17-3	SS17-4	SS17-5	SS17-6	SS17-7	SS17-8	SS17-9
	LAB ID	202037	202038	202039	202040	202041	202042	202043	202044	201895
UND	UNITS									
ANICS										
	ug/Kg	120 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ther	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
e	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
e	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
e	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ropropane)	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ropylamine	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
) methane	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
zene	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
e	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ylphenol	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ne	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
tadiene	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ol	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ol	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
ne	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	70 J	430 U	340 U	410 U	410 U	340 U
	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	1400	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
henylether	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
hylphenol	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
mine	ug/Kg	420 U	450 U	430 U	27 J	430 U	340 U	410 U	410 U	340 U
henylether	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	1000 U	1100 U	1000 U	990 U	1000 U	830 U	990 U	1000 U	830 U
	ug/Kg	120 J	450 U	430 U	33 J	430 U	36 J	410 U	46 J	31 J
	ug/Kg	23 J	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
e	ug/Kg	51 J	76 J	45 J	89 J	87 J	60 J	97 J	35 J	340 U
	ug/Kg	190 J	47 J	430 U	54 J	33 J	48 J	21 J	71 J	41 J
	ug/Kg	170 J	47 J	430 U	44 J	33 J	43 J	410 U	63 J	37 J
e	ug/Kg	420 U	450 U	430 U	410 U	430 U	37 J	410 U	410 U	340 U
dine	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
	ug/Kg	72 J	23 J	430 U	22 J	430 U	19 J	410 U	30 J	16 J
	ug/Kg	75 J	29 J	430 U	32 J	430 U	31 J	410 U	36 J	28 J
thalate	ug/Kg	530	330 J	290 J	390 J	600	340 U	850	410 U	340 U
e	ug/Kg	420 U	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ne	ug/Kg	70 J	28 J	430 U	28 J	430 U	28 J	410 U	27 J	17 J
e	ug/Kg	49 J	450 U	430 U	410 U	430 U	18 J	410 U	23 J	17 J
	ug/Kg	58 J	24 J	430 U	410 U	430 U	340 U	410 U	24 J	340 U
rene	ug/Kg	62 J	30 J	430 U	410 U	430 U	340 U	410 U	410 U	340 U
ene	ug/Kg	40 J	450 U	430 U	410 U	430 U	340 U	410 U	410 U	340 U
e	ug/Kg	63 J	31 J	430 U	28 J	22 J	340 U	410 U	410 U	340 U

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	10/20/93
	ES ID	SS17-1	SS17-2	SS17-3	SS17-4	SS17-5	SS17-6	SS17-7	SS17-8	SS17-9
	LAB ID	202037	202038	202039	202040	202041	202042	202043	202044	201895
OUND	UNITS									
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
lane)	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	4.1 U	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	5.2	4.4 U	4.3 U	22	4.3 U	11	3.2 J	3.4 J	8.8
	ug/Kg	4.1 U	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	4.1 U	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	4.7 J	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	4.1 U	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	4.1 U	4.4 U	4.3 U	2.6 J	4.3 U	1.9 J	4 U	4.1 U	3.4 U
	ug/Kg	21 U	23 U	22 U	21 U	22 U	18 U	21 U	21 U	18 U
	ug/Kg	4.1 U	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	4.1 U	4.4 U	4.3 U	4.1 U	4.3 U	3.4 U	4 U	4.1 U	3.4 U
	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
s	ug/Kg	2.1 U	2.3 U	2.2 U	2.1 U	2.2 U	1.8 U	2.1 U	2.1 U	1.8 U
	ug/Kg	210 U	230 U	220 U	210 U	220 U	180 U	210 U	210 U	180 U
	ug/Kg	41 U	44 U	43 U	41 U	43 U	34 U	40 U	41 U	34 U
	ug/Kg	84 U	90 U	86 U	83 U	87 U	70 U	82 U	84 U	70 U
	ug/Kg	41 U	44 U	43 U	41 U	43 U	34 U	40 U	41 U	34 U
	ug/Kg	41 U	44 U	43 U	41 U	43 U	34 U	40 U	41 U	34 U
	ug/Kg	41 U	44 U	43 U	41 U	43 U	34 U	40 U	41 U	34 U
	ug/Kg	41 U	44 U	43 U	41 U	43 U	34 U	40 U	41 U	34 U
	ug/Kg	41 U	44 U	43 U	41 U	43 U	34 U	40 U	41 U	34 U
	mg/Kg	11800	14900	15200	10800	17300	10900	16600	14300	3790
	mg/Kg	12.9 U R	10.4 U R	13.6 U R	12.5 U R	10 U R	12.9 R	8.2 J R	7.4 J R	10.7
	mg/Kg	6	5.4	5	6.6	7.4	16.1	8.2	8.5	4.6
	mg/Kg	102 R	122 R	102 R	192 R	146 R	352 R	447 R	337 R	78.7
	mg/Kg	0.5 J	0.58 J	0.42 J	0.52 J	0.81 J	0.5 J	0.76 J	0.69	0.18 J
	mg/Kg	2.3	1.6	2.2	4.9	3.7	9.9	7.3	5.1	6.3
	mg/Kg	99300	2830	2160	117000	2740	89300	3780	110000	177000
	mg/Kg	16.6	19	16.8	16.3	23.6	22.5	23.4	23.9	10
	mg/Kg	6.1 J	6.4 J	5.7 J	10.4 J	9.6	11.3	14.7	13.6	4.7 J
	mg/Kg	81	54.4	39.3	249	73	362	423	654	136
	mg/Kg	16400	20800	19300	19400	25000	24300	26400	27600	8020
	mg/Kg	594	371	375	1680	577	3150	2310	2190	1340
	mg/Kg	7430	3110	2540	6900	3670	6640	4520	8380	17300
	mg/Kg	430	319	277	431	737	399	431	590	270 J
	mg/Kg	0.07 J	1 J	0.07 J	0.07 J	0.9 J	0.06 J	0.1 J	0.09 J	0.04 J
	mg/Kg	19.6	18.3	14.1	28	24.9	37.7	29.1	43.7	16.4
	mg/Kg	1500	1080	1060 J	1380	1520	1420	1370	1520	1110
	mg/Kg	0.26 J	0.27 UJ	0.37 J	0.36 J	0.23 UJ	0.68 J	0.25 UJ	0.16 J	0.21 J
	mg/Kg	1.6 UJ	1.3 UJ	1.7 UJ	1.6 UJ	1.3 UJ	2.8 J	1 UJ	4 J	5.5
	mg/Kg	147 J	33.7 J	33.5 J	144 J	53.1 J	168 J	66.9 J	144 J	247 J
	mg/Kg	0.24 U	0.3 U	0.26 U	0.25 U	0.25 U	2 U	0.27 U	0.22 J	0.17 U
	mg/Kg	21	26.6	29.2	17.5	29.7	16.3	28.6	22.2	6.9
	mg/Kg	200	136	129	324	237	497	437	613	120
	mg/Kg	0.74 U	0.79 U	0.75 U	0.68 U	0.78 U	0.46 U	0.61 U	0.59 U	0.59 U
s										
ogen	mg/Kg	0.21	0.67	0.13	0.51	0.17	3.6	0.15	0.08	3.5
	%W/W	79.5	73.7	76.8	81.3	76.9	95.7	80.9	79.8	96.5
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0--0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	11/09/93	11/09/93	10/21/93	10/20/93	10/21/93	10/20/93	10/21/93	10/21/93	10/22/93
	ES ID	SS17-10	SS17-11	SS17-12	SS17-13	SS17-14	SS17-15	SS17-16	SS17-17	SS17-18
	LAB ID	204035	204037	202047	201896	202048	201897	202049	202050	202051
OUND	UNITS									
ICS										
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	4 J	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	7 J	11 U	11 U R	13 U	72 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
e	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
e	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
e (total)	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
e	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
ane	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
de	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
hane	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
ne	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
ropene	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
hane	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
ane	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
opropene	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
tanone	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
oethane	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	1 J	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	11 U	13 U	12 U	11 U	11 U	11 U R	13 U	14 U	13 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	53 U	63 U	59 U	54 U	53 U	53 U	68 U	66 U	66 UJ
	ug/Kg	53 U	63 U	59 U	54 U	53 U	53 U	68 U	66 U	66 U
	ug/Kg	5.3 U	6.3 U	5.9 U	5.4 U	5.3 U	5.3 U	6.8 U	6.6 U	6.6 U
	ug/Kg	5.3 U	6.3 U	5.9 U	5.4 U	5.3 U	5.3 U	6.8 U	6.6 U	6.6 UJ
	ug/Kg	130 U	150 U	150 U	130 U	130 U	130 U	170 U	160 U	160 U
	ug/Kg	5.3 U	6.3 U	5.9 U	5.4 U	5.3 U	5.3 U	6.8 U	6.6 U	6.6 U
	ug/Kg	53 U	63 U	59 U	54 U	53 U	53 U	68 U	66 U	66 U
	ug/Kg	27 U	32 U	30 U	27 U	27 U	27 U	34 U	33 U	33 U
	ug/Kg	5300 U	6300 U	5900 U	5400 U	5300 U	5300 U	6800 U	32000	6600 U
	ug/Kg	5300 U	6300 U	5900 U	5400 U	5300 U	5300 U	6800 U	6600 U	6600 U
S										
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
ene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
e	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
ne	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
nitrotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
nitrotoluene	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
	ug/Kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U R
	ug/Kg	330 J	130 U	130 U	130	130 U	130 U	130 U	130 U	130 U R

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	11/09/93	11/09/93	10/21/93	10/20/93	10/21/93	10/20/93	10/21/93	10/21/93	10/22/93
	ES ID	SS17-10	SS17-11	SS17-12	SS17-13	SS17-14	SS17-15	SS17-16	SS17-17	SS17-18
	LAB ID	204035	204037	202047	201896	202048	201897	202049	202050	202051
UND	UNITS									
GANICS										
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ther	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ne	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ne	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ne	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
opropane)	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ropylamine	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
l	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
) methane	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
l	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
zene	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ne	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ylphenol	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ne	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
tadiene	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
nol	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
nol	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
ne	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	61 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	24 J
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
henylether	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
thylphenol	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
amine	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
henylether	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
e	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	850 U	1000 U	940 U	860 U	850 UJ	850 U R	1100 U	1100 U	1100 U
	ug/Kg	72 J	420 U	390 U	19 J	350 UJ	350 U R	450 U	430 U	48 J
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
te	ug/Kg	48 J	66 J	210 J	21 J	350 UJ	350 U R	340 J	480	500
	ug/Kg	150 J	420 U	390 U	19 J	350 UJ	350 U R	31 J	23 J	88 J
	ug/Kg	110 J	26 J	390 U	17 J	350 UJ	350 U R	28 J	430 U	73 J
e	ug/Kg	46 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
dine	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
e	ug/Kg	38 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	31 J
	ug/Kg	78 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	55 J
nthalate	ug/Kg	810 U	1300	390 U	460 J	50 J	350 U R	450 U	430 U	1200
te	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
ne	ug/Kg	50 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	46 J
ne	ug/Kg	38 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	37 J
	ug/Kg	32 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	31 J
yrene	ug/Kg	25 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	40 J
ene	ug/Kg	350 U	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	430 U
e	ug/Kg	27 J	420 U	390 U	350 U	350 UJ	350 U R	450 U	430 U	42 J

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	
	SAMPLE DATE	11/09/93	11/09/93	10/21/93	10/20/93	10/21/93	10/20/93	10/21/93	10/21/93	10/22/93	
	ES ID	SS17-10	SS17-11	SS17-12	SS17-13	SS17-14	SS17-15	SS17-16	SS17-17	SS17-18	
	LAB ID	204035	204037	202047	201896	202048	201897	202049	202050	202051	
UND	UNITS										
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
ane)	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	1.1 J	
	ug/Kg	1.8 U	2.2 U	2 U	0.78 J	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	3.5 U	62	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	37	4.2 U	2.9 J	11 J	2.7 J	3.5 U	4.5 U	4.3 U	17	
	ug/Kg	3.5 U	4.2 U	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	3.5 U	4.2 U	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	3.5 U	4.2 U	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	3.5 U	4.2 U	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	10	4.2 U	3.9 U	4.9 J	3.5 U	3.5 U	4.5 U	4.3 U	7	
	ug/Kg	18 U	22 U	20 U	18 UJ	18 U	18 U	23 U	22 U	22 U	
	ug/Kg	3.5 U	4.2 U	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	3.5 U	4.2 U	3.9 U	3.5 UJ	3.5 U	3.5 U	4.5 U	4.3 U	4.3 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	1.8 U	2.2 U	2 U	1.8 UJ	1.8 U	1.8 U	2.3 U	2.2 U	2.2 U	
	ug/Kg	180 U	220 U	200 U	180 UJ	180 U	180 U	230 U	220 U	220 U	
	ug/Kg	35 U	42 U	39 U	35 UJ	35 U	35 U	45 U	43 U	43 U	
	ug/Kg	71 U	85 U	79 U	72 UJ	71 U	71 U	91 U	86 U	86 U	
	ug/Kg	35 U	42 U	39 U	35 UJ	35 U	35 U	45 U	43 U	43 U	
	ug/Kg	35 U	42 U	39 U	35 UJ	35 U	35 U	45 U	43 U	43 U	
	ug/Kg	35 U	42 U	39 U	35 UJ	35 U	35 U	45 U	43 U	43 U	
	ug/Kg	35 U	42 U	39 U	35 UJ	35 U	35 U	45 U	43 U	43 U	
	ug/Kg	35 U	42 U	39 U	35 UJ	35 U	35 U	45 U	43 U	43 U	
	mg/Kg	9990 J	14200	13100	10700	4860	12800	17300	14100	14400	1
	mg/Kg	52 J	12.4 U	10.9 U R	39.2	11.4 J R	9.8 U	12.4 U R	11.6 U R	15.3 R	
	mg/Kg	7 J	4.5 J	6.5	6.7	10.6	6.1	6.5	5.7	6.4	
	mg/Kg	357 J	189	203 R	343	199 R	122	210 R	132 R	452 R	
	mg/Kg	0.48 J	0.73 J	0.59 J	0.5 J	0.34 J	0.54 J	0.82 J	0.74 J	0.71	
	mg/Kg	21.7 R	1.2 R	4.5	6.3	10.8	0.93 J	2.3	2	14.3	
	mg/Kg	113000 J	4670	38400	104000	209000	37800	4760	3400	39800	2
	mg/Kg	21.3 J	19.7	20	23.6	9.8	23.1	23	19.7	23.9	
	mg/Kg	9.9 J	9.3 J	12.3	8 J	5.6 J	12	7.7 J	21.9	11.9	
	mg/Kg	546 J	60.7 J	202	404	499	94.5	182	47.8	409	
	mg/Kg	21600 J	23100	23600	19500	11100	27500	24200	23400	25300	2
	mg/Kg	6340 R	329	1210	2940	1310	472	595	373	2780	
	mg/Kg	9830 J	3640	6600	8690	6330	6660	4170	3520	7590	
	mg/Kg	392 J	685	595	314 J	221	324 J	613	860	525	
	mg/Kg	0.03 UJ	0.07 J	0.07 J	0.03 J	0.1 J	0.05 J	0.36 J	0.07 J	0.09 J	
	mg/Kg	34.6 J	21.3	33.9	31.9	26.5	43.5	25.2	23.5	39.5	
	mg/Kg	1350 J	1210	1260	1610	1370	1610	1810	1070 J	1570	
	mg/Kg	1.6 J	0.64 J	0.23 UJ	0.47 J	0.34 J	0.2 J	0.25 UJ	0.25 UJ	0.19 J	
	mg/Kg	4.6 J	1.6 UJ	1.4 UJ	5.2	3.8 J	1.2 U	1.6 UJ	1.5 UJ	4.7 J	
	mg/Kg	197 J	49.8 J	121 J	249 J	179 J	167 J	56.6 J	71.3 J	109 J	
	mg/Kg	0.22 UJ	0.22 UJ	0.25 U	0.21 U	1.3 U	0.21 U	0.27 U	0.28 U	0.19 U	
	mg/Kg	15.3 J	25.9	20	17.7	10.2 J	16.3	29.8	25.5	23.6	
	mg/Kg	620 J	110 J	574	315	460	155	150	140	1530	
	mg/Kg	0.51 UJ	0.6 U	0.58 U	0.62 U	0.53 U	0.62 U	0.64 U	0.65 U	0.63 U	
gen	mg/Kg	0.1	2.4	0.06	0.81	1.1	0.84	0.21	0.14	0.13	
	%W/W	93.7	78.8	65	92.6	93.8	94.2	73.5	75.7	76.2	
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS	

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-2	2-4	4-6
	SAMPLE DATE	10/22/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	12/01/93	12/01/93	12/01/93
	ES ID	SS17-24RE	SS17-19	SS17-20	SS17-21	SS17-22	SS17-23	SB17-1.1	SB17-1.2	SB17-1.3
	LAB ID	202077	202053	202054	202055	202075	202076	205914	205915	205916
OUND	UNITS	SS17-18DUP								
CS										
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	8 J	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	41 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
e	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
e	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
e (total)	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
e	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
ane	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
de	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
hane	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
ne	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
ropene	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
hane	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
ane	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
opropene	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
anone	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
oethane	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	13 UJ	16 U	12 U	14 U	14 U	14 U	12 U	12 U	11 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	69 U	65 U	66 U	65 U	66 U	64 U	58 U	54 U
	ug/Kg	NS	69 U	65 U	66 U	65 U	66 U	64 U	58 U	54 U
	ug/Kg	NS	6.9 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	5.8 U	5.4 U
	ug/Kg	NS	6.9 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	5.8 U	5.4 U
	ug/Kg	NS	170 U	160 U	160 U	160 U	160 U	160 U	140 U	130 U
	ug/Kg	NS	6.9 U	6.5 U	6.6 U	6.5 U	6.6 U	6.4 U	5.8 U	5.4 U
	ug/Kg	NS	69 U	65 U	66 U	65 U	66 U	64 U	58 U	54 U
	ug/Kg	NS	69 U	33 U	33 U	33 U	33 U	32 U	29 U	27 U
	ug/Kg	NS	6900 U	6500 U	6600 U	6500 U	6600 U	6400 U	5800 U	5400 U
	ug/Kg	NS	8900 U	6500 U	6600 U	6500 U	6600 U	6400 U	5800 U	5400 U
s										
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ene	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
e	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ne	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-2	2-4	4-6
	SAMPLE DATE	10/22/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	12/01/93	12/01/93	12/01/93
	ES ID	SS17-24RE	SS17-19	SS17-20	SS17-21	SS17-22	SS17-23	SB17-1.1	SB17-1.2	SB17-1.3
	LAB ID	202077	202053	202054	202055	202075	202076	205914	205915	205916
OUND	UNITS	SS17-18DUP								
GANICS										
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ether	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ne	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ne	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ne	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
oropropane)	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
-propylamine	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ol	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
y) methane	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ol	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
nzene	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ne	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
hylphenol	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ene	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ntadiene	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
enol	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
enol	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
ene	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
phenylether	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
ethylphenol	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
lamine	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
phenylether	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
e	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	5500 U	1000 U	1100 U	1000 U	1000 U	1000 U	920 U	870 U
	ug/Kg	NS	2300 U	420 U	430 U	20 J	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ate	ug/Kg	NS	1200 J	510	760	430 U	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	49 J	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	40 J	430 U	420 U	380 U	360 U
te	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
idine	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
e	ug/Kg	NS	2300 U	420 U	430 U	21 J	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	28 J	430 U	420 U	380 U	360 U
hthalate	ug/Kg	NS	2300 U	420 U	200 J	430 U	430 U	42 J	380 U	21 J
ate	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ene	ug/Kg	NS	2300 U	420 U	430 U	28 J	430 U	420 U	380 U	360 U
ene	ug/Kg	NS	2300 U	420 U	430 U	21 J	430 U	420 U	380 U	360 U
	ug/Kg	NS	2300 U	420 U	430 U	21 J	430 U	420 U	380 U	360 U
yrene	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ene	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U
ne	ug/Kg	NS	2300 U	420 U	430 U	430 U	430 U	420 U	380 U	360 U

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-2	2-4	4-6
	SAMPLE DATE	10/22/93	10/21/93	10/21/93	10/21/93	10/21/93	10/21/93	12/01/93	12/01/93	12/01/93
	ES ID	SS17-24RE	SS17-19	SS17-20	SS17-21	SS17-22	SS17-23	SB17-1.1	SB17-1.2	SB17-1.3
	LAB ID	202077	202053	202054	202055	202075	202076	205914	205915	205916
UND	UNITS	SS17-18DUP								
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
lane)	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	2.5 J	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	15	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	23 U	22 U	22 U	22 U	22 U	22 U	19 U	18 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	4.5 U	4.2 U	4.3 U	4.3 U	4.3 U	4.2 U	3.8 U	3.6 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.9 U	1.8 U
	ug/Kg	NS	230 U	220 U	220 U	220 U	220 U	220 U	190 U	180 U
	ug/Kg	NS	45 U	42 U	43 U	43 U	43 U	42 U	38 U	36 U
	ug/Kg	NS	92 U	66 U	88 U	87 U	87 U	85 U	76 U	72 U
	ug/Kg	NS	45 U	42 U	43 U	43 U	43 U	42 U	38 U	36 U
	ug/Kg	NS	45 U	42 U	43 U	43 U	43 U	42 U	38 U	36 U
	ug/Kg	NS	45 U	42 U	43 U	43 U	43 U	42 U	38 U	36 U
	ug/Kg	NS	45 U	42 U	43 U	43 U	43 U	42 U	61	36 U
	ug/Kg	NS	45 U	21 J	28 J	43 U	43 U	42 U	38 U	36 U
	mg/Kg	NS	15500	13900	14400	18100	15700	13700	18100	8700
	mg/Kg	NS	9 U R	8.7 U R	11 U R	12.8 UJ	13.1 UJ	11.7 UJ	11.8 UJ	9 UJ
	mg/Kg	NS	6.3	6.5	6.9	5.9	5.3	4.3	5.2	3.4
	mg/Kg	NS	149 R	96.2 R	96.5 R	127	92.6	107	114	59.4
	mg/Kg	NS	0.83 J	0.71 J	0.74 J	0.8 J	0.72 J	0.7 J	0.9 J	0.42 J
	mg/Kg	NS	2.9	0.54 U	0.69 U	1.5	0.82 U	0.73 U	0.74 U	0.56 U
	mg/Kg	NS	4210	6230	3910	6900	2510	2870	20900	72800
	mg/Kg	NS	22.9	21.4	23.2	23.8	20.3	17.6	25.1	13.9
	mg/Kg	NS	10.2	11.1	12.4	9.9 J	9.4 J	9.9 J	13.3	8.8
	mg/Kg	NS	61.7	26.9	25.9	52 J	22.6 J	46.4	26.9	20
	mg/Kg	NS	25500	28700	28800	24700	22700	25100	29900	18800
	mg/Kg	NS	402	69.2	44.9	226	111	266	11.4 J	7.5 J
	mg/Kg	NS	4260	4770	4930	4880	3720	3330	8490	18100
	mg/Kg	NS	741	602	657	662	598	547	487	391
	mg/Kg	NS	0.07 J	0.08 J	0.06 J	0.06 J	0.04 J	0.05 J	0.06 J	0.03 UJ
	mg/Kg	NS	30.2	31	35.6	27	22.6	19.1	42	25.2
	mg/Kg	NS	1610	1270	1410	1960	1430	628 J	1560	1090
	mg/Kg	NS	0.23 UJ	0.18 UJ	0.2 UJ	0.24 UJ	0.26 UJ	0.25 UJ	0.24 UJ	0.14 UJ
	mg/Kg	NS	1.1 UJ	1.1 UJ	1.4 UJ	1.6 U	1.7 U	1.5 U	1.5 U	1.1 U
	mg/Kg	NS	59.5 J	40.4 J	36.3 J	87 J	46 J	46.2 J	74.6 J	137 J
	mg/Kg	NS	0.25 U	0.2 U	0.22 U	0.26 U	0.29 U	0.28 UJ	0.26 UJ	0.15 UJ
	mg/Kg	NS	26.3	24	24.1	30.1	26.4	23.1	27	13.9
	mg/Kg	NS	351	71.6	63.9	196	75.5	93.4	80.2	57.1
	mg/Kg	NS	0.66 U	0.61 U	0.65 U	0.11 U	0.1 U	NA	NA	NA
gen	mg/Kg	NS	0.2	0.22	0.24	0.09	0.07	0.15	0.33	0.24
	%W/W	NS	73.3	78.3	76.4	75.8	76.2	78.4	66.6	92.2
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-2	2-4	2-4	0-2	2-4	0-2	2-4
	SAMPLE DATE	10/27/93	10/27/93	10/27/93	11/30/93	11/30/93	11/30/93	11/30/93
	ES ID	SB17-2.1RE	SB17-2.2	SB17-2.10	SB17-3.1	SB17-3.2	SB17-4.1	SB17-4.2
	LAB ID	202502	202503	202505	205877	205878	205879	205880
OUND	UNITS			SS17-2.2DUP				
CS								
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
e	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
e	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
e (total)	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
e	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
ane	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
de	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
hane	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
ne	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
ropene	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
hane	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
ane	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
opropene	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
anone	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
oethane	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	12 UJ	12 U	13 U	12 U	13 U	12 U	12 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	58 U	58 U	61 U	59 U	59 U	54 U
	ug/Kg	NS	58 U	58 U	61 U	59 U	59 U	54 U
	ug/Kg	NS	5.8 U	5.8 U	6.1 U	5.9 U	5.9 U	5.4 U
	ug/Kg	NS	5.8 U	5.8 U	6.1 U	5.9 U	5.9 U	5.4 U
	ug/Kg	NS	140 U	140 U	150 U	140 U	150 U	130 U
	ug/Kg	NS	5.8 U	5.8 U	6.1 U	5.9 U	5.9 U	5.4 U
	ug/Kg	NS	58 U	58 U	61 U	59 U	59 U	54 U
	ug/Kg	NS	29 U	29 U	31 U	30 U	30 U	27 U
	ug/Kg	NS	5800 U	5800 U	6100 U	5900 U	5900 U	5400 U
	ug/Kg	NS	5800 U	5800 U	6100 U	5900 U	5900 U	5400 U
s								
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
ene	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
e	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
ne	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	NS	130 U	130 U	130 U	130 U	130 U	130 U

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-2	2-4	2-4	0-2	2-4	0-2	2-4
	SAMPLE DATE	10/27/93	10/27/93	10/27/93	11/30/93	11/30/93	11/30/93	11/30/93
	ES ID	SB17-2.1RE	SB17-2.2	SB17-2.10	SB17-3.1	SB17-3.2	SB17-4.1	SB17-4.2
	LAB ID	202502	202503	202505	205877	205878	205879	205880
UND	UNITS			SS17-2.2DUP				
GANICS								
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ether	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
propropane)	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
propylamine	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
l	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
) methane	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
l	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
zene	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ylphenol	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ntadiene	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
nol	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
nol	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
henylether	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	370 U
thylphenol	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
amine	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
henylether	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
e	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	930 U	920 U	980 U	940 U	950 U	870 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
te	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
te	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
dine	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
e	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
thalate	ug/Kg	NS	490	480	93 J	72 J	59 J	27 J
te	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ne	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
yrene	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
ene	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U
e	ug/Kg	NS	380 U	380 U	400 U	390 U	390 U	360 U

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	DEPTH (FEET)	0-2	2-4	2-4	0-2	2-4	0-2	2-4
	SAMPLE DATE	10/27/93	10/27/93	10/27/93	11/30/93	11/30/93	11/30/93	11/30/93
	ES ID	SB17-2.1RE	SB17-2.2	SB17-2.10	SB17-3.1	SB17-3.2	SB17-4.1	SB17-4.2
	LAB ID	202502	202503	202505	205877	205878	205879	205880
UND	UNITS			SS17-2.2DUP				
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
ane)	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.6 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.6 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.6 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.6 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.3 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.8 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.3 U
	ug/Kg	NS	20 U	19 U	21 U	20 U	20 U	18 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.6 U
	ug/Kg	NS	3.8 U	3.8 U	4 U	3.9 U	3.9 U	3.6 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	2 U	1.9 U	2.1 U	2 U	2 U	1.8 U
	ug/Kg	NS	200 U	190 U	210 U	200 U	200 U	180 U
	ug/Kg	NS	38 U	38 U	40 U	39 U	39 U	36 U
	ug/Kg	NS	78 U	77 U	82 U	79 U	80 U	73 U
	ug/Kg	NS	38 U	38 U	40 U	39 U	39 U	36 U
	ug/Kg	NS	38 U	38 U	40 U	39 U	39 U	36 U
	ug/Kg	NS	38 U	38 U	40 U	39 U	39 U	36 U
	ug/Kg	NS	38 U	38 U	40 U	39 U	39 U	36 U
	ug/Kg	NS	38 U	38 U	40 U	39 U	39 U	36 U
	mg/Kg	NS	15600	14100	19300	13200	15100	11600
	mg/Kg	NS	11.8 UJ	9.6 UJ	6.9 UJ	11.9 UJ	6.9 UJ	6.1 UJ
	mg/Kg	NS	6.9	6.3	4.1	5.4	4.9	5.7
	mg/Kg	NS	86.5	71.4	104	73.7	89.2	51.6
	mg/Kg	NS	0.58 J	0.58 J	0.99	0.63 J	0.72	0.56 J
	mg/Kg	NS	0.74 U	0.6 U	0.43 U	0.74 U	0.43 U	0.38 U
	mg/Kg	NS	44200	115000	2620	4920	3640	18100
	mg/Kg	NS	23.3	20.3	27.9	20.1	21.6	18.4
	mg/Kg	NS	9.4 J	9.6	21.7	9 J	9.5	11
	mg/Kg	NS	18.5	21.5	25.9	26.9	24	22.7
	mg/Kg	NS	26700	24900	36100	25800	27700	25600
	mg/Kg	NS	13	11.2	24.6 J	21.2 J	12 J	11.7 J
	mg/Kg	NS	8380	8370	5820	4600	5170	7890
	mg/Kg	NS	409	1160	1080	338	274	403
	mg/Kg	NS	0.04 J	0.04 J	0.06 J	0.04 J	0.04 U	0.03 J
	mg/Kg	NS	30.8	27.4	37.2	31.5	28.6	30.8
	mg/Kg	NS	1720	1750	1540	1350	1220	960
	mg/Kg	NS	0.21 UJ	0.25 UJ	0.26 UJ	0.17 UJ	0.18 UJ	0.23 UJ
	mg/Kg	NS	1.5 UJ	1.2 UJ	0.88 U	1.5 U	0.87 U	0.77 U
	mg/Kg	NS	177 J	239 J	70.8 J	80.2 J	65.6 J	75.9 J
	mg/Kg	NS	0.23 U	0.27 U	0.28 UJ	0.16 UJ	0.2 UJ	0.25 UJ
	mg/Kg	NS	23.9	21.8	30.7	21.1	26.1	18.6
	mg/Kg	NS	63	76.7	69.7	69	64.2	85.1
	mg/Kg	NS	0.67 U	0.65 U	0.58 U	0.54 U	0.57 U	0.47 U
gen	mg/Kg	NS	0.05	0.01 U	0.22	0.19	0.41	0.22
	%W/W	NS	85.8	87.2	82	85.2	83.6	91.9
drocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	SAMPLE DATE	01/25/94	01/25/94	11/18/93	01/26/94	01/25/94	01/25/94
	ES ID	MW17-1	MW17-1RE	MW17-2	MW17-3	MW17-4	MW17-4RE
	LAB ID	209339	209339	205059	209944	209340	209340
OUND	UNITS						
ICS							
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
e	ug/L	10 U	NS	10 U	10 U	10 U	NS
e	ug/L	10 U	NS	10 U	10 U	10 U	NS
e (total)	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
e	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
ane	ug/L	10 U	NS	10 U	10 U	10 U	NS
de	ug/L	10 U	NS	10 U	10 U	10 U	NS
hane	ug/L	10 U	NS	10 U	10 U	10 U	NS
ane	ug/L	10 U	NS	10 U	10 U	10 U	NS
ropene	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
hane	ug/L	10 U	NS	10 U	10 U	10 U	NS
ane	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
opropene	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
tanone	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
oethane	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	10 U	NS	10 U	10 U	10 U	NS
	ug/L	NS	NS	NS	NS	NS	NS
	ug/L	1.1 U	NS	1.1 U	1.1 U	1.1 U	NS
	ug/L	1.1 U	NS	1.1 U	1.1 U	1.1 U	NS
	ug/L	0.11 U	NS	0.11 U	0.11 U	0.11 U	NS
	ug/L	0.11 U	NS	0.11 U	0.11 U	0.11 U	NS
	ug/L	2.5 U	NS	2.5 U	2.5 U	2.5 U	NS
	ug/L	0.11 U	NS	0.11 U	0.11 U	0.11 U	NS
	ug/L	1.1 U	NS	1.1 U	1.1 U	1.1 U	NS
	ug/L	0.53 U	NS	0.54 U	0.54 U	0.54 U	NS
	ug/L	110 U	NS	110 U	110 U	110 U	NS
	ug/L	110 U	NS	110 U	110 U	110 U	NS
3							
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.2 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
ene	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
e	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.08 J	0.13 U	0.13 U	0.13 UJ
ne	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
nitrotoluene	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
nitrotoluene	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ
	ug/L	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	SAMPLE DATE	01/25/94	01/25/94	11/18/93	01/26/94	01/25/94	01/25/94
	ES ID	MW17-1	MW17-1RE	MW17-2	MW17-3	MW17-4	MW17-4RE
	LAB ID	209339	209339	205059	209944	209340	209340
OUND	UNITS						
RGANICS							
	ug/L	11 U	NS	11 U	10 U	11 U	NS
ether	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
loropropane)	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
-propylamine	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
ol	ug/L	11 U	NS	11 U	10 U	11 U	NS
y) methane	ug/L	11 U	NS	11 U	10 U	11 U	NS
ol	ug/L	11 U	NS	11 U	10 U	11 U	NS
nzene	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
ne	ug/L	11 U	NS	11 U	10 U	11 U	NS
hylphenol	ug/L	11 U	NS	11 U	10 U	11 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
entadiene	ug/L	11 U	NS	11 U	10 U	11 U	NS
enol	ug/L	11 U	NS	11 U	10 U	11 U	NS
enol	ug/L	26 U	NS	27 U	26 U	26 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	26 U	NS	27 U	26 U	26 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	26 U	NS	27 U	26 U	26 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	26 U	NS	27 U	26 U	26 U	NS
	ug/L	26 U	NS	27 U	26 U	26 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
phenylether	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	26 U	NS	27 U	26 U	26 U	NS
ethylphenol	ug/L	26 U	NS	27 U	26 U	26 U	NS
lamine	ug/L	11 U	NS	11 U	10 U	11 U	NS
phenylether	ug/L	11 U	NS	11 U	10 U	11 U	NS
e	ug/L	11 U	NS	11 U	10 U	11 U	NS
l	ug/L	26 U	NS	27 U	26 U	26 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
ate	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
ate	ug/L	11 U	NS	11 U	10 U	11 U	NS
idine	ug/L	11 U	NS	11 U	10 U	11 U	NS
e	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
phthalate	ug/L	11 U	NS	11 U	10 U	11 U	NS
ate	ug/L	11 U	NS	11 U	10 U	11 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
ene	ug/L	11 U	NS	11 U	10 U	11 U	NS
	ug/L	11 U	NS	11 U	10 U	11 U	NS
pyrene	ug/L	11 U	NS	11 U	10 U	11 U	NS
cene	ug/L	11 U	NS	11 U	10 U	11 U	NS
ne	ug/L	11 U	NS	11 U	10 U	11 U	NS

SENECA ARMY DEPOT
SEAD-17 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17	SEAD-17
	SAMPLE DATE	01/25/94	01/25/94	11/18/93	01/26/94	01/25/94	01/25/94
	ES ID	MW17-1	MW17-1RE	MW17-2	MW17-3	MW17-4	MW17-4RE
	LAB ID	209339	209339	205059	209944	209340	209340
OUND	UNITS						
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
dane)	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
e	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.52 U	NS	0.53 U	0.52 U	0.53 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.1 U	NS	0.11 U	0.1 U	0.11 U	NS
	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
e	ug/L	0.052 U	NS	0.053 U	0.052 U	0.053 U	NS
	ug/L	5.2 U	NS	5.3 U	5.2 U	5.3 U	NS
	ug/L	1 U	NS	1.1 U	1 U	1.1 U	NS
	ug/L	2.1 U	NS	2.1 U	2.1 U	2.1 U	NS
	ug/L	1 U	NS	1.1 U	1 U	1.1 U	NS
	ug/L	1 U	NS	1.1 U	1 U	1.1 U	NS
	ug/L	1 U	NS	1.1 U	1 U	1.1 U	NS
	ug/L	1 U	NS	1.1 U	1 U	1.1 U	NS
	ug/L	1 U	NS	1.1 U	1 U	1.1 U	NS
	ug/L	10800	NS	7220	1070	774	NS
	ug/L	21.4 U	NS	52.4 U	21.6 UJ	21.6 U	NS
	ug/L	5.8 J	NS	3.2 J	1.4 U	0.87 J	NS
	ug/L	147 J	NS	77.9 J	24.4 J	33.4 J	NS
	ug/L	0.52 J	NS	0.4 J	0.4 U	0.4 U	NS
	ug/L	2.1 U	NS	3.3 U	2.1 U	2.1 U	NS
	ug/L	170000	NS	149000	110000	113000	NS
	ug/L	17.3	NS	12.9	2.6 U	2.6 U	NS
	ug/L	11.4 J	NS	7 J	4.4 U	4.4 U	NS
	ug/L	18 J	NS	11.7 J	3.1 U	3.1 U	NS
	ug/L	18300	NS	12200	1870	1100	NS
	ug/L	8.7	NS	32.3	0.52 J	1.9 J	NS
	ug/L	40200	NS	24400	17800	17800	NS
	ug/L	473	NS	459	164	550	NS
	ug/L	0.05 J	NS	0.07 UJ	0.04 U	0.07 J	NS
	ug/L	24.4 J	NS	15.4 J	4 U	4 U	NS
	ug/L	4740 J	NS	4280 J	3590 J	5820	NS
	ug/L	2 J	NS	0.79 U	0.69 U	0.7 U	NS
	ug/L	4.2 U	NS	6.6 U	4.2 U	4.2 U	NS
	ug/L	8270	NS	44300	46100	17200	NS
	ug/L	1.2 U	NS	1.8 U	1.2 U	1.2 U	NS
	ug/L	19.9 J	NS	12.6 J	3.7 U	3.7 U	NS
	ug/L	100	NS	33	16.4 J	13 J	NS
	ug/L	5 U	NS	5 U	5 U	5 U	NS
B							
ogen	mg/L	0.26	NS	0.13	0.09	0.05	NS
ydrocarbons	mg/L	NS	NS	NS	NS	NS	NS
	mg/L	NS	NS	NS	NS	NS	NS
	standard units	7.43	NS	7.46	7.59	7.53	NS
ity	umhos/cm	390	NS	675	420	370	NS
	NTU	427	NS	176	47	5.4	NS

SEAD-24

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93
	ES ID	SS24-1	SS24-1RE	SS24-2	SS24-3	SS24-4	SS24-5	SS24-6	SS24-7	SS24-8
	LAB ID	202078	202078	202079	202080	202081	202082	202083	202084	202085
OUND	UNITS									
ICS										
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
e	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	27	7 J	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
e	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
e	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
e (total)	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	5 J	13 U	11 U	12 U	13	5 J	1 J	3 J
e	ug/Kg	14 UJ	14 UJ	13 U	11 UJ	12 U	12 UJ	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
ane	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
de	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
hane	ug/Kg	14 UJ	14 UJ	13 U	11 UJ	12 U	12 UJ	13 U	12 U	14 U
ane	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
ropene	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
hane	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
ane	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
opropene	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 UJ	12 U	12 UJ	13 U	12 U	14 U
tanone	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
oethane	ug/Kg	14 UJ	14 UJ	13 U	11 UJ	12 U	12 UJ	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	14 UJ	14 UJ	13 U	11 U	12 U	12 U	13 U	12 U	14 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	61 U	NS	67 U	55 U	62 U	61 U	64 U	61 U	69 U
	ug/Kg	61 U	NS	67 U	55 U	62 U	61 U	64 U	61 U	69 U
	ug/Kg	6.1 U	NS	6.7 U	5.5 U	6.2 U	6.1 U	6.4 U	6.1 U	6.9 U
	ug/Kg	6.1 U	NS	6.7 U	5.5 U	6.2 U	6.1 U	6.4 U	6.1 U	6.9 U
	ug/Kg	150 U	NS	160 U	140 U	150 U	150 U	160 U	150 U	170 U
	ug/Kg	6.1 U	NS	6.7 U	5.5 U	6.2 U	6.1 U	6.4 U	6.1 U	6.9 U
	ug/Kg	61 U	NS	67 U	55 U	62 U	61 U	64 U	61 U	69 U
	ug/Kg	31 U	NS	34 U	28 U	31 U	31 U	32 U	31 U	35 U
	ug/Kg	6100 U	NS	6700 U	5500 U	6200 U	6100 U	6400 U	6100 U	6900 U
	ug/Kg	6600	NS	6700 U	5500 U	6200 U	6100 U	6400 U	6100 U	6900 U
S										
	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
ene	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
e	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	120 J
ne	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
itrotoluene	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	NS	130 U	130 U	130 U	130 U	130 U	130 U	130 U
	ug/Kg	130 U	NS	310	640	130 U	4400	240	130 U	130 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93
	ES ID	SS24-1	SS24-1RE	SS24-2	SS24-3	SS24-4	SS24-5	SS24-6	SS24-7	SS24-8
	LAB ID	202078	202078	202079	202080	202081	202082	202083	202084	202085
OUND	UNITS									
RGANICS										
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
) ether	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
loropropane)	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
-propylamine	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
nol	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
xy) methane	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
nol	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
nzene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
thylphenol	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
lene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
entadiene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
enol	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
enol	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
lene	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	54 J	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
e	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
l	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
e	ug/Kg	74 J	NS	440 U	250 J	420	12000	93 J	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
-phenylether	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
ethylphenol	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
ylamine	ug/Kg	30 J	NS	440 U	74 J	70 J	650 J	420 U	400 U	450 U
-phenylether	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ne	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
l	ug/Kg	970 U	NS	1100 U	880 U	980 U	3900 U	1000 U	980 U	1100 U
	ug/Kg	37 J	NS	440 U	360 U	400 U	1600 U	37 J	400 U	450 U
	ug/Kg	19 J	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
Iate	ug/Kg	400 U	NS	440 U	31 J	400 U	370 J	25 J	400 U	450 U
	ug/Kg	210 J	NS	440 U	20 J	400 U	1600 U	82 J	400 U	450 U
	ug/Kg	260 J	NS	440 U	18 J	400 U	1600 U	72 J	400 U	450 U
late	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
zidine	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ene	ug/Kg	280 J	NS	440 U	360 U	400 U	1600 U	38 J	400 U	450 U
	ug/Kg	320 J	NS	440 U	16 J	400 U	1600 U	51 J	400 U	450 U
phthalate	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
late	ug/Kg	400 U	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
nene	ug/Kg	350 J	NS	440 U	360 U	400 U	1600 U	42 J	400 U	450 U
nene	ug/Kg	340 J	NS	440 U	360 U	400 U	1600 U	40 J	400 U	450 U
	ug/Kg	420	NS	440 U	360 U	400 U	1600 U	34 J	400 U	450 U
pyrene	ug/Kg	220 J	NS	440 U	360 U	400 U	1600 U	22 J	400 U	450 U
acene	ug/Kg	28 J	NS	440 U	360 U	400 U	1600 U	420 U	400 U	450 U
ene	ug/Kg	170 J	NS	440 U	360 U	400 U	1600 U	24 J	400 U	450 U

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93
	ES ID	SS24-1	SS24-1RE	SS24-2	SS24-3	SS24-4	SS24-5	SS24-6	SS24-7	SS24-8
	LAB ID	202078	202078	202079	202080	202081	202082	202083	202084	202085
OUND	UNITS									
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
dane)	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	2.1 U	2.3 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	1.1 J	2.1 U	2.3 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	4 U	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	3.6 J	2 J	12	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	4 U	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	4 U	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	4 U	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	4 U	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	35	4.5 U
	ug/Kg	20 U	NS	23 U	19 U	21 U	20 UJ	21 U	21 U	23 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.1 U	4 U	4.5 U
	ug/Kg	4 U	NS	4.4 U	3.6 U	4.1 U	4 UJ	4.2 J	4 U	4.5 U
	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	4.7 J	2.3 U
e	ug/Kg	2 U	NS	2.3 U	1.9 U	2.1 U	2 UJ	2.1 U	6	2.3 U
	ug/Kg	200 U	NS	230 U	190 U	210 U	200 UJ	210 U	210 U	230 U
	ug/Kg	40 U	NS	44 U	36 U	41 U	40 UJ	41 U	40 U	45 U
	ug/Kg	81 U	NS	89 U	74 U	82 U	80 UJ	83 U	82 U	92 U
	ug/Kg	40 U	NS	44 U	36 U	41 U	40 UJ	41 U	40 U	45 U
	ug/Kg	40 U	NS	44 U	36 U	41 U	40 UJ	41 U	40 U	45 U
	ug/Kg	40 U	NS	44 U	36 U	41 U	40 UJ	41 U	40 U	45 U
	ug/Kg	40 U	NS	44 U	36 U	41 U	40 UJ	41 U	40 U	45 U
	ug/Kg	40 U	NS	44 U	36 U	41 U	40 UJ	41 U	40 U	45 U
	mg/Kg	9540	NS	16600	12000	18900	13200	13600	18700	14700
	mg/Kg	10.3 UJ	NS	11.6 UJ	11.4 UJ	11.1 UJ	12.1 UJ	10.4 UJ	8.7 UJ	12.3 UJ
	mg/Kg	51.1	NS	11.4	53.5	20.7	22.1	56.8	9.9	12.1
	mg/Kg	71.6	NS	149	57.6	105	121	81.9	118	105
	mg/Kg	0.43 J	NS	0.89 J	0.51 J	0.91 J	0.59 J	0.66 J	0.86	0.81 J
	mg/Kg	0.64 U	NS	0.72 U	0.71 U	0.69 U	0.75 U	0.65 U	0.55 U	0.77 U
	mg/Kg	79300	NS	3290	23600	2140	23000	19900	2100	3940
	mg/Kg	12.2	NS	24.5	22.2	23.9	21.9	20.4	25.2	23.3
	mg/Kg	4.7 J	NS	13.9	10.9	11.5	10.4 J	10.6	13	12.6
	mg/Kg	13.5 J	NS	20 J	26.2 J	26.1 J	35.2 J	22.2 J	23.9 J	22.5 J
	mg/Kg	14000	NS	30900	25500	29200	25000	24300	29100	29700
	mg/Kg	15.1	NS	46.6	59.4	51.3	422	40.7	15.4	24.4
	mg/Kg	43700	NS	4320	5980	4600	5470	4400	5190	4730
	mg/Kg	393	NS	1770	353	244	550	724	677	448
	mg/Kg	0.04 J	NS	0.05 J	0.04 J	0.15	0.04 U	0.03 U	0.05 J	0.04 J
	mg/Kg	13.8	NS	30	39.5	26.4	31.6	26.8	30.1	34.8
	mg/Kg	1140	NS	1340	1190	1710	1560	1360	2090	1590
	mg/Kg	0.2 UJ	NS	0.23 UJ	0.2 UJ	0.26 UJ	0.23 UJ	0.21 UJ	0.22 UJ	0.23 UJ
	mg/Kg	1.3 U	NS	1.5 U	1.5 U	1.4 U	1.5 U	1.3 U	1.1 U	1.6 U
	mg/Kg	146 J	NS	51.9 J	95.5 J	56 J	88.4 J	69.8 J	52.3 J	59.8 J
	mg/Kg	2.2 U	NS	0.25 U	0.22 U	0.29 U	0.25 U	0.23 U	0.24 U	0.25 U
	mg/Kg	17.7	NS	30.1	17.1	32.8	22.3	24.4	32.8	27.2
	mg/Kg	58.7	NS	129	100	85.1	566	97.2	83.6	88.5
	mg/Kg	0.08 U	NS	0.1 U	0.09 U	0.1 U	0.08 U	0.1 U	0.1 U	0.11 U
S										
ogen	mg/Kg	2.1	NS	0.56	0.22	0.16	0.6	0.11	0.26	0.16
	%W/W	81.6	NS	75.4	91.4	80.7	81.9	78.6	82.2	73.2
ydrocarbons	mg/Kg	99	NS	81	73	72	78	93	59	46
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-2	4-6	4-6
	SAMPLE DATE	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	11/30/93	11/30/93	11/30/93
	ES ID	SS24-13	SS24-13RE	SS24-10	SS24-11	SS24-12	SS24-12RE	SB24-1.1	SB24-1.3	SB24-1.3RE
	LAB ID	202092	202092	202089	202090	202091	202091	205918	205919	205919
OUND	UNITS	SS24-9DUP	SS24-9DUP							
CS										
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	20 U	26 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
e	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
e	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
e (total)	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	4 J	13 UJ	13 U	11 U	13 UJ	3 J	12 U	11 U	NS
e	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
ane	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
de	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
hane	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
ne	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
ropene	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
hane	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
ne	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
opropene	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
anone	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
oethane	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	7 J	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	13 UJ	13 UJ	13 U	11 U	13 UJ	13 U	12 U	11 U	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	61 U	NS	63 U	56 U	65 U	NS	62 U	56 U R	56 UJ
	ug/Kg	61 U	NS	63 U	56 U	65 U	NS	62 U	56 U R	56 UJ
	ug/Kg	6.1 U	NS	6.3 U	5.6 U	6.5 U	NS	6.2 U	5.6 U R	5.6 UJ
	ug/Kg	6.1 U	NS	6.3 U	5.6 U	6.5 U	NS	6.2 U	5.6 U R	5.6 UJ
	ug/Kg	150 U	NS	160 U	140 U	160 U	NS	150 U	140 U R	140 UJ
	ug/Kg	9.7	NS	6.3 U	5.6 U	6.5 U	NS	6.2 U	5.6 U R	5.6 UJ
	ug/Kg	61 U	NS	63 U	56 U	65 U	NS	62 U	56 U R	56 UJ
	ug/Kg	31 U	NS	32 U	28 U	33 U	NS	31 U	28 U R	28 UJ
	ug/Kg	6100 U	NS	6300 U	5600 U	6500 U	NS	6200 U	5600 U R	5600 UJ
	ug/Kg	6100 U	NS	6300 U	5600 U	6500 U	NS	6200 U	5600 U R	5600 UJ
s										
	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
ene	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
e	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
ne	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
itrotoluene	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
itrotoluene	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
	ug/Kg	130 U	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS
	ug/Kg	560	NS	130 U	130 U	130 U	NS	130 UJ	130 U	NS

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-2	4-6	4-6
	SAMPLE DATE	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	11/30/93	11/30/93	11/30/93
	ES ID	SS24-13	SS24-13RE	SS24-10	SS24-11	SS24-12	SS24-12RE	SB24-1.1	SB24-1.3	SB24-1.3RE
	LAB ID	202092	202092	202089	202090	202091	202091	205918	205919	205919
OUND	UNITS	SS24-9DUP	SS24-9DUP							
IGANICS										
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ether	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
oropropane)	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
-propylamine	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ol	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
y) methane	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ol	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
nzene	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
hylphenol	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ene	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ntadiene	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
nol	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
nol	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
ene	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	7600	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
phenyl ether	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
ethylphenol	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
lamine	ug/Kg	810 J	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
phenyl ether	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
e	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	3900 U	NS	1000 U	890 U	1000 U	NS	980 U	900 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
te	ug/Kg	1100 J	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	160 J	NS	420 U	370 U	29 J	NS	400 U	370 U	NS
	ug/Kg	150 J	NS	420 U	370 U	29 J	NS	400 U	370 U	NS
te	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ldine	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
e	ug/Kg	78 J	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	100 J	NS	420 U	370 U	20 J	NS	400 U	370 U	NS
hthalate	ug/Kg	620	NS	420 U	370 U	430 U	NS	1200	860	NS
te	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	83 J	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	74 J	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
yrene	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
cene	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS
ne	ug/Kg	1600 U	NS	420 U	370 U	430 U	NS	400 U	370 U	NS

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-2	4-6	4-6
	SAMPLE DATE	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	10/22/93	11/30/93	11/30/93	11/30/93
	ES ID	SS24-13	SS24-13RE	SS24-10	SS24-11	SS24-12	SS24-12RE	SB24-1.1	SB24-1.3	SB24-1.3RE
	LAB ID	202092	202092	202089	202090	202091	202091	205918	205919	205919
OUND	UNITS	SS24-9DUP	SS24-9DUP							
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
dane)	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	2.3 J	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	6.6 J	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	2.7 J	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	21 UJ	NS	21 U	19 U	22 U	NS	21 U	19 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	4 UJ	NS	4.1 U	3.6 U	4.3 U	NS	4 U	3.7 U	NS
	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
e	ug/Kg	2.1 UJ	NS	2.1 U	1.9 U	2.2 U	NS	2.1 U	1.9 U	NS
	ug/Kg	210 UJ	NS	210 U	190 U	220 U	NS	210 U	190 U	NS
	ug/Kg	40 UJ	NS	41 U	36 U	43 U	NS	40 U	37 U	NS
	ug/Kg	61 UJ	NS	84 U	74 U	87 U	NS	82 U	75 U	NS
	ug/Kg	40 UJ	NS	41 U	36 U	43 U	NS	40 U	37 U	NS
	ug/Kg	40 UJ	NS	41 U	36 U	43 U	NS	40 U	37 U	NS
	ug/Kg	40 UJ	NS	41 U	36 U	43 U	NS	40 U	37 U	NS
	ug/Kg	40 UJ	NS	41 U	36 U	43 U	NS	40 U	37 U	NS
	ug/Kg	40 UJ	NS	41 U	36 U	43 U	NS	40 U	37 U	NS
	mg/Kg	14300	NS	25500	12900	15900	NS	24000	11400	NS
	mg/Kg	11.4 UJ	NS	11.3 UJ	9.3 UJ	12.4 UJ	NS	9.5 UJ	8.1 UJ	NS
	mg/Kg	38.6	NS	8.7	6.4	8.1	NS	5.2	3.9	NS
	mg/Kg	96.6	NS	119	28.2 J	88.8	NS	97.3	58.9	NS
	mg/Kg	0.67 J	NS	1.2	0.57 J	0.81 J	NS	0.9 J	0.5 J	NS
	mg/Kg	0.71 U	NS	0.7 U	0.75 J	8.2	NS	0.59 U	0.51 U	NS
	mg/Kg	8670	NS	2770	13400	4660	NS	4950	58500	NS
	mg/Kg	23.8	NS	35.1	25.1	23.8	NS	32.2	17.6	NS
	mg/Kg	11	NS	17.8	14.8	11.5 J	NS	12.2	9.5	NS
	mg/Kg	34.5 J	NS	32.6 J	34.6 J	24.4 J	NS	28.9	26.4	NS
	mg/Kg	26300	NS	37500	30600	27500	NS	33200	22700	NS
	mg/Kg	112	NS	24.6	30.9	121	NS	13.5 J	13.1 J	NS
	mg/Kg	5390	NS	6660	6750	5000	NS	6990	11300	NS
	mg/Kg	519	NS	612	293	512	NS	438	397	NS
	mg/Kg	0.04 J	NS	0.05 J	0.04 U	0.06 J	NS	0.04 J	0.02 UJ	NS
	mg/Kg	35.4	NS	46.6	52.4	535	NS	43.4	30.8	NS
	mg/Kg	1410	NS	2510	1200	1650	NS	2120	1610	NS
	mg/Kg	0.25 UJ	NS	0.21 UJ	0.27 J	0.26 UJ	NS	0.19 UJ	0.21 UJ	NS
	mg/Kg	1.4 U	NS	1.4 U	1.2 U	1.6 U	NS	1.2 U	1 U	NS
	mg/Kg	74.3 J	NS	63 J	91.5 J	53.5 J	NS	86.5 J	116 J	NS
	mg/Kg	0.28 U	NS	0.23 U	0.23 U	0.28 U	NS	0.21 UJ	0.23 UJ	NS
	mg/Kg	24	NS	39.3	18.2	26.1	NS	33	17	NS
	mg/Kg	182	NS	108	236	1180	NS	99.9	114	NS
	mg/Kg	0.1 U	NS	0.1 U	0.09 U	0.1 U	NS	NA	NA	NS
S										
rogen	mg/Kg	0.37	NS	0.3	0.05	0.14	NS	0.01	0.02	NS
	%W/W	81.5	NS	78.1	90.5	76.7	NS	81	89.5	NS
ydrocarbons	mg/Kg	158	NS	47	38	87	NS	32	68	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-2	0-2	0-2	0-2	6-8	6-8	12-14	12-14	0-2
	SAMPLE DATE	11/30/93	11/30/93	12/01/93	12/01/93	12/01/93	12/01/93	12/01/93	12/01/93	12/02/93
	ES ID	SB24-1.7	SB24-1.7RE	SB24-2.1	SB24-2.1RE	SB24-2.3	SB24-2.3RE	SB24-2.4	SB24-2.4RE	SB24-3.1
	LAB ID	205921	205921	205922	205922	205923	205923	205952	205952	206044
OUND	UNITS	SB24-1.1DUP	SB24-1.1DUP							
CS										
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	12	12 U
	ug/Kg	11 U	NS	12 U	NS	14 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
e	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
e	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
e (total)	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	6 J	2 J	12 U
e	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
ane	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
de	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
hane	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
ne	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
ropene	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
hane	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
ne	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
opropene	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
anone	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
oethane	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	11 U	NS	12 U	NS	11 U	NS	11 UJ	11 U	12 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	59 U	NS	61 U	NS	56 U	NS	54 U	NS	63 U
	ug/Kg	59 U	NS	61 U	NS	56 U	NS	54 U	NS	63 U
	ug/Kg	5.9 U	NS	6.1 U	NS	5.6 U	NS	5.4 U	NS	6.3 U
	ug/Kg	5.9 U	NS	6.1 U	NS	5.6 U	NS	5.4 U	NS	6.3 U
	ug/Kg	150 U	NS	150 U	NS	140 U	NS	130 U	NS	160 U
	ug/Kg	5.9 U	NS	6.1 U	NS	5.6 U	NS	5.4 U	NS	6.3 U
	ug/Kg	59 U	NS	61 U	NS	56 U	NS	54 U	NS	63 U
	ug/Kg	30 U	NS	31 U	NS	28 U	NS	27 U	NS	32 U
	ug/Kg	5900 U	NS	6100 U	NS	5600 U	NS	5400 U	NS	6300 U
	ug/Kg	5900 U	NS	6100 U	NS	5600 U	NS	5400 U	NS	6300 U
s										
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
one	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	78 J	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	1100 U
ne	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ltrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ltrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-2	0-2	0-2	0-2	6-8	6-8	12-14	12-14	0-2
	SAMPLE DATE	11/30/93	11/30/93	12/01/93	12/01/93	12/01/93	12/01/93	12/01/93	12/01/93	12/02/93
	ES ID	SB24-1.7	SB24-1.7RE	SB24-2.1	SB24-2.1RE	SB24-2.3	SB24-2.3RE	SB24-2.4	SB24-2.4RE	SB24-3.1
	LAB ID	205921	205921	205922	205922	205923	205923	205952	205952	206044
OUND	UNITS	SB24-1.1DUP	SB24-1.1DUP							
GANICS										
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ether	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
loropropane)	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
-propylamine	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ol	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
y) methane	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ol	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
zene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
hylphenol	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ntadiene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
enol	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
enol	ug/Kg	930 U R	940 UJ	990 U R	960 UJ	880 U R	690 UJ	860 U	NS	1000 U
ene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	930 U R	940 UJ	990 U R	960 UJ	880 U R	890 UJ	860 U	NS	1000 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	930 U R	940 UJ	990 U R	980 UJ	880 U R	690 UJ	860 U	NS	1000 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	930 U R	940 UJ	990 U R	980 UJ	880 U R	890 UJ	860 U	NS	1000 U
	ug/Kg	930 U R	940 UJ	990 U R	960 UJ	880 U R	890 UJ	860 U	NS	1000 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	960 J	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
phenylether	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	330 U R	390 UJ	410 U R	410 UJ	380 U R	370 UJ	350 U	NS	420 U
	ug/Kg	930 U R	940 UJ	990 U R	980 UJ	880 U R	890 UJ	860 U	NS	1000 U
ethylphenol	ug/Kg	930 U R	940 UJ	990 U R	980 UJ	880 U R	890 UJ	860 U	NS	1000 U
lamine	ug/Kg	380 U R	390 UJ	410 U R	280 J	360 U R	370 UJ	350 U	NS	420 U
phenylether	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
e	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
l	ug/Kg	930 U R	940 UJ	990 U R	980 UJ	880 U R	890 UJ	860 U	NS	1000 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	33 J
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ate	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	62 J
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	58 J
te	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
idine	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	37 J
hthalate	ug/Kg	44 J R	1300 J	410 U R	30 J	360 U R	27 J	41 J	NS	420 U
ate	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	27 J
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	27 J
	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	24 J
yrene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
cene	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U
ne	ug/Kg	380 U R	390 UJ	410 U R	410 UJ	360 U R	370 UJ	350 U	NS	420 U

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	0-2	0-2	0-2	0-2	6-8	6-8	12-14	12-14	0-2
	SAMPLE DATE	11/30/93	11/30/93	12/01/93	12/01/93	12/01/93	12/01/93	12/01/93	12/01/93	12/02/93
	ES ID	SB24-1.7	SB24-1.7RE	SB24-2.1	SB24-2.1RE	SB24-2.3	SB24-2.3RE	SB24-2.4	SB24-2.4RE	SB24-3.1
	LAB ID	205921	205921	205922	205922	205923	205923	205952	205952	206044
OUND	UNITS	SB24-1.1DUP	SB24-1.1DUP							
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
dane)	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
e	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	20 U	20 UJ	21 U	21 UJ	19 U	19 UJ	18 U	NS	22 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	3.8 U	3.9 UJ	4 U	4.1 UJ	3.7 U	3.7 UJ	3.5 U	NS	4.2 U
	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
e	ug/Kg	2 U	2 UJ	2.1 U	2.1 UJ	1.9 U	1.9 UJ	1.8 U	NS	2.2 U
	ug/Kg	200 U	200 UJ	210 U	210 UJ	190 U	190 UJ	180 U	NS	220 U
	ug/Kg	38 U	39 UJ	40 U	41 UJ	37 U	37 UJ	35 U	NS	42 U
	ug/Kg	77 U	79 UJ	82 U	83 UJ	74 U	74 UJ	72 U	NS	85 U
	ug/Kg	38 U	39 UJ	40 U	41 UJ	37 U	37 UJ	35 U	NS	42 U
	ug/Kg	38 U	39 UJ	40 U	41 UJ	37 U	37 UJ	35 U	NS	42 U
	ug/Kg	38 U	39 UJ	40 U	41 UJ	37 U	37 UJ	35 U	NS	42 U
	ug/Kg	38 U	39 UJ	40 U	41 UJ	37 U	37 UJ	35 U	NS	42 U
	ug/Kg	38 U	39 UJ	40 U	41 UJ	37 U	37 UJ	35 U	NS	42 U
	mg/Kg	17600	NS	16500	NS	9620	NS	14200	NS	19300
	mg/Kg	7.5 UJ	NS	8.5 UJ	NS	6.9 UJ	NS	6 UJ	NS	11.5 UJ
	mg/Kg	5	NS	3.6	NS	4.4	NS	4.9	NS	4.5
	mg/Kg	67.3	NS	111	NS	79.3	NS	54.3	NS	132
	mg/Kg	0.78	NS	0.97	NS	0.45 J	NS	0.61	NS	0.97 J
	mg/Kg	0.47 U	NS	0.53 U	NS	0.43 U	NS	0.38 U	NS	0.72 U
	mg/Kg	13300	NS	3070	NS	83300	NS	56900	NS	3430
	mg/Kg	27.5	NS	22.5	NS	15.5	NS	23	NS	24.9
	mg/Kg	13.3	NS	10.3	NS	9.6	NS	10.7	NS	11.6
	mg/Kg	26.1	NS	24.5	NS	24.7	NS	17.1	NS	19
	mg/Kg	32100	NS	27400	NS	19800	NS	26600	NS	25700
	mg/Kg	14.9 J	NS	80.3	NS	11.9 J	NS	4.7 J	NS	81.7 J
	mg/Kg	8050	NS	4830	NS	16400	NS	11500	NS	4280
	mg/Kg	509	NS	413	NS	366	NS	434	NS	837
	mg/Kg	0.03 J	NS	0.03 J	NS	0.03 UJ	NS	0.03 J	NS	0.09 J R
	mg/Kg	42.2	NS	28.9	NS	26.4	NS	34	NS	29.6
	mg/Kg	1230	NS	1170	NS	1350	NS	1760	NS	1750
	mg/Kg	0.23 UJ	NS	0.22 UJ	NS	2 UJ	NS	0.28 J	NS	0.3 J
	mg/Kg	0.95 U	NS	1.1 U	NS	0.88 U	NS	0.77 U	NS	1.5 U
	mg/Kg	74.9 J	NS	51.3 J	NS	135 J	NS	161 J	NS	84.6 J
	mg/Kg	0.25 UJ	NS	0.24 UJ	NS	0.22 UJ	NS	0.25 U	NS	0.22 U
	mg/Kg	26	NS	28	NS	15.2	NS	20.1	NS	31.1
	mg/Kg	86	NS	223	NS	62.6	NS	48.9	NS	112
	mg/Kg	NA	NS	NA	NS	NA	NS	0.53 U	NS	0.59 U
S										
ogen	mg/Kg	0.01	NS	0.01	NS	0.12	NS	0.14	NS	0.47
	%W/W	85.2	NS	81.5	NS	90.1	NS	92.9	NS	79.2
ydrocarbons	mg/Kg	74	NS	33	NS	45	NS	106	NS	119
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	8-10	0-2	6-8	12-14	12-14	0-2	4-6	8-10
	SAMPLE DATE	12/02/93	12/01/93	12/01/93	12/02/93	12/02/93	12/02/93	12/02/93	12/02/93
	ES ID	SB24-3.5	SB24-4.1	SB24-4.4	SB24-4.7	SB24-4.7RE	SB24-5.1	SB24-5.3	SB24-5.5
	LAB ID	206046	205953	205954	205955	205955	206047	206048	206049
OUND	UNITS								
ICS									
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	9 J	12 U	11 U	2 J
	ug/Kg	11 U	12 U	12 U	20 UJ	6 J	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
e	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
e	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
e (total)	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	5 J	12 U	11 UJ	3 J	12 U	2 J	11 U
e	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
ane	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
de	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
hane	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
ene	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
ropene	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	1 J
hane	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
ane	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	1 J
opropene	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
tanone	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
oethane	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	2 J
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	1 J
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	11 U	12 U	12 U	11 UJ	11 UJ	12 U	11 U	11 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	54 U	59 U	56 U	54 U	NS	63 U	54 U	57 U
	ug/Kg	54 U	59 U	56 U	54 U	NS	63 U	54 U	57 U
	ug/Kg	5.4 U	5.9 U	5.6 U	5.4 U	NS	6.3 U	5.4 U	5.7 U
	ug/Kg	5.4 U	5.9 U	5.6 U	5.4 U	NS	6.3 U	5.4 U	5.7 U
	ug/Kg	130 U	150 U	140 U	130 U	NS	150 U	130 U	140 U
	ug/Kg	5.4 U	5.9 U	5.6 U	5.4 U	NS	6.3 U	5.4 U	5.7 U
	ug/Kg	54 U	59 U	56 U	54 U	NS	63 U	54 U	57 U
	ug/Kg	27 U	30 U	28 U	27 U	NS	32 U	27 U	29 U
	ug/Kg	5400 U	5900 U	5600 U	5400 U	NS	6300 U	5400 U	5700 U
	ug/Kg	5400 U	5900 U	5600 U	5400 U	NS	6300 U	5400 U	5400 U
S									
	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
ene	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
e	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
	ug/Kg	1600 U	110 J	130 U	130 U	NS	730 U	960 U	1700 U
ns	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
nitrotoluene	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
nitrotoluene	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U
	ug/Kg	130 U	130 U	130 U	130 U	NS	130 U	130 U	130 U

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	8-10	0-2	6-8	12-14	12-14	0-2	4-6	8-10
	SAMPLE DATE	12/02/93	12/01/93	12/01/93	12/02/93	12/02/93	12/02/93	12/02/93	12/02/93
	ES ID	SB24-3.5	SB24-4.1	SB24-4.4	SB24-4.7	SB24-4.7RE	SB24-5.1	SB24-5.3	SB24-5.5
	LAB ID	206046	205953	205954	205955	205955	206047	206048	206049
OUND	UNITS								
RGANICS									
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
) ether	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
loropropane)	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
-propylamine	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ol	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
xy) methane	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ol	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
nzene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
thylphenol	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
lene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
entadiene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
enol	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
enol	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
lene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
e	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
e	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
phenylether	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
ethylphenol	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
ylamine	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
phenylether	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ne	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
l	ug/Kg	860 U	960 U	910 U	860 U	NS	1000 U	860 U	910 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ate	ug/Kg	22 J	400 U	380 U	360 U	NS	67 J	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ate	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
zidine	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ne	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
phthalate	ug/Kg	56 J	400 U	86 J	69 J	NS	53 J	350 U	120 J
ate	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
pyrene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
cene	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U
ne	ug/Kg	350 U	400 U	380 U	360 U	NS	410 U	350 U	380 U

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	DEPTH (FEET)	8-10	0-2	6-8	12-14	12-14	0-2	4-6	8-10
	SAMPLE DATE	12/02/93	12/01/93	12/01/93	12/02/93	12/02/93	12/02/93	12/02/93	12/02/93
	ES ID	SB24-3.5	SB24-4.1	SB24-4.4	SB24-4.7	SB24-4.7RE	SB24-5.1	SB24-5.3	SB24-5.5
	LAB ID	206046	205953	205954	205955	205955	206047	206048	206049
POUND	UNITS								
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
ndane)	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
le	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	18 U	20 U	19 U	18 U	NS	21 U	18 U	19 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	3.5 U	4 U	3.7 U	3.6 U	NS	4.1 U	3.5 U	3.7 U
	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
ne	ug/Kg	1.8 U	2 U	1.9 U	1.8 U	NS	2.1 U	1.8 U	1.9 U
	ug/Kg	180 U	200 U	190 U	180 U	NS	210 U	180 U	190 U
	ug/Kg	35 U	40 U	37 U	36 U	NS	41 U	35 U	37 U
	ug/Kg	72 U	81 U	76 U	72 U	NS	64 U	72 U	76 U
	ug/Kg	35 U	40 U	37 U	36 U	NS	41 U	35 U	37 U
	ug/Kg	35 U	40 U	37 U	36 U	NS	41 U	35 U	37 U
	ug/Kg	35 U	40 U	37 U	36 U	NS	41 U	35 U	37 U
	ug/Kg	35 U	40 U	37 U	36 U	NS	41 U	35 U	37 U
	ug/Kg	35 U	40 U	37 U	36 U	NS	41 U	35 U	37 U
	mg/Kg	5820	20700	7470	11300	NS	16200	10100	13700
	mg/Kg	10 UJ	7.2 UJ	8.3 UJ	6.5 UJ	NS	12.5 UJ	5.8 UJ	11.3 UJ
	mg/Kg	2.5	4.2	2.5	2.7	NS	4.2	3.3	5
	mg/Kg	40.5	115	73.8	47	NS	117	58.3	67.2
	mg/Kg	0.34 J	1.1	0.37 J	0.53 J	NS	0.98 J	0.48 J	0.62 J
	mg/Kg	0.63 U	0.45 U	0.52 U	0.41 U	NS	0.78 U	0.36 U	0.7 U
	mg/Kg	106000	3660	81400	30500	NS	4540	74200	49000
	mg/Kg	10.8	31	15.6	18.8	NS	24.5	16.9	23.1
	mg/Kg	6.7 J	20.5	5.7 J	10.3	NS	16	8.2	12
	mg/Kg	14.6	25.3	18.1	12.5	NS	28.4	20.9	22.2
	mg/Kg	14100	37700	14800	22600	NS	33600	21300	26700
	mg/Kg	33.8 J	31.4 J	7.6 J	3.6 J	NS	45.5 J	8.7 J	7.9 J
	mg/Kg	36700	6270	16800	7670	NS	5150	12100	11400
	mg/Kg	349	802	409	400	NS	1080	400	450
	mg/Kg	0.03 J	0.07 J R	0.06 J R	0.05 J R	NS	0.07 J R	0.06 J R	0.04 J R
	mg/Kg	23.9	43.6	19.3	28.6	NS	37.3	26.4	35.2
	mg/Kg	1040	1520	1390	1140	NS	1170 J	993	1660
	mg/Kg	0.15 UJ	0.24 UJ	0.15 UJ	0.12 UJ	NS	0.15 UJ	0.23 UJ	0.22 UJ
	mg/Kg	1.3 U	0.91 U	1 U	0.83 U	NS	1.6 U	0.73 U	1.4 U
	mg/Kg	133 J	58.3 J	138 J	131 J	NS	50.9 J	153 J	139 J
	mg/Kg	0.16 U	0.27 U	0.85 U	0.14 J	NS	0.16 U	0.25 U	0.24 U
	mg/Kg	10.7	32.6	13.4	14.6	NS	29.9	14.4	19.5
	mg/Kg	39.6	209	58.7	30	NS	85.7	62.8	63.2
	mg/Kg	0.51 U	0.52 U	0.52 U	0.48 U	NS	0.6 U	0.51 U	0.57 U
ES									
rogen	mg/Kg	0.2	0.29	0.07	0.13	NS	0.27	0.15	0.33
	%W/W	93.2	83.5	88.2	92.1	NS	80.5	92.7	87.7
lydrocarbons	mg/Kg	81	89	116	99	NS	89	52	94
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	SAMPLE DATE	01/23/94	01/23/94	11/16/93	11/15/93
	ES ID	MW24-1	MW24-1RE	MW24-2	MW24-3
	LAB ID	209254	209254	204657	204632
OUND	UNITS				
CS					
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	16 U	10 U
	ug/L	10 U	NS	10 U	10 U
e	ug/L	10 U	NS	10 U	10 U
e	ug/L	10 U	NS	10 U	10 U
e (total)	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
e	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
ane	ug/L	10 U	NS	10 U	10 U
de	ug/L	10 U	NS	10 U	10 U
nane	ug/L	10 U	NS	10 U	10 U
ne	ug/L	10 U	NS	10 U	10 U
ropene	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
nane	ug/L	10 U	NS	10 U	10 U
ane	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
opropene	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
anone	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
oethane	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	10 U	NS	10 U	10 U
	ug/L	NS	NS	NS	NS
	ug/L	1.2 U	NS	1.2 U	1.2 U
	ug/L	1.2 U	NS	1.2 U	1.2 U
	ug/L	0.12 U	NS	0.12 U	0.12 U
	ug/L	0.12 U	NS	0.12 U	0.12 U
	ug/L	2.7 U	NS	2.6 U	2.7 U
	ug/L	0.12 U	NS	0.12 U	0.12 U
	ug/L	1.2 U	NS	1.2 U	1.2 U
	ug/L	0.58 U	NS	0.59 U	0.59 U
	ug/L	120 U	NS	120 U	120 U
	ug/L	120 U	NS	120 U	120 U
S					
	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
ene	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
e	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
ne	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
itrotoluene	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
itrotoluene	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U
	ug/L	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	SAMPLE DATE	01/23/94	01/23/94	11/16/93	11/15/93
	ES ID	MW24-1	MW24-1RE	MW24-2	MW24-3
	LAB ID	209254	209254	204857	204832
OUND	UNITS				
RGANICS					
	ug/L	11 U	NS	10 U	11 U
ether	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
loropropane)	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
-propylamine	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
ol	ug/L	11 U	NS	10 U	11 U
y) methane	ug/L	11 U	NS	10 U	11 U
ol	ug/L	11 U	NS	10 U	11 U
nzene	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	11 U
thylphenol	ug/L	11 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	11 U
entadiene	ug/L	11 U	NS	10 U	11 U
enol	ug/L	11 U	NS	10 U	11 U
enol	ug/L	29 U	NS	26 U	27 U
ene	ug/L	11 U	NS	10 U	11 U
	ug/L	29 U	NS	26 U	27 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	29 U	NS	26 U	27 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	29 U	NS	26 U	27 U
	ug/L	29 U	NS	26 U	27 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
phenylether	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	29 U	NS	26 U	27 U
ethylphenol	ug/L	29 U	NS	26 U	27 U
lamine	ug/L	11 U	NS	10 U	11 U
phenylether	ug/L	11 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	11 U
l	ug/L	29 U	NS	26 U	27 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
ate	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
ate	ug/L	11 U	NS	10 U	11 U
zidine	ug/L	11 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
ohthalate	ug/L	11 U	NS	10 U	11 U
ate	ug/L	11 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	11 U
ene	ug/L	11 U	NS	10 U	11 U
	ug/L	11 U	NS	10 U	11 U
pyrene	ug/L	11 U	NS	10 U	11 U
cene	ug/L	11 U	NS	10 U	11 U
ne	ug/L	11 U	NS	10 U	11 U

SENECA ARMY DEPOT
SEAD-24 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-24	SEAD-24	SEAD-24	SEAD-24
	SAMPLE DATE	01/23/94	01/23/94	11/16/93	11/15/93
	ES ID	MW24-1	MW24-1RE	MW24-2	MW24-3
	LAB ID	209254	209254	204657	204632
OUND	UNITS				
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
dane)	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.55 U	NS	0.53 U	0.55 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.11 U	NS	0.11 U	0.11 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	0.055 U	NS	0.053 U	0.055 UJ
	ug/L	5.5 U	NS	5.3 U	5.5 UJ
	ug/L	1.1 U	NS	1.1 U	1.1 UJ
	ug/L	2.2 U	NS	2.1 U	2.2 UJ
	ug/L	1.1 U	NS	1.1 U	1.1 UJ
	ug/L	1.1 U	NS	1.1 U	1.1 UJ
	ug/L	1.1 U	NS	1.1 U	1.1 UJ
	ug/L	1.1 U	NS	1.1 U	1.1 UJ
	ug/L	1.1 U	NS	1.1 U	1.1 UJ
	ug/L	19100	NS	9650	18700
	ug/L	21.5 U	NS	52.4 U	52.3 U
	ug/L	10	NS	5.5 J	6.7 J
	ug/L	156 J	NS	82.1 J	177 J
	ug/L	0.89 J	NS	0.52 J	0.86 J
	ug/L	2.1 U	NS	3.3 U	3.3 U
	ug/L	160000	NS	176000	133000
	ug/L	29.8	NS	18.1	32.6
	ug/L	18.7 J	NS	14.5 J	11.8 J
	ug/L	32.5	NS	8.2 J	16.4 J
	ug/L	32000	NS	19800	29800
	ug/L	7	NS	3.1	3.9
	ug/L	39800	NS	47700	43300
	ug/L	712	NS	767	528
	ug/L	0.06 J	NS	0.07 UJ	0.07 UJ
	ug/L	41.4	NS	27.8 J	37.4 J
	ug/L	7220	NS	6610	7550
	ug/L	2.5 J	NS	1 J	0.8 U
	ug/L	4.2 U	NS	6.7 U	6.6 U
	ug/L	5950	NS	6950	9510
	ug/L	1.2 U	NS	1.8 U	1.8 U
	ug/L	30.9 J	NS	16.3 J	30.6 J
	ug/L	107	NS	31.8	53
	ug/L	5 U	NS	5 U	5 U
S					
ogen	mg/L	0.11	NS	0.07	0.01
drocarbons	mg/L	0.4 U	NS	0.4 U	0.43 U
	mg/L	NS	NS	NS	NS
	standard units	7.26	NS	7.45	6.95
ity	umhos/cm	435	NS	700	560
	NTU	150	NS	NA(Cloudy)	NA(Cloudy)

SEAD-25

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	DEPTH (FEET)	0-2	4-6	6-8	0-2	0-2	2-4	4-6	0-2	2-4
	SAMPLE DATE	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93
	ES ID	SB25-1.1	SB25-1.3	SB25-1.4	SB25-2.1	SB25-2.4	SB25-2.2	SB25-2.3	SB25-3.1	SB25-3.2
	LAB ID	206050	206051	206052	206053	206057	206055	206056	206058	206059
OUND	UNITS					SB25-2.1DUP				
CS										
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	39	24	52 U	40
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
e (total)	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	2 J	11 U	19 U	11 U	52 U	12 U
e	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	10 J	11 U	52 U	8 J
ane	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	170	12 U
de	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
hane	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
ne	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
ropene	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	38 J	12 U
hane	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
ane	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	100	12 U
opropene	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
tanone	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
oethane	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	840	4 J
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	6 J	370	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	37	4100 J	49
	ug/Kg	11 U	11 U	11 U	11 U	11 U	19 U	11 U	52 U	12 U
	ug/Kg	54 U	55 U	55 U	54 U	55 U	54 U	55 U	53 U	60 U
	ug/Kg	54 U	55 U	55 U	54 U	55 U	54 U	55 U	53 U	60 U
	ug/Kg	5.4 U	5.5 U	5.5 U	5.4 U	5.5 U	5.4 U	5.5 U	5.3 U	6 U
	ug/Kg	5.4 U	5.5 U	5.5 U	5.4 U	5.5 U	5.4 U	5.5 U	5.3 U	6 U
	ug/Kg	130 U	140 U	130 U	130 U	140 U	130 U	140 U	130 U	150 U
	ug/Kg	5.4 U	5.5 U	5.5 U	5.4 U	5.5 U	5.4 U	5.5 U	5.3 U	6 U
	ug/Kg	54 U	55 U	55 U	54 U	55 U	54 U	55 U	53 U	60 U
	ug/Kg	27 U	28 U	28 U	27 U	28 U	27 U	28 U	27 U	30 U
	ug/Kg	5400 U	5500 U	5500 U	5400 U	5500 U	5400 U	5500 U	5300 U	6000 U
	ug/Kg	5700 U	5400 U	5500 U	5400	5500 U	5400 U	5500 U	5300 U	6000 U
S										
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
ane	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
e	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
ne	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	DEPTH (FEET)	0-2	4-6	6-8	0-2	0-2	2-4	4-6	0-2	2-4
	SAMPLE DATE	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93
	ES ID	SB25-1.1	SB25-1.3	SB25-1.4	SB25-2.1	SB25-2.4	SB25-2.2	SB25-2.3	SB25-3.1	SB25-3.2
	LAB ID	206050	206051	206052	206053	206057	206055	206056	206058	206059
OUND	UNITS					SB25-2.1DUP				
RGANICS										
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
) ether	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
loropropane)	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
-propylamine	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ol	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
y) methane	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ol	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
nzene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	390 J	250 J	1100 J	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ne	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
hylphenol	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ene	ug/Kg	55 J	360 U	500 U	40 J	51 J	5100	2800 J	4700 J	400 U
entadiene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
enol	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
enol	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
ene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
e	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	300 J	220 J	6900 U	400 U
	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
e	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
phenyl ether	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	620 J	910 J	400 U
	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
ethylphenol	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
l amine	ug/Kg	720 U	360 U	500 U	350 U	500 U	960 J	870 J	1500 J	400 U
phenyl ether	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ne	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
l	ug/Kg	1700 U	870 U	1200 U	860 U	1200 U	8700 U	8700 U	17000 U	960 U
	ug/Kg	720 U	360 U	500 U	350 U	65 J	1400 J	1200 J	2500 J	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ate	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	380 J	400 U
ate	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
zidine	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ne	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ohthalate	ug/Kg	160 J	63 J	90 J	25 J	49 J	3600 U	3600 U	480 J	30 J
ate	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
pyrene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
cene	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U
ne	ug/Kg	720 U	360 U	500 U	350 U	500 U	3600 U	3600 U	6900 U	400 U

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	DEPTH (FEET)	0-2	4-6	6-8	0-2	0-2	2-4	4-6	0-2	2-4
	SAMPLE DATE	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93
	ES ID	SB25-1.1	SB25-1.3	SB25-1.4	SB25-2.1	SB25-2.4	SB25-2.2	SB25-2.3	SB25-3.1	SB25-3.2
	LAB ID	206050	206051	206052	206053	206057	206055	206056	206058	206059
OUND	UNITS					SB25-2.1DUP				
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
dane)	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
e	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2.8 J	2 U
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2.5 J	2 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.5 U	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	4.3	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.4 J	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.5 U	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.5 U	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.5 U	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.4 J	4 U
	ug/Kg	18 UJ	18 U	18 U	18 U	18 U	18 U	19 U	18 U	20 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.5 U	4 U
	ug/Kg	3.6 UJ	3.6 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	3.7 J	4 U
	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
ne	ug/Kg	1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2 U
	ug/Kg	180 UJ	180 U	180 U	180 U	180 U	180 U	190 U	180 U	200 U
	ug/Kg	36 UJ	36 U	36 U	35 U	36 U	36 U	36 U	35 U	40 U
	ug/Kg	73 UJ	72 U	73 U	72 U	73 U	73 U	74 U	70 U	80 U
	ug/Kg	36 UJ	36 U	36 U	35 U	36 U	36 U	36 U	35 U	40 U
	ug/Kg	36 UJ	36 U	36 U	35 U	36 U	36 U	36 U	35 U	40 U
	ug/Kg	36 UJ	36 U	36 U	35 U	36 U	36 U	36 U	35 U	40 U
	ug/Kg	36 UJ	36 U	36 U	35 U	36 U	36 U	36 U	35 U	40 U
	ug/Kg	36 UJ	36 U	36 U	35 U	36 U	36 U	36 U	35 U	40 U
	mg/Kg	9720	10800	8730	9370	7330	9140	8640	6160	18600
	mg/Kg	9.9 UJ	9.1 UJ	7.1 UJ	7.6 UJ	8.7 UJ	7.6 UJ	6.6 UJ	9.2 UJ	12 UJ
	mg/Kg	4.7	3.8	4.7	4.1	5.4	3.5	3.4	2.4	5
	mg/Kg	25 J	62.4	55.5	36.7	32.7 J	57.1	60.3	82.3	111
	mg/Kg	0.45 J	0.52 J	0.38 J	0.49 J	0.48 J	0.43 J	0.36 J	0.42 J	0.65 J
	mg/Kg	0.62 U	0.57 U	0.44 U	0.48 U	0.64 J	0.47 U	0.73	0.58 U	0.75 U
	mg/Kg	53800	67300	59100	112000	192000	70600	61800	195000	2760
	mg/Kg	16	17.6	14.6	15.4	11.5	14.5	15.8	11.9	25.2
	mg/Kg	9.7	9.8	8.7	10.5	9.8	8.2	7.2	6.3 J	15.8
	mg/Kg	17	15.6	15.6	14.7	14.4	21.6	23.3	16.3	7.6
	mg/Kg	20400	22100	21100	19100	14400	18700	16800	11900	54600
	mg/Kg	21.7 J	7.1 J	11.5 J	26.8 J	42.6 J	13.7 J	14.2 J	291 J	15.8 J
	mg/Kg	6350	19600	12300	8590	12300	12800	21000	11300	3980
	mg/Kg	394	469	435	450	444	464	407	384	622
	mg/Kg	0.06 J R	0.05 J R	0.07 J R	0.06 J R	0.03 J	0.03 J	0.05 J R	0.03 J	0.08 J R
	mg/Kg	27.1	27.1	23.6	46.4	23	35.3	23.7	17.5	21.7
	mg/Kg	844 J	1230	877	916	1370	979	1230	1420	1730
	mg/Kg	0.24 UJ	0.23 UJ	0.19 UJ	0.17 UJ	0.21 UJ	0.12 UJ	0.18 UJ	0.15 UJ	0.2 UJ
	mg/Kg	1.3 U	1.2 U	0.9 U	0.97 U	1.1 U	0.96 U	0.84 U	1.2 U	1.5 U
	mg/Kg	108 J	156 J	126 J	126 J	161 J	128 J	157 J	180 J	55 J
	mg/Kg	0.26 U	0.25 U	0.2 U	0.18 U	1.2 U	0.13 U	0.2 U	0.81 U	0.21 U
	mg/Kg	12.2	16	13.2	12.4	11.5	14.8	14	10.1	39.8
	mg/Kg	44.4	47.7	57.9	35.4	97.9	56.7	94.8	74.7	43.7
	mg/Kg	0.49 U	0.52 U	0.47 U	0.51 U	0.5 U	0.48 U	0.49 U	0.48 U	0.68 U
S										
rogen	mg/Kg	0.2	0.01	0.05	0.02	0.09	0.01	0.02	0.04	0.01 U
	%W/W	91.6	91.8	92.4	92.9	92.5	92.2	91	94.7	83.3
ydrocarbons	mg/Kg	1240	68	98	1600	1270	3000	1920	14800	112
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	DEPTH (FEET)	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4
	SAMPLE DATE	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93
	ES ID	SB25-4.1	SB25-4.2	SB25-4.3	SB25-5.1	SB25-5.2	SB25-5.3	SB25-6.1	SB25-6.2
	LAB ID	206062	206063	206064	206065	206066	206067	206068	206069
OUND	UNITS								
ICS									
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
e	ug/Kg	1400 U	11 U	11 U	390 J	6800 U	160 J	11 U	11 U
	ug/Kg	1800	38	19	2800	6800 U	760 J	11 U	7 J
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
ne	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
ne	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
e (total)	ug/Kg	1400 U	11 U	11 U	310 J	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	9 J	11 U	1300 U	6800 U	1200 U	11 U	11 U
ne	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	6 J	11 U	1300 U	6800 U	1200 U	11 U	11 U
ane	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
de	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
thane	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
ane	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
opropene	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	280 J	6800 U	1200 U	11 U	11 U
thane	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
ane	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
opropene	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
tanone	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
oethane	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	820 J	4500 J	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	990 J	17000	1200	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	2900	50	110	14000	130000	9000	11 U	11 U
	ug/Kg	1400 U	11 U	11 U	1300 U	6800 U	1200 U	11 U	11 U
	ug/Kg	59 U	56 U	54 U	53 U	57 U	55 U	56 U	54 U
	ug/Kg	59 U	56 U	54 U	53 U	57 U	55 U	56 U	54 U
	ug/Kg	5.9 U	5.6 U	5.4 U	5.3 U	5.7 U	5.5 U	5.6 U	5.4 U
	ug/Kg	5.9 U	5.6 U	5.4 U	5.3 U	5.7 U	5.5 U	5.6 U	5.4 U
	ug/Kg	150 U	140 U	130 U	130 U	140 U	130 U	140 U	130 U
	ug/Kg	5.9 U	5.6 U	5.4 U	6.4	5.7 U	5.5 U	5.6 U	5.4 U
	ug/Kg	59 U	56 U	54 U	53 U	57 U	55 U	56 U	54 U
	ug/Kg	30 U	28 U	27 U	27 U	29 U	28 U	28 U	27 U
	ug/Kg	5900 U	5600 U	5400 U	5300 U	5700 U	5500 U	5600 U	5400 U
	ug/Kg	5900 U	5600 U	5400 U	5300 U	5700 U	5500 U	5600 U	5400 U
S									
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
ene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
e	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
ne	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
nitrotoluene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
nitrotoluene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	DEPTH (FEET)	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4
	SAMPLE DATE	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93
	ES ID	SB25-4.1	SB25-4.2	SB25-4.3	SB25-5.1	SB25-5.2	SB25-5.3	SB25-6.1	SB25-6.2
	LAB ID	206062	206063	206064	206065	206066	206067	206068	206069
OUND	UNITS								
RGANICS									
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
) ether	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
loropropane)	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
-propylamine	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ol	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
xy) methane	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ol	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
nzene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	770 J	1500 U	810 U	1500 J	330 J	4300 J	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
thylphenol	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
lene	ug/Kg	2600 J	1500 U	68 J	8900 J	550	7100 J	360 U	360 U
entadiene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
enol	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
enol	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
lene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	32 J	360 U
e	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
e	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
-phenylether	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	1500 J	170 J	95 J	1900 J	510 U	11000 U	28 J	360 U
	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
ethylphenol	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
l amine	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
-phenylether	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ne	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
l	ug/Kg	29000 U	3600 U	2000 U	27000 U	1200 U	27000 U	880 U	870 U
	ug/Kg	2700 J	350 J	160 J	4800 J	87 J	1000 J	370	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	42 J	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	26 J	360 U
ate	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	570	360 U
	ug/Kg	12000 U	1500 U	810 U	950 J	510 U	11000 U	560	360 U
ate	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
zidine	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ne	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	230 J	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	350 J	360 U
phthalate	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	360 U	360 U
ate	ug/Kg	12000 U	1500 U	810 U	11000 U	610 U	11000 U	360 U	360 U
ene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	240 J	360 U
ene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	260 J	360 U
	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	250 J	360 U
pyrene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	170 J	360 U
cene	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	72 J	360 U
ne	ug/Kg	12000 U	1500 U	810 U	11000 U	510 U	11000 U	200 J	360 U

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	DEPTH (FEET)	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4
	SAMPLE DATE	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93	12/03/93
	ES ID	SB25-4.1	SB25-4.2	SB25-4.3	SB25-5.1	SB25-5.2	SB25-5.3	SB25-6.1	SB25-6.2
	LAB ID	206062	206063	206064	206065	206066	206067	206068	206069
OUND	UNITS								
	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
dane)	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
e	ug/Kg	2 UJ	1.9 U	2.2 U	2.9 J	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	4.8 J	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	2.1 J	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	4.3	3.6 U
	ug/Kg	20 UJ	19 U	22 U	18 UJ	19 UJ	19 U	19 U	18 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	3.9 UJ	3.7 U	4.3 U	3.5 UJ	3.7 UJ	3.6 U	3.7 U	3.6 U
	ug/Kg	2 UJ	1.9 U	2.2 U	2.5 J	1.9 UJ	1.9 U	1.9 U	1.8 U
e	ug/Kg	2 UJ	1.9 U	2.2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U	1.8 U
	ug/Kg	200 UJ	190 U	220 U	180 UJ	190 UJ	190 U	190 U	180 U
	ug/Kg	39 UJ	37 U	43 U	35 UJ	37 UJ	36 U	37 U	36 U
	ug/Kg	79 UJ	74 U	86 U	71 UJ	75 UJ	74 U	74 U	73 U
	ug/Kg	39 UJ	37 U	43 U	35 UJ	37 UJ	36 U	37 U	36 U
	ug/Kg	39 UJ	37 U	43 U	35 UJ	37 UJ	36 U	37 U	36 U
	ug/Kg	39 UJ	37 U	43 U	35 UJ	37 UJ	36 U	37 U	36 U
	ug/Kg	33 NJ	37 U	43 U	130 J	37 UJ	36 U	37 U	36 U
	ug/Kg	39 UJ	37 U	43 U	35 UJ	37 UJ	36 U	37 U	36 U
	mg/Kg	19700	16600	7590	13200	23600	11600	10600	7070
	mg/Kg	4.2 U	4.5 U	4.6 U	2.5 J	3.8 U	4 U	4.2 U	3 U
	mg/Kg	12.2	7.4	9.1	5.1	8.3	8	8.3	4.8
	mg/Kg	57.4	86.1	46.1	61.8	160	61.1	59.1	35
	mg/Kg	0.86 J	0.82 J	0.76 J	0.57 J	1.1	0.54 J	0.48 J	0.35 J
	mg/Kg	0.41 U R	0.43 U R	0.44 U R	0.24 U R	0.37 U R	0.39 U R	0.41 U R	0.29 U R
	mg/Kg	5330	17800	128000	42600	5120	74200	82500	122000
	mg/Kg	26.4	26.8	15.8	21.1	30.4	17.5	16.9	11.3
	mg/Kg	11.5	16.8	5.6 J	10.8	14	9.5	11.2	6.6 J
	mg/Kg	35.7 J	28.3 J	11.4 J	17.6 J	34 J	22 J	20.2 J	12 J
	mg/Kg	38100	35200	14000	24400	31100	20700	21400	15800
	mg/Kg	66.4	16.4	156	77.2	16	15.6	9.5	13.8
	mg/Kg	5210	8550	21800	6590	6950	17800	19600	22800
	mg/Kg	281 J	776 J	344 J	433 J	697 J	423 J	722 J	610 J
	mg/Kg	0.04 J	0.04 J	0.04 U	0.03 U	0.96	0.04 U	0.03 J	0.04 U
	mg/Kg	34.4	47.8	14.2	30.8	45.2	29.1	26.8	18
	mg/Kg	1430	1410	1960	1790	3250	2090	1480	1060
	mg/Kg	0.92 J	0.65 J	1.5 J	1 J	0.67 J	0.66 J	0.97 J	0.63 J
	mg/Kg	0.81 U	0.87 U	0.89 U	0.48 U	0.73 U	0.78 U	0.82 U	0.59 U
	mg/Kg	55.2 J	81.3 J	176 J	97.4 J	98.1 J	182 J	269 J	186 J
	mg/Kg	0.51 J	0.48 J	0.79 J	0.55 J	0.62 J	0.23 J	0.24 UJ	0.21 UJ
	mg/Kg	34.1	27.5	14.8	17.5	40.8	20.5	18.5	12
	mg/Kg	72.9 J	210 J	67 J	51.9 J	60.5 J	76.6 J	71.6 J	40.6 J
	mg/Kg	0.66 U	0.59 U	0.57 U	0.55 U	0.63 U	0.65 U	0.58 U	0.64 U
S									
rogen	mg/Kg	0.01 U	0.01 U	0.01	0.01 U	0.01	0.02	0.17	0.01 U
	%W/W	85.2	89.7	93	94.3	87.5	91.5	90	91.6
ydrocarbons	mg/Kg	5800	770	800	740	27000	2100	99	112
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	SAMPLE DATE	02/06/94	02/06/94	02/05/94	11/15/93	11/15/93
	ES ID	MW25-1	MW25-4	MW25-2	MW25-3	MW25-3RE
	LAB ID	210541	210543	210460	204633,	204633
OUND	UNITS		MW25-1DUP		204658	
ICS						
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
e	ug/L	10 U	10 U	1 J	10 U	NS
e	ug/L	10 U	10 U	8 J	3 J	NS
e (total)	ug/L	10 U	10 U	25	2 J	NS
	ug/L	10 U	10 U	17	10 U	NS
e	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
ane	ug/L	10 U	10 U	36	10 U	NS
de	ug/L	10 U	10 U	10 U	10 U	NS
hane	ug/L	10 U	10 U	10 U	10 U	NS
ne	ug/L	10 U	10 U	10 U	10 U	NS
ropene	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10	10 U	NS
hane	ug/L	10 U	10 U	10 U	10 U	NS
ane	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	780	30	NS
opropene	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
tanone	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	1 J	10 U	NS
oethane	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	560	6 J	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	110	18	NS
	ug/L	10 U	10 U	10 U	10 U	NS
	ug/L	10 U	10 U	2500	82	NS
	ug/L	ND	ND	NA	ND	NS
	ug/L	1.2 U	1.1 U	1.1 U	1.1 U	NS
	ug/L	1.2 U	1.1 U	1.1 U	1.1 U	NS
	ug/L	0.12 U	0.11 U	0.11 U	0.11 U	NS
	ug/L	0.12 U	0.11 U	0.11 U	0.11 U	NS
	ug/L	2.6 U	2.6 U	2.6 U	2.5 U	NS
	ug/L	0.12 U	0.11 U	0.11 U	0.11 U	NS
	ug/L	1.2 U	1.1 U	1.1 U	1.1 U	NS
	ug/L	0.56 U	0.55 U	0.55 U	0.53 U	NS
	ug/L	120 U	110 U	110 U	110 U	NS
	ug/L	120 U	110 U	110 U	110 U	NS
S						
	ug/L	NS	NS	NS	NS	NS
	ug/L	NS	NS	NS	NS	NS
ene	ug/L	NS	NS	NS	NS	NS
e	ug/L	NS	NS	NS	NS	NS
	ug/L	NS	NS	NS	NS	NS
ne	ug/L	NS	NS	NS	NS	NS
itrotoluene	ug/L	NS	NS	NS	NS	NS
itrotoluene	ug/L	NS	NS	NS	NS	NS
	ug/L	NS	NS	NS	NS	NS
	ug/L	NS	NS	NS	NS	NS

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	SAMPLE DATE	02/06/94	02/08/94	02/05/94	11/15/93	11/15/93
	ES ID	MW25-1	MW25-4	MW25-2	MW25-3	MW25-3RE
	LAB ID	210541	210543	210480	204633,	204633
OUND	UNITS		MW25-1DUP		204658	
IGANICS						
	ug/L	10 U	10 U	56	11 U	12 U
ether	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
ene	ug/L	10 U	10 U	25 U	11 U	12 U
ene	ug/L	10 U	10 U	25 U	11 U	12 U
ene	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	23 J	11 U	12 U
loropropane)	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	42	11 U	12 U
-propylamine	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
ol	ug/L	10 U	10 U	86	11 U	12 U
y) methane	ug/L	10 U	10 U	25 U	11 U	12 U
ol	ug/L	10 U	10 U	25 U	11 U	12 U
nzene	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	86	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
ne	ug/L	10 U	10 U	25 U	11 U	12 U
hylphenol	ug/L	10 U	10 U	25 U	11 U	12 U
ene	ug/L	10 U	10 U	37	11 U	12 U
entadiene	ug/L	10 U	10 U	25 U	11 U	12 U
enol	ug/L	10 U	10 U	25 U	11 U	12 U
enol	ug/L	25 U	25 U	62 U	26 U	29 U
ene	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	25 U	25 U	62 U	26 U	29 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	25 U	25 U	62 U	26 U	29 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	25 U	25 U	62 U	26 U	29 U
	ug/L	25 U	25 U	62 U	26 U	29 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
phenylether	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	1 J	11 U	12 U
	ug/L	25 U	25 U	62 U	26 U	29 U
ethylphenol	ug/L	25 U	25 U	62 U	26 U	29 U
Hamine	ug/L	10 U	10 U	25 U	11 U	12 U
phenylether	ug/L	10 U	10 U	25 U	11 U	12 U
ne	ug/L	10 U	10 U	25 U	11 U	12 U
d	ug/L	25 U	25 U	62 U	26 U	29 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
ate	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
ate	ug/L	10 U	10 U	25 U	11 U	12 U
cidine	ug/L	10 U	10 U	25 U	11 U	12 U
ne	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
ohthalate	ug/L	10 U	10 U	25 U	11 U	12 U
ate	ug/L	10 U	10 U	25 U	11 U	12 U
ene	ug/L	10 U	10 U	25 U	11 U	12 U
ene	ug/L	10 U	10 U	25 U	11 U	12 U
	ug/L	10 U	10 U	25 U	11 U	12 U
pyrene	ug/L	10 U	10 U	25 U	11 U	12 U
cene	ug/L	10 U	10 U	25 U	11 U	12 U
ne	ug/L	10 U	10 U	25 U	11 U	12 U

SENECA ARMY DEPOT
SEAD-25 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
	SAMPLE DATE	02/06/94	02/06/94	02/05/94	11/15/93	11/15/93
	ES ID	MW25-1	MW25-4	MW25-2	MW25-3	MW25-3RE
	LAB ID	210541	210543	210480	204633,	204633
OUND	UNITS		MW25-1DUP		204658	
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
dane)	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
le	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.56 U	0.6 U	0.6 U	0.53 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.11 U	0.12 U	0.12 U	0.11 U	NS
	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
ne	ug/L	0.056 U	0.06 U	0.06 U	0.053 U	NS
	ug/L	5.6 U	6 U	6 U	5.3 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	2.2 U	2.4 U	2.4 U	2.1 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	1.1 U	1.2 U	1.2 U	1.1 U	NS
	ug/L	894 J	1870 J	53.3 J	2260	NS
	ug/L	24.9 J	36.3 J	22.4 J	52.7 U	NS
	ug/L	1.4 U	1.4 U	3.8 J	1 U	NS
	ug/L	115 J	121 J	74.1 J	54 J	NS
	ug/L	0.4 U	0.4 U	0.4 U	0.31 J	NS
	ug/L	2.1 U	2.1 U	2.1 U	3.3 U	NS
	ug/L	142000	145000	143000	119000	NS
	ug/L	2.6 J	2.6 U	2.6 U	5 J	NS
	ug/L	4.4 U	4.4 U	4.4 U	7.9 J	NS
	ug/L	3.1 U	3.1 U	3.1 U	4.4 J	NS
	ug/L	1300 J	3200 J	3730	4150	NS
	ug/L	3	2.7 J	2 J	3	NS
	ug/L	26100	25900	48000	22000	NS
	ug/L	213	241	1330	2440	NS
	ug/L	0.05 J	0.05 J	0.04 U	0.07 UJ	NS
	ug/L	4.4 J	6.8 J	4.7 J	11.5 J	NS
	ug/L	906 U	1010 J	9550	4170 J	NS
	ug/L	0.73 J	0.7 U	0.7 U	0.8 U	NS
	ug/L	4.2 U	4.2 U	4.2 U	6.7 U	NS
	ug/L	52900	54100	13100	11500	NS
	ug/L	1.2 U	1.2 U	1.2 U	1.8 U	NS
	ug/L	3.7 U	3.7 U	3.7 U	5.4 J	NS
	ug/L	12.4 J	20.2	31.3	20	NS
	ug/L	5 U	5 U	5 U	5 U	NS
S						
rogen	mg/L	0.16	0.17	0.01 U	0.07	NS
ydrocarbons	mg/L	0.4 U	0.4 U	2	1.6	NS
	mg/L	NS	NS	NS	NS	NS
	standard units	7.01	NS	7.08	7.52	NS
vity	umhos/cm	600	NS	600	510	NS
	NTU	56.4	NS	3.6	2.2	NS

SEAD-26

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93
	ES ID	SS26-1	SS26-1RE	SS26-2	SS26-2RE	SS26-3	SS26-9	SS26-4	SS26-5	SS26-6
	LAB ID	202245	202245	202246	202246	202247	202255	202249	202251	202252
OUND	UNITS						SS26-3DUP			
CS										
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 J	11 UJ	7 J	12 UJ	11 UJ	11 UJ	10 U	6 J	10 U
	ug/Kg	10 J	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
e	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
e	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
e (total)	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	6 J	11 UJ	10 U	10 U	10 U
e	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
ane	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
le	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
ane	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
ne	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
ropene	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
ane	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
ane	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
opropene	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
anone	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
oethane	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	11 UJ	11 UJ	12 UJ	12 UJ	11 UJ	11 UJ	10 U	10 U	10 U
	ug/Kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ug/Kg	55 U	NS	260	NS	56 U	57 U	54 U	52 U	51 U
	ug/Kg	55 U	NS	170 U	NS	56 U	57 U	54 U	52 U	51 U
	ug/Kg	15	NS	220	NS	11	5.7 U	5.4 U	5.2 U	5.1 U
	ug/Kg	5.5 U	NS	17 U	NS	5.6 U	5.7 U	5.4 U	5.2 U	5.1 U
	ug/Kg	140 U	NS	410 U	NS	140 U	140 U	130 U	130 U	130 U
	ug/Kg	5.5 U	NS	17 U	NS	5.6 U	5.7 U	5.4 U	5.2 U	5.1 U
	ug/Kg	55 U	NS	170 U	NS	56 U	57 U	54 U	52 U	51 U
	ug/Kg	28 U	NS	84 U	NS	28 U	29 U	27 U	26 U	26 U
	ug/Kg	5500 U	NS	17000 U	NS	5600 U	5700 U	5400 U	5200 U	5100 U
	ug/Kg	5500 U	NS	17000 U	NS	5600 U	5700 U	5400 U	5200 U	5100 U
	ug/Kg	130 U	NS	99 J	NS	110 J	130 UJ	130 U	130 UJ	120 J
	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
one	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
e	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
ne	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
itrotoluene	ug/Kg	130 U	NS	130 U	NS	130 J	130 UJ	130 U	130 UJ	130 UJ
itrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	130 U	NS	130 U	NS	130 U	130 UJ	130 U	130 UJ	130 UJ
	ug/Kg	290 J	NS	330 J	NS	420 J	400 J	130 U	130 UJ	130 UJ

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED
ND stands for NOT DETECTED

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
SAMPLE DATE	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93
ES ID	SS26-1	SS26-1RE	SS26-2	SS26-2RE	SS26-3	SS26-9	SS26-4	SS26-5	SS26-6
LAB ID	202245	202245	202246	202246	202247	202255	202249	202251	202252
UNITS						SS26-3DUP			
OUND									
GANICS									
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ether ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
oropropane) ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
propylamine ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
l ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
y) methane ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
l ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
zene ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	24 J	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
hylphenol ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ne ug/Kg	19000 U	NS	590 J	NS	45000 U	38000 U	41 J	26 J	1100 U
ntadiene ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
nol ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
nol ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ene ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	180 J	340 U	150 J
ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	62 J	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
phenylether ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	130 J	340 U	130 J
ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ethylphenol ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
amine ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
phenylether ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
e ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ug/Kg	46000 U	NS	9800 U	NS	10000 U	95000 U	1100 U	830 U	2700 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	1600	340 U	2700
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	240 J	340 U	480 J
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	230 J	340 U	570 J
te ug/Kg	19000 U	NS	4000 U	NS	6200 J	38000 U	450 U	340 U	1100 U
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	2300	340 U	7000
ug/Kg	1700 J	NS	720 J	NS	2500 J	3400 J	1900	19 J	6200
te ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	210 J
idine ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
e ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	750	340 U	3700
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	940	31 J	4300
hthalate ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
te ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	1100 U
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	780	90 J	4000
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	690	39 J	3500
ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	720	46 J	3400
yrene ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	390 J	44 J	1500
ene ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	450 U	340 U	750 J
ne ug/Kg	19000 U	NS	4000 U	NS	45000 U	38000 U	250 J	42 J	900 J

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93
	ES ID	SS26-1	SS26-1RE	SS26-2	SS26-2RE	SS26-3	SS26-9	SS26-4	SS26-5	SS26-6
	LAB ID	202245	202245	202246	202246	202247	202255	202249	202251	202252
OUND	UNITS						SS26-3DUP			
	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.4 J	3.5 U
	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
dane)	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
e	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
	ug/Kg	9.4 U	NS	9.6 U	NS	5.3 J	9.7 U	1.8 U	1.8 U	3.5 U
	ug/Kg	18 U	NS	19 U	NS	4.2 J	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	17 J	NS	14 J	NS	4.4 J	19 U	6 J	3.4 U	6.7 U
	ug/Kg	18 U	NS	19 U	NS	7.4 U	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	35 J	NS	60 J	NS	7.4 U	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	22	NS	19 U	NS	7.4 U	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	21 J	NS	23 J	NS	7.4 U	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	18 U	NS	19 U	NS	7.4 U	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	94 U	NS	96 U	NS	21 J	97 U	18 U	18 U	35 U
	ug/Kg	18 U	NS	19 U	NS	7.4 U	19 U	3.6 U	3.4 U	6.7 U
	ug/Kg	18 U	NS	23 J	NS	15 J	17 J	3.6 U	3.4 U	6.7 U
	ug/Kg	9.4 U	NS	9.6 U	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
e	ug/Kg	5.9 J	NS	7.8 J	NS	3.8 U	9.7 U	1.8 U	1.8 U	3.5 U
	ug/Kg	940 U	NS	960 U	NS	380 U	970 U	180 U	180 U	350 U
	ug/Kg	180 U	NS	190 U	NS	74 U	190 U	36 U	34 U	67 U
	ug/Kg	370 U	NS	380 U	NS	150 U	380 U	73 U	70 U	140 U
	ug/Kg	180 U	NS	190 U	NS	74 U	190 U	36 U	34 U	67 U
	ug/Kg	180 U	NS	190 U	NS	74 U	190 U	36 U	34 U	67 U
	ug/Kg	180 U	NS	190 U	NS	74 U	190 U	36 U	34 U	67 U
	ug/Kg	180 U	NS	190 U	NS	74 U	190 U	36 U	34 U	67 U
	ug/Kg	180 U	NS	190 U	NS	74 U	190 U	36 U	34 U	67 U
	mg/Kg	1750	NS	1560	NS	2050	1640	10900	5830	2650
	mg/Kg	8.9 UJ	NS	10.9 UJ	NS	7.4 UJ	8.5 UJ	8.1 UJ	7 UJ	8 UJ
	mg/Kg	3.3	NS	6.5	NS	6	7.5	9.6	3.6	10.8
	mg/Kg	73.9	NS	45.7	NS	18 J	17.3 J	70.1	21.5 J	25.8 J
	mg/Kg	0.25 J	NS	0.2 J	NS	0.24 J	0.22 J	0.46 J	0.22 J	0.23 J
	mg/Kg	0.56 J	NS	0.68 U	NS	0.47 U	0.53 U	0.51 U	0.44 U	0.5 U
	mg/Kg	293000	NS	284000	NS	271000	285000	48100	44200	213000
	mg/Kg	3.8	NS	3.9	NS	3.9	3.5	17.6	8.9	31.1
	mg/Kg	2.7 J	NS	3.6 J	NS	2.8 J	3.1 J	9.7	4.5 J	5.7 J
	mg/Kg	12.8	NS	11.8	NS	10.5	11.6	19.3	16.5	259
	mg/Kg	3510	NS	5970	NS	3270	3860	22100	11900	70200
	mg/Kg	6.8	NS	3.4	NS	3.2	3.7	20.6	8.7	522
	mg/Kg	7980	NS	8180	NS	7810	9370	7160	15500	12800
	mg/Kg	213	NS	212	NS	198	241	396	264	536
	mg/Kg	0.02 U	NS	0.87	NS	0.04 U	0.38	0.02 J	0.55	0.02 U
	mg/Kg	12.2 R	NS	13.4 R	NS	56 R	14.1 R	30.3 R	14.8 R	20.1 R
	mg/Kg	1030	NS	849 J	NS	1170	1010	1400	1050	1050
	mg/Kg	0.23 U	NS	0.24 J	NS	0.23 U	0.35 J	0.19 U	0.21 U	0.19 U
	mg/Kg	1.1 UJ	NS	1.4 UJ	NS	0.95 UJ	1.1 UJ	1 UJ	0.89 UJ	1 UJ
	mg/Kg	224 J	NS	236 J	NS	216 J	238 J	125 J	104 J	212 J
	mg/Kg	2.5 UJ	NS	2.6 UJ	NS	2.5 UJ	1.5 UJ	0.21 UJ	0.23 UJ	0.2 UJ
	mg/Kg	12.2	NS	8.5 J	NS	10.5	9.2	17.3	12.4	11
	mg/Kg	96.9 R	NS	35.5 R	NS	105 R	31.3 R	75.9 R	51.5 R	164 R
	mg/Kg	0.54 U	NS	0.56 U	NS	0.56	0.56 U	0.52 U	0.51 U	0.5 U
3										
ogen	mg/Kg	0.85	NS	0.22	NS	0.05	0.12	0.07	0.14	0.04
	%W/W	89.6	NS	88.6	NS	88.6	88.4	92.5	96.4	97.6
ydrocarbons	mg/Kg	76	NS	71	NS	21000	17900	680	117	97
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.2	0-2	0-2	2-4	2-4	0-2	0-2	0-2	8-10
	SAMPLE DATE	10/25/93	11/17/93	11/17/93	11/17/93	11/17/93	11/18/93	11/18/93	11/18/93	11/18/93
	ES ID	SS26-8	SB26-1.1	SB26-1.1RE	SB26-1.2	SB26-1.2RE	SB26-2.1	SB26-2.5	SB26-2.5RE	SB26-2.6
	LAB ID	202254	204829	204829	204830	204830	205095	205096	205096	205097
OUND	UNITS							SB26-2.1DUP	SB26-2.1DUP	
ICS										
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	12 U	11 U	NS	11 U	NS	11 U	10 U	4 J R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	25 U	10 U	10 U R	13 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
e	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
e	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
e (total)	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
e	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
ane	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
de	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
hane	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
ne	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
ropene	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
hane	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
ane	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
opropene	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
anone	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
oethane	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	3 J	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	11 U	11 U	NS	11 U	NS	11 U	10 U	10 U R	12 U
	ug/Kg	NA	ND	NS	ND	NS	10 U	10 U	10 U R	10 U
	ug/Kg	54 U	55 U R	55 UJ	57 U R	57 UJ	55 U	53 U	NS	63 U
	ug/Kg	54 U	55 U R	55 UJ	57 U R	57 UJ	55 U	53 U	NS	63 U
	ug/Kg	5.4 U	5.5 U R	5.5 UJ	5.7 U R	5.7 UJ	5.5 U	5.3 U	NS	6.3 U
	ug/Kg	5.4 U	5.5 U R	5.5 UJ	5.7 U R	5.7 UJ	5.5 U	5.3 U	NS	6.3 U
	ug/Kg	130 U	140 U R	140 UJ	140 U R	140 UJ	140 U	130 U	NS	150 U
	ug/Kg	5.4 U	5.5 U R	5.5 UJ	5.7 U R	5.7 UJ	5.5 U	5.3 U	NS	6.3 U
	ug/Kg	54 U	55 U R	55 UJ	57 U R	57 UJ	55 U	53 U	NS	63 U
	ug/Kg	27 U	28 U R	28 UJ	29 U R	29 UJ	28 U	27 U	NS	32 U
	ug/Kg	5400 U	5500 U R	5500 UJ	5700 U R	5700 UJ	5500 U	5300 U	NS	6300 U
	ug/Kg	5400 U	5500 U R	5500 UJ	5700 U R	5700 UJ	5500 U	5300 U	NS	6300 U
S										
	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
ene	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
e	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
ne	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 UJ	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.2	0-2	0-2	2-4	2-4	0-2	0-2	0-2	8-10
	SAMPLE DATE	10/25/93	11/17/93	11/17/93	11/17/93	11/17/93	11/18/93	11/18/93	11/18/93	11/18/93
	ES ID	SS26-8	SB26-1.1	SB26-1.1RE	SB26-1.2	SB26-1.2RE	SB26-2.1	SB26-2.5	SB26-2.5RE	SB26-2.6
	LAB ID	202254	204829	204829	204830	204830	205095	205096	205096	205097
OUND	UNITS							SB26-2.1DUP	SB26-2.1DUP	
GANICS										
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ether	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ne	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ne	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ne	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
oropropane)	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
propylamine	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
d	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
y) methane	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
l	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
nzene	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ne	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
hylphenol	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ene	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ntadiene	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
enol	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
enol	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
ene	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
phenylether	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
ethylphenol	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
lamine	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
phenylether	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
e	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	850 U	880 U	NS	920 U	NS	880 U	850 U	NS	990 U
	ug/Kg	140 J	24 J	NS	380 U	NS	31 J	22 J	NS	410 U
	ug/Kg	24 J	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ate	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	310 J	69 J	NS	380 U	NS	52 J	30 J	NS	410 U
	ug/Kg	250 J	56 J	NS	380 U	NS	44 J	48 J	NS	410 U
te	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
idine	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
e	ug/Kg	130 J	31 J	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	150 J	42 J	NS	380 U	NS	360 U	27 J	NS	410 U
hthalate	ug/Kg	53 J	360 U	NS	380 U	NS	700	660	NS	410 U
te	ug/Kg	350 U	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ene	ug/Kg	130 J	36 J	NS	380 U	NS	360 U	350 U	NS	410 U
ene	ug/Kg	130 J	36 J	NS	380 U	NS	360 U	350 U	NS	410 U
	ug/Kg	130 J	34 J	NS	380 U	NS	360 U	350 U	NS	410 U
pyrene	ug/Kg	66 J	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
cene	ug/Kg	30 J	360 U	NS	380 U	NS	360 U	350 U	NS	410 U
ne	ug/Kg	100 J	360 U	NS	380 U	NS	360 U	350 U	NS	410 U

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.2	0-2	0-2	2-4	2-4	0-2	0-2	0-2	8-10
	SAMPLE DATE	10/25/93	11/17/93	11/17/93	11/17/93	11/17/93	11/18/93	11/18/93	11/18/93	11/18/93
	ES ID	SS26-8	SB26-1.1	SB26-1.1RE	SB26-1.2	SB26-1.2RE	SB26-2.1	SB26-2.5	SB26-2.5RE	SB26-2.6
	LAB ID	202254	204829	204829	204830	204830	205095	205096	205096	205097
OUND	UNITS							SB26-2.1DUP	SB26-2.1DUP	
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
dane)	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
e	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	3.5 U	3 J	NS	3.8 U	NS	2.7 J	3.2 J	NS	4.1 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	3.5 U	3.5 J	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	18 U	19 U	NS	20 U	NS	19 U	18 U	NS	21 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	3.5 U	3.6 U	NS	3.8 U	NS	3.6 U	3.5 U	NS	4.1 U
	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
e	ug/Kg	1.8 U	1.9 U	NS	2 U	NS	1.9 U	1.8 U	NS	2.1 U
	ug/Kg	180 U	190 U	NS	200 U	NS	190 U	180 U	NS	210 U
	ug/Kg	35 U	36 U	NS	38 U	NS	36 U	35 U	NS	41 U
	ug/Kg	72 U	74 U	NS	77 U	NS	73 U	71 U	NS	82 U
	ug/Kg	35 U	36 U	NS	38 U	NS	36 U	35 U	NS	41 U
	ug/Kg	35 U	36 U	NS	38 U	NS	36 U	35 U	NS	41 U
	ug/Kg	35 U	36 U	NS	38 U	NS	36 U	35 U	NS	41 U
	ug/Kg	35 U	36 U	NS	38 U	NS	36 U	35 U	NS	41 U
	ug/Kg	35 U	36 U	NS	38 U	NS	36 U	35 U	NS	41 U
	mg/Kg	9400	5560	NS	9040	NS	5230	7900	NS	21000
	mg/Kg	7.4 UJ	7.3 UJ	NS	6.7 UJ	NS	9.1 UJ	8.8 UJ	NS	11.5 UJ
	mg/Kg	7.5	3.2	NS	5.3	NS	6.5 J	5.3 J	NS	8.6 J
	mg/Kg	36.1	73.2	NS	43.7	NS	21.1 J	102 J	NS	83.6
	mg/Kg	0.47 J	0.35 J	NS	0.41 J	NS	0.32 J	0.46 J	NS	0.97 J
	mg/Kg	0.46 U	0.46 U	NS	0.42 U	NS	0.57 U	0.55 U	NS	0.72 U
	mg/Kg	157000	293000	NS	47300	NS	238000	189000	NS	2090
	mg/Kg	15.2	10.3	NS	15.7	NS	8.8	13.9	NS	32.4
	mg/Kg	8.4	5.9 J	NS	9.5	NS	5.6 J	10.1	NS	17.5
	mg/Kg	22.5	9.7	NS	14.3	NS	10.6	14.3	NS	24.4
	mg/Kg	17200	8770	NS	19100	NS	11400	15500	NS	44100
	mg/Kg	16.1	6.33	NS	8.5	NS	10.3	15.5	NS	10.3
	mg/Kg	8460	29100	NS	9160	NS	7790	18100	NS	7210
	mg/Kg	297	309	NS	551	NS	442 R	433 R	NS	279 R
	mg/Kg	0.09	0.02 U	NS	0.02 U	NS	0.03 UJ	0.03 UJ	NS	0.05 J
	mg/Kg	31.6 R	16.3	NS	23.9	NS	17.5	29.2	NS	46.2
	mg/Kg	1970	1710	NS	901	NS	882	1710	NS	1490
	mg/Kg	0.15 J	0.13 UJ	NS	0.26 J	NS	0.14 UJ	0.14 UJ	NS	0.32 J
	mg/Kg	0.94 UJ	0.92 UJ	NS	0.85 UJ	NS	1.2 U	1.1 U	NS	1.5 U
	mg/Kg	183 J	192 J	NS	108 J	NS	163 J	175 J	NS	67.1 J
	mg/Kg	1.5 UJ	0.73 U	NS	0.17 U	NS	0.2 U	1 U	NS	0.28 U
	mg/Kg	17.4	12.7	NS	14.4	NS	10.9	15.9	NS	28
	mg/Kg	283 R	56	NS	90.6	NS	29.5	54.8	NS	69.3
	mg/Kg	0.54 U	0.46 U	NS	0.57 U	NS	0.53 U	0.5 U	NS	0.6 U
S										
rogen	mg/Kg	0.09	0.43	NS	0.46	NS	0.05	0.1	NS	0.26
	%W/W	92.8	91.2	NS	87.1	NS	91.1	93.6	NS	80.5
ydrocarbons	mg/Kg	260	43	NS	36	NS	42	57	NS	74
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-2	6-8	10-12	0-2	2-4	6-8	0-0.7	5.0+	0-0.7
	SAMPLE DATE	11/18/93	11/18/93	11/18/93	11/19/93	11/19/93	11/19/93	11/18/93	11/18/93	11/18/93
	ES ID	SB26-3.1	SB26-3.4	SB26-3.6	SB26-4.1	SB26-4.2	SB26-4.4	TP26-1.1	TP26-1.2	TP26-2.1
	LAB ID	205099	205100	205101	205102	205103	205104	205105	205106	205113
OUND	UNITS									
CS										
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
e	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
e	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
e (total)	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
e	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
ane	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
le	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
hane	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
ne	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
ropene	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
hane	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
ne	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
opropene	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
anone	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
oethane	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	12 U	12 U	13 U	11 U	11 U	12 U	11 U	12 U	11 U
	ug/Kg	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/Kg	58 U	61 U	58 U	57 U	56 U	58 U	57 U	57 U	54 U
	ug/Kg	58 U	61 U	58 U	57 U	56 U	58 U	57 U	57 U	54 U
	ug/Kg	5.8 U	6.1 U	5.8 U	5.7 U	5.6 U	5.8 U	5.7 U	5.7 U	5.4 U
	ug/Kg	5.8 U	6.1 U	5.8 U	5.7 U	5.6 U	5.8 U	5.7 U	5.7 U	5.4 U
	ug/Kg	140 U	150 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U
	ug/Kg	5.8 U	6.1 U	5.8 U	5.7 U	5.6	5.8 U	9.1	5.7 U	5.4 U
	ug/Kg	58 U	61 U	58 U	57 U	56 U	58 U	57 U	57 U	54 U
	ug/Kg	29 U	31 U	29 U	29 U	28 U	29 U	27 U	29 U	27 U
	ug/Kg	5800 U	6100 U	5800 U	5700 U	29000	5800	8100	5700 U	5400 U
	ug/Kg	5800 U	6100 U	5800 U	5700 U	5600 U	5800 U	5700 U	5700 U	5400 U
S										
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
ene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
e	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
ne	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-2	6-8	10-12	0-2	2-4	6-8	0-0.7	5.0+	0-0.7
	SAMPLE DATE	11/18/93	11/18/93	11/18/93	11/19/93	11/19/93	11/19/93	11/18/93	11/18/93	11/18/93
	ES ID	SB26-3.1	SB26-3.4	SB26-3.6	SB26-4.1	SB26-4.2	SB26-4.4	TP26-1.1	TP26-1.2	TP26-2.1
	LAB ID	205099	205100	205101	205102	205103	205104	205105	205106	205113
OUND	UNITS									
IGANICS										
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ether	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ne	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ne	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ne	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
oropropane)	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
-propylamine	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
d	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
y) methane	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
l	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
nzene	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ne	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
nylphenol	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ene	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ntadiene	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
enol	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
enol	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5600 U
ene	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
phenylether	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	22 J	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
ethylphenol	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
lamine	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
phenylether	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
e	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
l	ug/Kg	930 U	980 U	930 UJ	910 U	900 U	930 U	6100 U	910 U	5800 U
	ug/Kg	380 U	190 J	380 UJ	370 U	370 U	64 J	2500 U	370 U	2400 U
	ug/Kg	380 U	45 J	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ate	ug/Kg	360 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
	ug/Kg	380 U	170 J	380 UJ	24 J	370 U	71 J	2500 U	370 U	300 J
	ug/Kg	380 U	130 J	380 UJ	30 J	370 U	64 J	2500 U	370 U	250 J
te	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
idine	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
e	ug/Kg	380 U	65 J	380 UJ	370 U	370 U	28 J	2500 U	370 U	160 J
	ug/Kg	380 U	69 J	380 UJ	370 U	370 U	46 J	2500 U	370 U	180 J
hthalate	ug/Kg	380 U	400 U	230 J	930	820	380 U	2500 U	370 U	2400 U
te	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ene	ug/Kg	380 U	42 J	380 UJ	370 U	370 U	33 J	2500 U	370 U	130 J
one	ug/Kg	380 U	51 J	380 UJ	370 U	370 U	41 J	2500 U	370 U	190 J
	ug/Kg	360 U	55 J	380 UJ	370 U	370 U	40 J	2500 U	370 U	200 J
pyrene	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
cene	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U
ne	ug/Kg	380 U	400 U	380 UJ	370 U	370 U	380 U	2500 U	370 U	2400 U

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	
	DEPTH (FEET)	0-2	6-8	10-12	0-2	2-4	6-8	0-0.7	5.0+	0-0.7	
	SAMPLE DATE	11/18/93	11/18/93	11/18/93	11/19/93	11/19/93	11/19/93	11/18/93	11/18/93	11/18/93	
	ES ID	SB26-3.1	SB26-3.4	SB26-3.6	SB26-4.1	SB26-4.2	SB26-4.4	TP26-1.1	TP26-1.2	TP26-2.1	
	LAB ID	205099	205100	205101	205102	205103	205104	205105	205106	205113	
OUND	UNITS										
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
lane)	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	6.4	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	20 U	21 U	20 U	19 U	19 U	20 U	19 U	19 U	18 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	3.8 U	4 U	3.8 U	3.7 U	3.7 U	3.8 U	3.7 U	3.7 U	3.6 U	
	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
e	ug/Kg	2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	
	ug/Kg	200 U	210 U	200 U	190 U	190 U	200 U	190 U	190 U	180 U	
	ug/Kg	38 U	40 U	38 U	37 U	37 U	38 U	37 U	37 U	36 U	
	ug/Kg	76 U	81 U	76 U	76 U	75 U	76 U	76 U	76 U	73 U	
	ug/Kg	38 U	40 U	38 U	37 U	37 U	38 U	37 U	37 U	36 U	
	ug/Kg	38 U	40 U	38 U	37 U	37 U	38 U	37 U	37 U	36 U	
	ug/Kg	38 U	40 U	38 U	37 U	37 U	38 U	37 U	37 U	36 U	
	ug/Kg	38 U	40 U	38 U	37 U	37 U	38 U	37 U	37 U	36 U	
	ug/Kg	38 U	40 U	38 U	37 U	37 U	38 U	37 U	37 U	36 U	
	mg/Kg	13700	14400	12900	14300	13800	15300	13100	10000	10000	1
	mg/Kg	10.4 UJ	12.5 UJ	6.6 UJ	9.2 UJ	9.3 UJ	11.4 UJ	8 UJ	10.5 UJ	9.1 UJ	
	mg/Kg	8.3 J	8.4 J	8.7 J	13 J	10.3 J	10.2 J	6.8 J	5.9 J	10 J	
	mg/Kg	77.1	93.2	57.5	87.3	62.4	74.3	105	67.3	38.2	
	mg/Kg	0.69 J	0.66 J	0.61 J	0.67 J	0.61 J	0.73 J	0.62 J	0.47 J	0.48 J	
	mg/Kg	0.65 U	0.78 U	0.41 U	0.57 U	0.58 U	0.71 U	0.5 U	0.88 U	0.57 U	
	mg/Kg	25600	20100	2820	26000	17500	14500	18500	65400	9330	4
	mg/Kg	20.7	20.9	21.4	22.7	22.2	23.5	20.2	15.2	16.5	
	mg/Kg	10.8	7.9 J	11.8	15.6	12	14.8	12.5	8.7 J	10	
	mg/Kg	20.6	18.3	23.2	28.8	18.9	24.1	16	23.5	13.9	
	mg/Kg	28400	25900	29600	31700	29000	33200	28300	20400	22200	2
	mg/Kg	20.7	14.9	10.5	14.6	11.7	13.1	13.6	11.9	6.5	
	mg/Kg	8760	4810	5290	6910	6330	6290	5340	15300	4720	
	mg/Kg	466 R	561 R	486 R	696 R	541 R	668 R	814 R	433 R	461 R	
	mg/Kg	0.03 J	0.03 J	0.03 J	0.04 J	0.04 J	0.03 J	0.04 UJ	0.03 UJ	0.01 UJ	
	mg/Kg	29.7	29.1	34.7	35.2	32.8	38.5	31.1	28.7	25.5	
	mg/Kg	1140	1130 J	1110	1370	1140	1390	950	1180	573 J	
	mg/Kg	0.48 J	0.79 J	0.18 UJ	0.37 J	0.58 J	0.28 J	0.25 J	0.57 J	0.31 J	
	mg/Kg	1.3 U	1.6 U	0.64 U	1.2 U	1.2 U	1.4 U	1 U	1.3 U	1.1 U	
	mg/Kg	71.6 J	60.9 J	56.8 J	119 J	67.6 J	78 J	60.9 J	110 J	56.7 J	
	mg/Kg	0.21 U	0.26 U	0.27 U	0.23 U	0.14 U	0.26 U	0.2 U	0.25 U	0.23 U	
	mg/Kg	22.2	21.8	19.5	20.1	18.6	22.2	16.5	16.3	12.6	
	mg/Kg	64.9	78.2	72.5	64.9	72.4	115	60.7	60.1	59.6	
	mg/Kg	0.57 U	0.59 U	0.56 U	0.53 U	0.54 U	0.52 U	0.54 U	0.49 U	0.49 U	
S											
ogen	mg/Kg	0.14	1.06	0.07	0.75	0.37	1.55	0.32	0.72	0.03	
	%W/W	85.7	82	86.1	88.3	89	85.6	87.7	88.3	91.6	
drocarbons	mg/Kg	69	71	74	90	65	66	67	71	72	
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS	

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-1	0-1	6.5-7.2	6.5-7.2	SURFACE	SURFACE	FILL	FILL	SURFACE
	SAMPLE DATE	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93
	ES ID	TP26-3.1	TP26-3.1RE	TP26-3.2	TP26-3.2RE	TP26-4.1	TP26-4.1RE	TP26-4.2	TP26-4.2RE	TP26-5.1
	LAB ID	204832	204832	204833	204833	204834	204834	204835	204835	204836
OUND	UNITS									
ICS										
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
e	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
e	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
e (total)	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
e	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
ane	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
de	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
hane	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
ne	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
ropene	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
hane	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
ane	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
opropene	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
tanone	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
oethane	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	12 U	NS	12 U	NS	12 U	NS	12 U	NS	12 U
	ug/Kg	NA	NS	NA	NS	NA	NS	NA	NS	NA
	ug/Kg	61 U R	61 UJ	61 U R	61 UJ	58 U R	58 UJ	55 U R	55 UJ	60 U R
	ug/Kg	61 U R	61 UJ	61 U R	61 UJ	58 U R	58 UJ	55 U R	55 UJ	60 U R
	ug/Kg	6.1 U R	6.1 UJ	6.1 U R	6.1 UJ	5.8 U R	5.8 UJ	5.5 U R	5.5 UJ	6 U R
	ug/Kg	6.1 U R	6.1 UJ	6.1 U R	6.1 UJ	5.8 U R	5.8 UJ	5.5 U R	5.5 UJ	6 U R
	ug/Kg	150 U R	150 UJ	150 U R	150 UJ	140 U R	140 UJ	140 U R	140 UJ	150 U R
	ug/Kg	6.1 U R	6.1 UJ	6.1 U R	6.1 UJ	5.8 U R	5.8 UJ	5.5 U R	5.5 UJ	6 U R
	ug/Kg	61 U R	61 UJ	61 U R	61 UJ	58 U R	58 UJ	55 U R	55 UJ	60 U R
	ug/Kg	31 U R	31 UJ	31 U R	31 UJ	29 U R	29 UJ	28 U R	28 UJ	30 U R
	ug/Kg	6100 U R	6100 UJ	6100 U R	6100 UJ	5800 U R	5600 UJ	5500 U R	5500 UJ	6000 U R
	ug/Kg	6100 U R	6100 UJ	13000 R	6100 UJ	5800 U R	5800 UJ	5500 U R	5500 UJ	6000 U R
S										
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
e	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
ne	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
itrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
itrotoluene	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U
	ug/Kg	130 U	NS	130 U	NS	130 U	NS	130 U	NS	130 U

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-1	0-1	6.5-7.2	6.5-7.2	SURFACE	SURFACE	FILL	FILL	SURFACE
	SAMPLE DATE	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93
	ES ID	TP26-3.1	TP26-3.1RE	TP26-3.2	TP26-3.2RE	TP26-4.1	TP26-4.1RE	TP26-4.2	TP26-4.2RE	TP26-5.1
	LAB ID	204832	204832	204833	204833	204834	204834	204835	204835	204836
OUND	UNITS									
IGANICS										
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ether	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
loropropane)	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
-propylamine	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
nol	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
y) methane	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ol	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
rzene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
hylphenol	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
rtadiene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
enol	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
enol	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
ene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
phenylether	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
ethylphenol	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
lamine	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
phenylether	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
e	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	980 U	NS	980 U	NS	930 U	NS	890 U	NS	950 U
	ug/Kg	400 U	NS	31 J	NS	31 J	NS	22 J	NS	68 J
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ate	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
	ug/Kg	30 J	NS	79 J	NS	71 J	NS	45 J	NS	150 J
	ug/Kg	29 J	NS	64 J	NS	66 J	NS	43 J	NS	110 J
ate	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
idine	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
e	ug/Kg	400 U	NS	37 J	NS	33 J	NS	22 J	NS	52 J
	ug/Kg	400 U	NS	43 J	NS	38 J	NS	25 J	NS	60 J
hthalate	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ate	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ene	ug/Kg	400 U	NS	29 J	NS	33 J	NS	21 J	NS	55 J
ene	ug/Kg	400 U	NS	39 J	NS	35 J	NS	24 J	NS	45 J
	ug/Kg	400 U	NS	36 J	NS	31 J	NS	20 J	NS	52 J
pyrene	ug/Kg	400 U	NS	24 J	NS	23 J	NS	370 U	NS	34 J
cene	ug/Kg	400 U	NS	400 U	NS	380 U	NS	370 U	NS	390 U
ne	ug/Kg	400 U	NS	21 J	NS	23 J	NS	370 U	NS	34 J

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	0-1	0-1	6.5-7.2	6.5-7.2	SURFACE	SURFACE	FILL	FILL	SURFACE
	SAMPLE DATE	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93	11/17/93
	ES ID	TP26-3.1	TP26-3.1RE	TP26-3.2	TP26-3.2RE	TP26-4.1	TP26-4.1RE	TP26-4.2	TP26-4.2RE	TP26-5.1
	LAB ID	204832	204832	204833	204833	204834	204834	204835	204835	204836
OUND	UNITS									
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
dane)	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
e	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	21 U	NS	21 U	NS	20 U	NS	19 U	NS	20 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	4 U	NS	4 U	NS	3.8 U	NS	3.7 U	NS	3.9 U
	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
e	ug/Kg	2.1 U	NS	2.1 U	NS	2 U	NS	1.9 U	NS	2 U
	ug/Kg	210 U	NS	210 U	NS	200 U	NS	190 U	NS	200 U
	ug/Kg	40 U	NS	40 U	NS	38 U	NS	37 U	NS	39 U
	ug/Kg	82 U	NS	82 U	NS	78 U	NS	74 U	NS	80 U
	ug/Kg	40 U	NS	40 U	NS	38 U	NS	37 U	NS	39 U
	ug/Kg	40 U	NS	40 U	NS	38 U	NS	37 U	NS	39 U
	ug/Kg	40 U	NS	40 U	NS	38 U	NS	37 U	NS	39 U
	ug/Kg	40 U	NS	40 U	NS	38 U	NS	37 U	NS	39 U
	ug/Kg	40 U	NS	40 U	NS	38 U	NS	37 U	NS	39 U
	mg/Kg	4680	NS	15600	NS	11000	NS	11200	NS	15000
	mg/Kg	6.4 UJ	NS	9.5 UJ	NS	7 UJ	NS	6.8 UJ	NS	12.4 UJ
	mg/Kg	5.8	NS	5.6	NS	9	NS	7.7	NS	5.6
	mg/Kg	48.5	NS	94.8	NS	58.1	NS	70.2	NS	94
	mg/Kg	0.28 J	NS	0.76 J	NS	0.49 J	NS	0.5 J	NS	0.73 J
	mg/Kg	0.4 U	NS	0.59 U	NS	0.44 U	NS	0.43 U	NS	0.77 U
	mg/Kg	227000	NS	7500	NS	14100	NS	16300	NS	5330
	mg/Kg	6.9	NS	22.1	NS	17.8	NS	18.4	NS	23.4
	mg/Kg	3 J	NS	10.6	NS	9.9	NS	12	NS	13.3
	mg/Kg	8.6	NS	18.6	NS	12.4	NS	13.5	NS	23
	mg/Kg	12000	NS	23800	NS	23200	NS	23200	NS	28500
	mg/Kg	17.4	NS	18.4	NS	10.3	NS	13.6	NS	19.5
	mg/Kg	120000	NS	4480	NS	5020	NS	5130	NS	5250
	mg/Kg	1740	NS	657	NS	421	NS	535	NS	694
	mg/Kg	0.18	NS	0.02 U	NS	0.03 U	NS	0.03 J	NS	0.06
	mg/Kg	7.8	NS	27.3	NS	26.7	NS	27.3	NS	34.9
	mg/Kg	867	NS	1850	NS	1090	NS	1220	NS	1740
	mg/Kg	0.57 J	NS	0.39 J	NS	0.37 J	NS	0.31 J	NS	0.32 J
	mg/Kg	0.81 UJ	NS	1.2 UJ	NS	0.89 UJ	NS	0.87 UJ	NS	1.6 UJ
	mg/Kg	247 J	NS	58.9 J	NS	56.4 J	NS	74.8 J	NS	46.8 J
	mg/Kg	0.23 U	NS	0.27 U	NS	0.25 U	NS	0.26 U	NS	0.18 U
	mg/Kg	17.1	NS	26.8	NS	16	NS	16.8	NS	24.9
	mg/Kg	130	NS	76	NS	80.7	NS	69.2	NS	91.5
	mg/Kg	0.59 U	NS	0.53 U	NS	0.58 U	NS	0.46 U	NS	0.54 U
S										
ogen	mg/Kg	1.8	NS	2.1	NS	0.08	NS	0.03	NS	0.55
	%W/W	81.5	NS	81.6	NS	85.6	NS	90.3	NS	83.6
ydrocarbons	mg/Kg	49	NS	80	NS	68	NS	76	NS	42
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	FILL	FILL	0-0.7	5.0+	0-0.7	5.0+	0-0.7	5.0+
	SAMPLE DATE	11/17/93	11/17/93	11/18/93	11/18/93	11/18/93	11/18/93	11/19/93	11/19/93
	ES ID	TP26-5.2	TP26-5.2RE	TP26-6.1	TP26-6.2	TP26-7.1	TP26-7.2	TP26-8.1	TP26-8.2
	LAB ID	204837	204837	205107	205108	205109	205110	205115	205116
OUND	UNITS								
ICS									
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
e	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ne	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ne	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ne (total)	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
e	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ane	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
de	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
hane	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ane	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ropene	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
hane	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
ane	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
opropene	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
tanone	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
oethane	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	12 U	NS	12 U	12 U	11 U	12 U	11 U	12 U
	ug/Kg	NA	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/Kg	59 U R	59 UJ	56 U	63 U	56 U	61 U	56 U	61 U
	ug/Kg	59 U R	59 UJ	56 U	63 U	56 U	61 U	56 U	61 U
	ug/Kg	5.9 U R	5.9 UJ	5.6 U	6.3 U	5.6 U	6.1 U	5.6 U	6.1 U
	ug/Kg	5.9 U R	5.9 UJ	5.6 U	6.3 U	5.6 U	6.1 U	5.6 U	6.1 U
	ug/Kg	140 U R	140 UJ	140 U	160 U	140 U	150 U	140 U	150 U
	ug/Kg	5.9 U R	5.9 UJ	5.6 U	6.3 U	5.6 U	6.1 U	5.6 U	6.1 U
	ug/Kg	59 U R	59 UJ	56 U	63 U	56 U	61 U	56 U	61 U
	ug/Kg	30 U R	30 UJ	28 U	32 U	28 U	31 U	28 U	31 U
	ug/Kg	5900 U R	5900 UJ	5600 U	6300 U	5600	6100 U	5600 U	6100 U
	ug/Kg	5900 U R	5900 UJ	5600 U	6300 U	7600	6100 U	5600 U	6100 U
S									
	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
ene	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
e	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
ne	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
itrotoluene	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	130 U	NS	NS	NS	NS	NS	NS	NS

BENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	FILL	FILL	0-0.7	5.0+	0-0.7	5.0+	0-0.7	5.0+
	SAMPLE DATE	11/17/93	11/17/93	11/18/93	11/18/93	11/18/93	11/18/93	11/19/93	11/19/93
	ES ID	TP26-5.2	TP26-5.2RE	TP26-6.1	TP26-6.2	TP26-7.1	TP26-7.2	TP26-8.1	TP26-8.2
	LAB ID	204837	204837	205107	205108	205109	205110	205115	205116
OUND	UNITS								
RGANICS									
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ether	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
loropropane)	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
-propylamine	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
nol	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
xy) methane	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ol	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
nzene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
thylphenol	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
entadiene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
enol	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
enol	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
lene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
e	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
	ug/Kg	390 U	NS	370 U	420 U	42 J	410 U	820 J	400 U
	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	240 J	400 U
e	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
-phenylether	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	370 U	420 U	25 J	410 U	600 J	400 U
	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
ethylphenol	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
ylamine	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
-phenylether	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ne	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
l	ug/Kg	940 U	NS	890 U	1000 U	910 U	990 U	6000 U	980 U
	ug/Kg	390 U	NS	95 J	420 U	370 J	410 U	7300	400 U
	ug/Kg	390 U	NS	370 U	420 U	61 J	410 U	1400 J	400 U
	ug/Kg	390 U	NS	370 U	420 U	40 J	410 U	1100 J	400 U
late	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
	ug/Kg	390 U	NS	250 J	62 J	770	410 U	13000	23 J
	ug/Kg	390 U	NS	220 J	61 J	610	410 U	8500	38 J
ate	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
zidine	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ne	ug/Kg	390 U	NS	100 J	34 J	280 J	410 U	4500	400 U
	ug/Kg	390 U	NS	120 J	37 J	320 J	410 U	4400	400 U
phthalate	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ate	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	2500 U	400 U
ene	ug/Kg	390 U	NS	94 J	28 J	300 J	410 U	4800	400 U
ene	ug/Kg	390 U	NS	120 J	34 J	270 J	410 U	3500	400 U
	ug/Kg	390 U	NS	110 J	38 J	270 J	410 U	3900	62 J
pyrene	ug/Kg	390 U	NS	65 J	420 U	190 J	410 U	2600	400 U
cene	ug/Kg	390 U	NS	370 U	420 U	370 U	410 U	1100 J	400 U
ene	ug/Kg	390 U	NS	56 J	420 U	160 J	410 U	910 J	77 J

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
	DEPTH (FEET)	FILL	FILL	0-0.7	5.0+	0-0.7	5.0+	0-0.7	5.0+
	SAMPLE DATE	11/17/93	11/17/93	11/18/93	11/18/93	11/18/93	11/18/93	11/19/93	11/19/93
	ES ID	TP26-5.2	TP26-5.2RE	TP26-6.1	TP26-6.2	TP26-7.1	TP26-7.2	TP26-8.1	TP26-8.2
	LAB ID	204837	204837	205107	205108	205109	205110	205115	205116
OUND	UNITS								
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
dane)	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
le	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	2.6 J	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	1.6 J	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	20 U	NS	19 U	21 U	19 U	21 U	19 U	21 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	3.9 U	NS	3.7 U	4.1 U	3.7 U	4 U	3.7 U	4 U
	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
ne	ug/Kg	2 U	NS	1.9 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U
	ug/Kg	200 U	NS	190 U	210 U	190 U	210 U	190 U	210 U
	ug/Kg	39 U	NS	37 U	41 U	37 U	40 U	37 U	40 U
	ug/Kg	79 U	NS	74 U	84 U	76 U	82 U	75 U	82 U
	ug/Kg	39 U	NS	37 U	41 U	37 U	40 U	37 U	40 U
	ug/Kg	39 U	NS	37 U	41 U	37 U	40 U	37 U	40 U
	ug/Kg	39 U	NS	37 U	41 U	37 U	40 U	37 U	40 U
	ug/Kg	39 U	NS	37 U	41 U	37 U	40 U	37 U	40 U
	ug/Kg	39 U	NS	37 U	41 U	37 U	40 U	37 U	40 U
	mg/Kg	15700	NS	8060	15900	8550	10000	13700	20500
	mg/Kg	8.8 UJ	NS	10.1 UJ	10.1 UJ	10.9 UJ	12.4 UJ	7 UJ	12.5 UJ
	mg/Kg	6.7	NS	6.6 J	9 J	8.1 J	7.6 J	6.4 J	5.4 J
	mg/Kg	107	NS	45.7	61.4	43.6	53	69.2	109
	mg/Kg	0.81 J	NS	0.46 J	0.77 J	0.44 J	0.48 J	0.59 J	0.96 J
	mg/Kg	0.55 U	NS	0.63 U	0.63 U	0.68 U	0.78 U	0.44 U	0.78 U
	mg/Kg	9500	NS	116000	6100	40600	79300	42100	4090
	mg/Kg	24.2	NS	12.1	25.1	13.2	14.3	21.7	26.3
	mg/Kg	13.2	NS	7.9 J	14.3	7.1 J	7.1 J	11.1	12.5
	mg/Kg	27.3	NS	14.5	29.1	17.1	13.1	21.3	21.8
	mg/Kg	32500	NS	17200	38100	18200	18600	27500	26900
	mg/Kg	23.8	NS	15	13.5	12	16.2	13.1	18
	mg/Kg	5850	NS	9180	6250	4760	26900	8260	4760
	mg/Kg	821	NS	487 R	507 R	596 R	573 R	594 R	1260 R
	mg/Kg	0.04 J	NS	0.02 J	0.03 J	0.04 J	0.05 J	0.04 J	0.07 J
	mg/Kg	34.2	NS	23	40.6	19.6	20.3	35.4	32.1
	mg/Kg	1330	NS	1050	1570	721 J	964 J	1290	2090
	mg/Kg	0.44 J	NS	0.82 J	0.29 J	0.41 J	0.33 J	0.57 J	0.59 J
	mg/Kg	1.1 UJ	NS	1.3 U	1.3 U	1.4 U	1.6 U	0.88 U	1.6 U
	mg/Kg	55.2 J	NS	101 J	52.6 J	90.7 J	117 J	117 J	64.2 J
	mg/Kg	0.25 U	NS	0.26 U	0.26 U	0.26 U	0.28 U	0.18 U	0.28 U
	mg/Kg	28.1	NS	13.1	25.4	12.3	15.4	19.6	31.1
	mg/Kg	96.9	NS	70.3	88.1	50.9	62.7	78	88.2
	mg/Kg	0.58 U	NS	0.53 U	0.54 U	0.54 U	0.52 U	0.54 U	0.55 U
ES									
rogen	mg/Kg	0.17	NS	0.55	0.53	1.08	0.43	0.12	0.52
	%W/W	84.9	NS	90.1	78.9	88.4	80.9	88.6	82.3
lydrocarbons	mg/Kg	42	NS	86	550	63	72	137	113
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER
	LOCATION	SEAD-26	SEAD-26	SEAD-26
	SAMPLE DATE	01/21/94	01/22/94	01/22/94
	ES ID	MW26-1	MW26-3	MW26-4
	LAB ID	209256,	209258	209260
OUND	UNITS	209945		
ICS				
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U
e (total)	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U
de	ug/L	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U
propene	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
opropene	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
tanone	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
oethane	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U
	ug/L	NA	NA	NA
	ug/L	1.2 U	1.1 U	1.2 U
	ug/L	1.2 U	1.1 U	1.2 U
	ug/L	0.12 U	0.11 U	0.12 U
	ug/L	0.12 U	0.11 U	0.12 U
	ug/L	2.7 U	2.5 U	2.7 U
	ug/L	0.12 U	0.11 U	0.12 U
	ug/L	1.2 U	1.1 U	1.2 U
	ug/L	0.58 U	0.53 U	0.58 U
	ug/L	120 U	110 U	120 U
	ug/L	120 U	110 U	120 U
S				
	ug/L	NS	NS	NS
	ug/L	NS	NS	NS
ene	ug/L	NS	NS	NS
e	ug/L	NS	NS	NS
	ug/L	NS	NS	NS
ne	ug/L	NS	NS	NS
nitrotoluene	ug/L	NS	NS	NS
nitrotoluene	ug/L	NS	NS	NS
	ug/L	NS	NS	NS
	ug/L	NS	NS	NS

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER
	LOCATION	SEAD-26	SEAD-26	SEAD-26
	SAMPLE DATE	01/21/94	01/22/94	01/22/94
	ES ID	MW26-1	MW26-3	MW26-4
	LAB ID	209256,	209258	209260
OUND	UNITS	209945		
RGANICS				
	ug/L	10 U	10 U	11 U
ether	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
ene	ug/L	10 U	10 U	11 U
ene	ug/L	10 U	10 U	11 U
ene	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
loropropane)	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
-propylamine	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
ol	ug/L	10 U	10 U	11 U
y) methane	ug/L	10 U	10 U	11 U
ol	ug/L	10 U	10 U	11 U
nzene	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
ne	ug/L	10 U	10 U	11 U
thylphenol	ug/L	10 U	10 U	11 U
ene	ug/L	10 U	10 U	11 U
entadiene	ug/L	10 U	10 U	11 U
enol	ug/L	10 U	10 U	11 U
enol	ug/L	25 U	26 U	27 U
ene	ug/L	10 U	10 U	11 U
	ug/L	25 U	26 U	27 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	25 U	26 U	27 U
	ug/L	10 U	10 U	11 U
	ug/L	25 U	26 U	27 U
	ug/L	25 U	26 U	27 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	0.6 J	10 U	0.5 J
phenyl ether	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	25 U	26 U	27 U
ethylphenol	ug/L	25 U	26 U	27 U
lamine	ug/L	10 U	10 U	11 U
phenyl ether	ug/L	10 U	10 U	11 U
ne	ug/L	10 U	10 U	11 U
l	ug/L	25 U	26 U	27 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
ate	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
ate	ug/L	10 U	10 U	11 U
zidine	ug/L	10 U	10 U	11 U
ne	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
phthalate	ug/L	10 U	10 U	11 U
ate	ug/L	10 U	10 U	11 U
cne	ug/L	10 U	10 U	11 U
ene	ug/L	10 U	10 U	11 U
	ug/L	10 U	10 U	11 U
pyrene	ug/L	10 U	10 U	11 U
cene	ug/L	10 U	10 U	11 U
ne	ug/L	10 U	10 U	11 U

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER
	LOCATION	SEAD-26	SEAD-26	SEAD-26
	SAMPLE DATE	01/21/94	01/22/94	01/22/94
	ES ID	MW26-1	MW26-3	MW26-4
	LAB ID	209256,	209258	209260
OUND	UNITS	209945		
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
dane)	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
le	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.62 UJ	0.54 UJ	0.55 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.12 UJ	0.11 UJ	0.11 UJ
	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
ne	ug/L	0.062 UJ	0.054 UJ	0.055 UJ
	ug/L	6.2 UJ	5.4 UJ	5.5 UJ
	ug/L	1.2 UJ	1.1 UJ	1.1 UJ
	ug/L	2.5 UJ	2.2 UJ	2.2 UJ
	ug/L	1.2 UJ	1.1 UJ	1.1 UJ
	ug/L	1.2 UJ	1.1 UJ	1.1 UJ
	ug/L	1.2 UJ	1.1 UJ	1.1 UJ
	ug/L	1.2 UJ	1.1 UJ	1.1 UJ
	ug/L	1.2 UJ	1.1 UJ	1.1 UJ
	ug/L	186 J	665	73300
	ug/L	21.5 U	21.6 U	21.5 U
	ug/L	0.8 U	1.3 J	32.6
	ug/L	31.9 J	83.8 J	399
	ug/L	0.4 U	0.4 U	3.4 J
	ug/L	2.1 U	2.1 U	2.1 U
	ug/L	115000	194000	199000
	ug/L	2.6 U	2.6 U	122
	ug/L	4.4 U	4.4 J	62.2
	ug/L	3.1 U	3.1 U	92
	ug/L	286	858	145000
	ug/L	0.5 U	0.61 J	32.9
	ug/L	16700	36500	60900
	ug/L	529	4280	2770
	ug/L	0.05 J	0.04 U	0.14 J
	ug/L	4 U	4.7 J	163
	ug/L	10200	4480 J	108000
	ug/L	0.7 U	0.85 J	2 J
	ug/L	4.2 U	4.2 U	4.2 U
	ug/L	30300	11600	14600
	ug/L	1.2 U	1.2 U	1.2 U
	ug/L	3.7 U	3.7 U	11C
	ug/L	26.7	13.9 J	355
	ug/L	5 U	5 U	5 U
S				
rogen	mg/L	1.18	0.04	3.6
ydrocarbons	mg/L	0.41 U	0.41	0.37 U
	mg/L	NS	NS	NS
	standard units	7.63	6.8	6.95
vity	umhos/cm	400	650	775
	NTU	4.8	325	5000

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER
	LOCATION	SEAD-26	SEAD-26
	SAMPLE DATE	11/01/93	11/01/93
	ES ID	SW26-1	SW200
	LAB ID	202939	202944
OUND	UNITS		SW26-1DUP
ICS			
	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
e	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
e	ug/L	10 U	NS
e	ug/L	10 U	NS
e (total)	ug/L	10 U	NS
	ug/L	10 U	NS
e	ug/L	10 U	NS
	ug/L	10 U	NS
ane	ug/L	10 U	NS
de	ug/L	10 U	NS
hane	ug/L	10 U	NS
ane	ug/L	10 U	NS
ropene	ug/L	10 U	NS
	ug/L	10 U	NS
hane	ug/L	10 U	NS
ans	ug/L	10 U	NS
	ug/L	10 U	NS
opropene	ug/L	10 U	NS
	ug/L	10 U	NS
tanone	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
oethane	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	10 U	NS
	ug/L	NA	NS
	ug/L	1.1 U	NS
	ug/L	2.9	NS
	ug/L	0.11 U	NS
	ug/L	0.11 U	NS
	ug/L	2.4 U	NS
	ug/L	0.11 U	NS
	ug/L	1.1 U	NS
	ug/L	0.52 U	NS
	ug/L	110 U	NS
	ug/L	110 U	NS
S			
	ug/L	0.13 U	NS
	ug/L	0.13 U	NS
ene	ug/L	0.13 U	NS
e	ug/L	0.13 U	NS
	ug/L	0.13 U	NS
ne	ug/L	0.13 U	NS
nitrotoluene	ug/L	0.13 U	NS
nitrotoluene	ug/L	0.13 U	NS
	ug/L	0.13 U	NS
	ug/L	3.5	NS

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER
	LOCATION	SEAD-26	SEAD-26
	SAMPLE DATE	11/01/93	11/01/93
	ES ID	SW26-1	SW200
	LAB ID	202939	202944
POUND	UNITS		SW26-1DUP
ORGANICS			
	ug/L	20 U	NS
yl) ether	ug/L	20 U	NS
	ug/L	20 U	NS
zene	ug/L	20 U	NS
zene	ug/L	20 U	NS
zene	ug/L	20 U	NS
	ug/L	20 U	NS
Chloropropane)	ug/L	20 U	NS
	ug/L	20 U	NS
n-propylamine	ug/L	20 U	NS
e	ug/L	20 U	NS
	ug/L	20 U	NS
	ug/L	20 U	NS
	ug/L	20 U	NS
enol	ug/L	20 U	NS
oxy) methane	ug/L	20 U	NS
ono!	ug/L	20 U	NS
enzene	ug/L	20 U	NS
	ug/L	20 U	NS
	ug/L	20 U	NS
diene	ug/L	20 U	NS
ethylphenol	ug/L	20 U	NS
alene	ug/L	20 U	NS
pentadiene	ug/L	20 U	NS
phenol	ug/L	20 U	NS
henol	ug/L	51 U	NS
alene	ug/L	20 U	NS
	ug/L	51 U	NS
te	ug/L	20 U	NS
	ug/L	20 U	NS
ne	ug/L	20 U	NS
	ug/L	51 U	NS
	ug/L	20 U	NS
ol	ug/L	51 U	NS
	ug/L	51 U	NS
	ug/L	20 U	NS
ne	ug/L	20 U	NS
	ug/L	20 U	NS
-phenylether	ug/L	20 U	NS
	ug/L	20 U	NS
	ug/L	51 U	NS
methylphenol	ug/L	51 U	NS
nylamine	ug/L	20 U	NS
l-phenylether	ug/L	20 U	NS
ene	ug/L	20 U	NS
nol	ug/L	51 U	NS
	ug/L	20 U	NS
	ug/L	20 U	NS
	ug/L	20 U	NS
alate	ug/L	20 U	NS
	ug/L	20 U	NS
	ug/L	20 U	NS
alate	ug/L	20 U	NS
nzidine	ug/L	20 U	NS
ene	ug/L	20 U	NS
	ug/L	20 U	NS
l)phthalate	ug/L	20 U	NS
alate	ug/L	20 U	NS
thene	ug/L	20 U	NS
thene	ug/L	20 U	NS
	ug/L	20 U	NS
d)pyrene	ug/L	20 U	NS
racene	ug/L	20 U	NS
ylene	ug/L	20 U	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER
	LOCATION	SEAD-26	SEAD-26
	SAMPLE DATE	11/01/93	11/01/93
	ES ID	SW26-1	SW200
	LAB ID	202939	202944
IPOUND	UNITS		SW26-1DUP
B			
	ug/L	0.05 UJ	NS
	ug/L	0.05 UJ	NS
	ug/L	0.05 UJ	NS
lindane)	ug/L	0.05 UJ	NS
	ug/L	0.05 UJ	NS
	ug/L	0.05 UJ	NS
lde	ug/L	0.05 UJ	NS
	ug/L	0.05 UJ	NS
	ug/L	0.1 UJ	NS
	ug/L	0.1 UJ	NS
	ug/L	0.1 UJ	NS
	ug/L	0.1 UJ	NS
	ug/L	0.1 UJ	NS
te	ug/L	0.1 UJ	NS
	ug/L	0.1 UJ	NS
	ug/L	0.5 UJ	NS
	ug/L	0.1 UJ	NS
	ug/L	0.072 J	NS
e	ug/L	0.05 UJ	NS
ane	ug/L	0.05 UJ	NS
	ug/L	5 UJ	NS
	ug/L	1 UJ	NS
	ug/L	2 UJ	NS
	ug/L	1 UJ	NS
	ug/L	1 UJ	NS
	ug/L	1 UJ	NS
	ug/L	1 UJ	NS
	ug/L	1 UJ	NS
	ug/L	44.5 U	NS
	ug/L	52.3 U	NS
	ug/L	7 J	NS
	ug/L	84.4 J	NS
	ug/L	0.3 U	NS
	ug/L	3.3 U	NS
	ug/L	61200	NS
	ug/L	2.5 U	NS
	ug/L	4.9 U	NS
	ug/L	3.7 U	NS
	ug/L	2940 J	NS
	ug/L	2.8 J	NS
	ug/L	4530 J	NS
	ug/L	55.5	NS
	ug/L	0.07 U	NS
	ug/L	6.3 J	NS
	ug/L	2510 J	NS
	ug/L	1.1 U	NS
	ug/L	6.6 UJ	NS
	ug/L	4670 J	NS
	ug/L	1.2 U	NS
	ug/L	3.3 U	NS
	ug/L	7.1 J	NS
	ug/L	6.5	NS
ES			
itrogen	mg/L	0.03	NS
Hydrocarbons	mg/L	4	4.17
	mg/L	NS	NS
	standard units	NA	NA
tivity	umhos/cm	NA	NA
	NTU	NA	NA

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.5	0-0.5
	SAMPLE DATE	11/01/93	11/01/93
	ES ID	SD26-1	SD200
	LAB ID	202995	203000
MPOUND	UNITS		SD26-1DUP
ANICS			
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
ide	ug/Kg	13 U	NS
	ug/Kg	26	NS
	ug/Kg	13 U	NS
ene	ug/Kg	13 U	NS
ane	ug/Kg	13 U	NS
ene (total)	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
ane	ug/Kg	13 U	NS
	ug/Kg	23	NS
thane	ug/Kg	13 U	NS
oride	ug/Kg	13 U	NS
ethane	ug/Kg	13 U	NS
pane	ug/Kg	13 U	NS
opropene	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
ethane	ug/Kg	13 U	NS
thane	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
loropropene	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
entanone	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
ne	ug/Kg	13 U	NS
loroethane	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	13 U	NS
	ug/Kg	NA	NS
	ug/Kg	60 U	NS
	ug/Kg	60 U	NS
	ug/Kg	21	NS
d)	ug/Kg	6 U	NS
	ug/Kg	150 U	NS
	ug/Kg	6 U	NS
	ug/Kg	60 U	NS
	ug/Kg	30 U	NS
	ug/Kg	6000 U	NS
	ug/Kg	6000 U	NS
CS			
	ug/Kg	72 J	NS
	ug/Kg	130 U	NS
rizene	ug/Kg	130 U	NS
ene	ug/Kg	130 U	NS
	ug/Kg	130 U	NS
uene	ug/Kg	130 U	NS
Dinitrotoluene	ug/Kg	130 U	NS
Dinitrotoluene	ug/Kg	130 U	NS
ne	ug/Kg	130 U	NS
ne	ug/Kg	660 J	NS

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.5	0-0.5
	SAMPLE DATE	11/01/93	11/01/93
	ES ID	SD26-1	SD200
	LAB ID	202995	203000
POUND	UNITS		SD26-1DUP
ORGANICS			
	ug/Kg	7800 U	NS
yl) ether	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
zene	ug/Kg	7800 U	NS
zene	ug/Kg	7800 U	NS
zene	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
Chloropropane)	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
n-propylamine	ug/Kg	7800 U	NS
e	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
enol	ug/Kg	7800 U	NS
oxy) methane	ug/Kg	7800 U	NS
nol	ug/Kg	7800 U	NS
enzene	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
diene	ug/Kg	7800 U	NS
ethylphenol	ug/Kg	7800 U	NS
alene	ug/Kg	420 J	NS
pentadiene	ug/Kg	7800 U	NS
henol	ug/Kg	7800 U	NS
henol	ug/Kg	19000 U	NS
alene	ug/Kg	7800 U	NS
	ug/Kg	19000 U	NS
te	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
ne	ug/Kg	7800 U	NS
	ug/Kg	19000 U	NS
	ug/Kg	7800 U	NS
ol	ug/Kg	19000 U	NS
	ug/Kg	19000 U	NS
	ug/Kg	7800 U	NS
ne	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
-phenylether	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
	ug/Kg	19000 U	NS
methylphenol	ug/Kg	19000 U	NS
nylamine	ug/Kg	7800 U	NS
l-phenylether	ug/Kg	7800 U	NS
ene	ug/Kg	7800 U	NS
nol	ug/Kg	19000 U	NS
	ug/Kg	420 J	NS
	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
alate	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
alate	ug/Kg	7800 U	NS
nzidine	ug/Kg	7800 U	NS
ene	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
l)phthalate	ug/Kg	7800 U	NS
alate	ug/Kg	7800 U	NS
thene	ug/Kg	7800 U	NS
thene	ug/Kg	7800 U	NS
	ug/Kg	7800 U	NS
d)pyrene	ug/Kg	7800 U	NS
racene	ug/Kg	7800 U	NS
ylene	ug/Kg	7800 U	NS

SENECA ARMY DEPOT
SEAD-26 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL
	LOCATION	SEAD-26	SEAD-26
	DEPTH (FEET)	0-0.5	0-0.5
	SAMPLE DATE	11/01/93	11/01/93
	ES ID	SD26-1	SD200
	LAB ID	202995	203000
POUND	UNITS		SD26-1DUP
3			
	ug/Kg	2 U	NS
	ug/Kg	2 U	NS
	ug/Kg	2 U	NS
ndane)	ug/Kg	2 U	NS
	ug/Kg	2 U	NS
	ug/Kg	2 U	NS
de	ug/Kg	6.4 J	NS
	ug/Kg	2 U	NS
	ug/Kg	3.8 J	NS
	ug/Kg	13 J	NS
	ug/Kg	6.5 J	NS
	ug/Kg	4.4 J	NS
	ug/Kg	3.9 U	NS
le	ug/Kg	3.9 U	NS
	ug/Kg	3.9 U	NS
	ug/Kg	20 U	NS
	ug/Kg	3.9 U	NS
	ug/Kg	3.9 U	NS
e	ug/Kg	2 U	NS
ane	ug/Kg	2 U	NS
	ug/Kg	200 U	NS
	ug/Kg	39 U	NS
	ug/Kg	60 U	NS
	ug/Kg	39 U	NS
	ug/Kg	39 U	NS
	ug/Kg	39 U	NS
	ug/Kg	39 U	NS
	ug/Kg	39 U	NS
	mg/Kg	1270	NS
	mg/Kg	9.6 U	NS
	mg/Kg	14.6	NS
	mg/Kg	26 J	NS
	mg/Kg	0.15 J	NS
	mg/Kg	0.6 U	NS
	mg/Kg	313000	NS
	mg/Kg	2.5	NS
	mg/Kg	2.5 J	NS
	mg/Kg	10.9	NS
	mg/Kg	3170	NS
	mg/Kg	8.3	NS
	mg/Kg	7270	NS
	mg/Kg	190	NS
	mg/Kg	0.01 J	NS
	mg/Kg	10.5	NS
	mg/Kg	784 J	NS
	mg/Kg	0.37 J	NS
	mg/Kg	1.2 U	NS
	mg/Kg	231 J	NS
	mg/Kg	2.3 U	NS
	mg/Kg	7.6 J	NS
	mg/Kg	34.3	NS
	mg/Kg	0.59 U	NS
ES			
trogen	mg/Kg	0.02	NS
	%W/W	NS	NS
Hydrocarbons	mg/Kg	20000	22000
	mg/Kg	NS	NS
	standard units	NS	NS

SEAD-45

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93
	ES ID	SS45-1	SS45-2	SS45-3	SS45-4	SS45-4RE	SS45-5	SS45-10	SS45-6	SS45-7
	LAB ID	202506	202507	202508	202509	202509	202512	202517 SS45-5DUP	202511	202514
POUND	UNITS									
NICS										
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
de	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ne	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ne	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ne (total)	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ne	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
hane	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ride	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ethane	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
pane	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
opropene	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ethane	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
hane	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
oropropene	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
ntanone	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
e	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
roethane	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	12 U	11 U	12 U	11 UJ	11 UJ	12 U	12 U	11 U	11 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	63 U	58 U	60 U	54 U	NS	59 U	60 U	55 U	57 U
	ug/Kg	63 U	58 U	60 U	54 U	NS	59 U	60 U	55 U	57 U
	ug/Kg	6.3 U	5.8 U	6 U	5.4 U	NS	5.9 U	6 U	5.5 U	5.7 U
	ug/Kg	6.3 U	5.8 U	6 U	5.4 U	NS	5.9 UJ	6 U	5.5 U	5.7 U
	ug/Kg	150 U	140 U	150 U	130 U	NS	150 U	150 U	130 U	140 U
	ug/Kg	6.3 U	5.8 U	6 U	5.4 U	NS	5.9 U	6 U	5.5 U	5.7 U
	ug/Kg	63 U	58 U	60 U	54 U	NS	59 U	60 U	55 U	57 U
	ug/Kg	32 U	29 U	30 U	27 U	NS	30 UJ	30 U	28 U	29 U
	ug/Kg	9400	6300	6000 U	5400 U	NS	5900 U	6000 U	5500 U	5700 U
	ug/Kg	6300 U	5800 U	6000 U	5400 U	NS	5900 U	6000 U	5500 U	5700 U
CS										
	ug/Kg	130 U	130 U	130 U	130 U	NS	120 J	140 J	130 U	130 UJ
	ug/Kg	130 U	130 U	100 J	82 J	NS	280 J	290 J	1800	83 J
zene	ug/Kg	130 U	130 U	100 J	100 U	NS	130 UJ	130 UJ	120 J	130 UJ
ne	ug/Kg	130 U	130 U	130 U	130 U	NS	130 UJ	130 UJ	130 U	130 UJ
	ug/Kg	130 U	130 U	130 U	90 J	NS	130 UJ	130 J	330	130 UJ
ene	ug/Kg	130 U	130 U	96 J	130 U	NS	84 J	80 J	190	130 UJ
initrotoluene	ug/Kg	130 U	130 U	130 U	130 U	NS	130 UJ	130 UJ	130 U	130 UJ
initrotoluene	ug/Kg	130 U	130 U	99 J	130 U	NS	280 J	270 J	590	130 UJ
e	ug/Kg	130 U	130 U	130 U	130 U	NS	130 UJ	130 UJ	130 U	130 UJ
e	ug/Kg	130 U	130 U	130 U	110 J	NS	150 J	140 J	160	130 UJ

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93
	ES ID	SS45-1	SS45-2	SS45-3	SS45-4	SS45-4RE	SS45-5	SS45-10	SS45-6	SS45-7
	LAB ID	202506	202507	202508	202509	202509	202512	202517	202511	202514
POUND	UNITS							SS45-5DUP		
RGANICS										
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
l) ether	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
zene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
zene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
zene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
hloropropane)	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
-propylamine	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
e	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	21 J	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
nol	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
xy) methane	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
nol	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
enzene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	21 J	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
ene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
thylphenol	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
lene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
entadiene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
henol	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
henol	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
lene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	30 J	390 U	360 U	380 U
e	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	41 J	380 U
	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
l	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
e	ug/Kg	410 U	380 U	400 U	360 U	NS	160 J	75 J	830	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
-phenyl ether	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
nethylphenol	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
ylamine	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	110 J	380 U
-phenyl ether	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
ne	ug/Kg	410 U	380 U	400 U	20 J	NS	43 J	41 J	55 J	380 U
ol	ug/Kg	1000 U	930 U	960 U	870 U	NS	950 U	950 U	870 U	920 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	38 J	31 J	25 J	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	18 J	390 U	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
Nate	ug/Kg	410 U	380 U	400 U	360 U	NS	110 J	31 J	900	380 U
	ug/Kg	410 U	380 U	400 U	23 J	NS	66 J	44 J	42 J	380 U
	ug/Kg	410 U	380 U	400 U	35 J	NS	100 J	76 J	79 J	380 U
late	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
zidine	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
ene	ug/Kg	410 U	380 U	400 U	360 U	NS	50 J	32 J	31 J	380 U
	ug/Kg	410 U	380 U	400 U	19 J	NS	68 J	55 J	52 J	380 U
phthalate	ug/Kg	410 U	380 U	700	430	NS	740	700	360 U	210 J
late	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
hene	ug/Kg	410 U	380 U	400 U	360 U	NS	55 J	33 J	36 J	380 U
hene	ug/Kg	410 U	380 U	400 U	360 U	NS	58 J	18 J	360 U	380 U
	ug/Kg	410 U	380 U	400 U	360 U	NS	62 J	44 J	45 J	380 U
pyrene	ug/Kg	410 U	380 U	400 U	360 U	NS	52 J	390 U	360 U	380 U
acene	ug/Kg	410 U	380 U	400 U	360 U	NS	390 U	390 U	360 U	380 U
ene	ug/Kg	410 U	380 U	400 U	360 U	NS	39 J	27 J	360 U	380 U

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
	SAMPLE DATE	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93	10/25/93
	ES ID	SS45-1	SS45-2	SS45-3	SS45-4	SS45-4RE	SS45-5	SS45-10	SS45-6	SS45-7
	LAB ID	202506	202507	202508	202509	202509	202512	202517	202511	202514
POUND	UNITS							SS45-5DUP		
	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
ndane)	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
de	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	1.8 J	2 U	1.8 U	1.9 U
	ug/Kg	4.1 U	3.8 U	4 U	2.5 J	NS	3.9 U	3.8 U	3.2 J	3.8 U
	ug/Kg	4.1 U	3.8 U	4 U	3.2 J	NS	3.9 U	3.4 J	4.2 J	3.8 U
	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.8 U	3.8 U	3.8 U
	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.8 U	3.8 U	3.8 U
	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.8 U	3.8 U	3.8 U
e	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.8 U	3.8 U	3.8 U
	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.4 J	2.8 J	3.8 U
	ug/Kg	21 U	20 U	20 U	18 U	NS	20 U	20 U	18 U	19 U
	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.8 U	3.8 U	3.8 U
	ug/Kg	4.1 U	3.8 U	4 U	3.8 U	NS	3.9 U	3.8 U	3.8 U	3.8 U
e	ug/Kg	2.1 U	2 U	2 U	1.5 J	NS	2 U	1.1 J	2 J	1.9 U
ne	ug/Kg	2.1 U	2 U	2 U	1.8 U	NS	2 U	2 U	1.8 U	1.9 U
	ug/Kg	210 U	200 U	200 U	180 U	NS	200 U	200 U	180 U	190 U
	ug/Kg	41 U	38 U	40 U	36 U	NS	39 U	38 U	36 U	38 U
	ug/Kg	84 U	78 U	81 U	73 U	NS	80 U	78 U	73 U	77 U
	ug/Kg	41 U	38 U	40 U	36 U	NS	39 U	38 U	36 U	38 U
	ug/Kg	41 U	38 U	40 U	36 U	NS	39 U	38 U	36 U	38 U
	ug/Kg	41 U	38 U	40 U	36 U	NS	39 U	38 U	36 U	38 U
	ug/Kg	41 U	38 U	40 U	36 U	NS	39 U	110 J	36 U	38 U
	ug/Kg	41 U	38 U	40 U	36 U	NS	39 U	38 U	36 U	38 U
	mg/Kg	17300	19400	18900	14900	NS	17600	15600	16300	18000
	mg/Kg	10 UJ	11.5 UJ	10.8 UJ	7.9 UJ	NS	9.3 UJ	10.1 UJ	8.5 UJ	9.7 UJ
	mg/Kg	5	5.5	5.1	5.1	NS	6.2	6.4	5.5	6.8
	mg/Kg	122	194	115	143	NS	161	151	160	163
	mg/Kg	0.7 J	0.77 J	0.63 J	0.63 J	NS	0.72 J	0.7 J	0.71 J	0.82 J
	mg/Kg	2.8	2.4	1.1	3.9	NS	9.5 J	9.5 J	8.8	1.6 J
	mg/Kg	8510	10300	21800	47000	NS	26000	47000	23400	6930
	mg/Kg	24.1	39.3	27.4	22.9	NS	26.9	23.8	24.2	24.8
	mg/Kg	10.8	24.3	14.1	12.4	NS	12.9	12.2	11.7	13.1
	mg/Kg	79.4	192	55.8	155	NS	538	405	491	69.8
	mg/Kg	25800	75700	30500	26700	NS	31400	30400	28100	29900
	mg/Kg	20.4	15.7	12	34.9	NS	63.8	54.9	63.2	21.9
	mg/Kg	5530	5950	6790	8420	NS	7320	7000	6440	5170
	mg/Kg	562	1150	627	530	NS	575	599	555	1050
	mg/Kg	0.43	0.63	0.17	0.43	NS	1.5 J	2.1 J	2.4	0.41 J
	mg/Kg	29.4 R	41.3 R	40.5 R	35.2 R	NS	40.5	36.4	34.2 R	35.1
	mg/Kg	2310	3140	2720	2100	NS	2140	1980	2060	2080
	mg/Kg	0.27 U	0.18 U	0.21 U	0.23 U	NS	0.18 UJ	0.22 UJ	0.18 U	0.22 UJ
	mg/Kg	1.3 UJ	1.5 UJ	2.1	1 UJ	NS	3.5 J	2.7 J	4.3	1.2 UJ
	mg/Kg	67.1 J	100 J	114 J	142 J	NS	110 J	104 J	112 J	136 J
	mg/Kg	0.29 UJ	0.2 UJ	0.23 UJ	0.25 UJ	NS	0.19 U	0.24 U	0.2 UJ	0.24 U
	mg/Kg	28.6	35.4	30.5	23.7	NS	27.9	25.8	27.3	32.5
	mg/Kg	148 R	122 R	115 R	208 R	NS	427	361	347 R	126
	mg/Kg	0.56 U	0.57 U	0.58 U	0.54 U	NS	0.72 U	0.67 U	0.52 U	0.66 U
ES										
ltrogen	mg/Kg	0.42	0.38	0.05	1.34	NS	0.13	0.06	11.8	6
	%W/W	80.4	85.7	82.8	91.9	NS	84	84.2	91.6	87.4
Hydrocarbons	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.2	3	3	3	3	3	3
	SAMPLE DATE	10/25/93	11/08/93	11/08/93	11/08/93	11/08/93	11/09/93	11/09/93
	ES ID	SS45-9	TP45-1	TP45-11	TP45-2	TP45-3	TP45-4	TP45-5
	LAB ID	202516	203646-203648	203656-203658	203650-203652	203654	204026-204028	204030-204032
POUND	UNITS			TP45-1DUP				
NICS								
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
le	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	31 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ne	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ne	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ne (total)	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ne	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
nane	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ride	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
thane	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ane	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
propene	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
thane	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
nane	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
ropropene	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
tanone	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	4 J	6 J	8 J	19	2 J	3 J
roethane	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	12 U	11 U	11 U	12 U	11 U	11 U	11 U
	ug/Kg	NS	NS	NS	NS	NS	NS	NS
	ug/Kg	59 U	56 U	55 U	58 U	60 U	69 U	56 U
	ug/Kg	59 U	56 U	55 U	58 U	60 U	69 U	56 U
	ug/Kg	5.9 U	5.6 U	5.5 U	5.8 U	6 U	6.9 U	5.6 U
	ug/Kg	5.9 U	5.6 U	5.5 U	5.8 U	6 U	6.9 U	5.6 U
	ug/Kg	150 U	140 U	140 U	140 U	150 U	170 U	140 U
	ug/Kg	5.9 U	5.6 U	5.5 U	5.8 U	6 U	6.9 U	5.6 U
	ug/Kg	59 U	56 U	55 U	58 U	60 U	69 U	56 U
	ug/Kg	30 U	28 U	28 U	29 U	30 U	35 U	28 U
	ug/Kg	5900 U	5600 U	5500 U	5800 U	6000 U	6900 U	5600 U
	ug/Kg	5900 U	5600 U	5500 U	5800 U	6000 U	6900 U	5600 U
S								
	ug/Kg	130 UJ	250 J	430 J	470 J	240 J	350	200
	ug/Kg	5600 J	2500 J	1600 J	2700 J	2500 J	4300	1300
zene	ug/Kg	130 UJ	150 J	170 J	190 J	130 UJ	180	140
ne	ug/Kg	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 U	130 U
	ug/Kg	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 U	180 J
ene	ug/Kg	1400 J	330 J	340 J	600 J	400 J	330	280
nitrotoluene	ug/Kg	270 J	130 UJ	130 UJ	130 UJ	130 UJ	130 U	130 U
nitrotoluene	ug/Kg	130 UJ	430 J	430 J	680 J	530 J	480	350
e	ug/Kg	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 U	130 U
e	ug/Kg	130 UJ	130 UJ	140 J	190 J	120 J	110 J	90 J

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.2	3	3	3	3	3	3
	SAMPLE DATE	10/25/93	11/08/93	11/08/93	11/08/93	11/08/93	11/09/93	11/09/93
	ES ID	SS45-9	TP45-1	TP45-11	TP45-2	TP45-3	TP45-4	TP45-5
	LAB ID	202516	203646-203646	203656-203658	203650-203652	203654	204026-204028	204030-204032
POUND	UNITS							
RGANICS								
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
) ether	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
loropropane)	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
-propylamine	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	72 J	68 J	1900 U	1100	41 J	36 J
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
nol	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
xy) methane	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
nol	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
nzene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	30 J	27 J	1900 U	24 J	30 J	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
thylphenol	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
lene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
entadiene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
enol	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
enol	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
lene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	19 J	17 J	1900 U	400 U	460 U	370 U
e	ug/Kg	390 U	370 U	360 U	700 J	400 U	460 U	370 U
	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
l	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
e	ug/Kg	390 U	100 J	190 J	14000	84 J	59 J	230 J
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	35 J	370 U
-phenylether	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
ethylphenol	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
ylamine	ug/Kg	390 U	370 U	30 J	1600 J	20 J	460 U	25 J
-phenylether	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ne	ug/Kg	30 J	62 J	54 J	1900 U	52 J	46 J	42 J
l	ug/Kg	940 U	890 U	880 U	4600 U	960 U	1100 U	900 U
	ug/Kg	18 J	46 J	38 J	1900 U	36 J	44 J	34 J
	ug/Kg	390 U	17 J	360 U	1900 U	400 U	460 U	370 U
	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
late	ug/Kg	390 U	35 J	170 J	6600	27 J	75 J	230 J
	ug/Kg	30 J	59 J	50 J	1900 U	52 J	68 J	58 J
	ug/Kg	36 J	110 J	98 J	100 J	90 J	110 J	97 J
ate	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
zidine	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ne	ug/Kg	390 U	32 J	30 J	1900 U	22 J	36 J	32 J
	ug/Kg	27 J	46 J	44 J	1900 U	37 J	51 J	47 J
phthalate	ug/Kg	350 J	65 J	50 J	1900 U	400 U	460 U	370 U
ate	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ene	ug/Kg	20 J	38 J	36 J	1900 U	24 J	39 J	42 J
ene	ug/Kg	390 U	28 J	26 J	1900 U	21 J	34 J	23 J
	ug/Kg	390 U	46 J	41 J	1900 U	28 J	45 J	42 J
pyrene	ug/Kg	390 U	37 J	360 U	1900 U	400 U	29 J	26 J
cene	ug/Kg	390 U	370 U	360 U	1900 U	400 U	460 U	370 U
ene	ug/Kg	390 U	66 J	58 J	1900 U	34 J	53 J	45 J

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SOIL ANALYSIS RESULTS

	MATRIX	SOIL		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45		SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.2		3	3	3	3	3	3
	SAMPLE DATE	10/25/93		11/08/93	11/08/93	11/08/93	11/08/93	11/09/93	11/09/93
	ES ID	SS45-9		TP45-1	TP45-11	TP45-2	TP45-3	TP45-4	TP45-5
	LAB ID	202516		203646-203648	203656-203658	203650-203652	203654	204026-204028	204030-204032
POUND	UNITS								
	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
ndane)	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
de	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
	ug/Kg	1 J		1.9 J	2.2 J	1.9 J	1.6 J	2.4 U	1.9 U
	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	2.4 J	3.7 U
	ug/Kg	3.3 J		3.7 U	3.6 U	3.8 U	4 U	3.2 J	1.9 J
	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	4.6 U	3.7 U
	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	4.6 U	3.7 U
	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	4.6 U	3.7 U
e	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	4.6 U	3.7 U
	ug/Kg	3.8 U	R	3.7 U	2.3 J	3.8 U	2.9 J	4.6 U	3.7 U
	ug/Kg	20 U	R	19 U	19 U	20 U	20 U	24 U	19 U
	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	4.6 U	3.7 U
	ug/Kg	3.8 U	R	3.7 U	3.6 U	3.8 U	4 U	4.6 U	3.7 U
	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
ne	ug/Kg	2 U	R	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U
	ug/Kg	200 U	R	190 U	190 U	200 U	200 U	240 U	190 U
	ug/Kg	38 U	R	37 U	36 U	38 U	40 U	46 U	37 U
	ug/Kg	78 U	R	74 U	74 U	77 U	81 U	93 U	75 U
	ug/Kg	38 U	R	37 U	36 U	38 U	40 U	46 U	37 U
	ug/Kg	38 U	R	37 U	36 U	38 U	40 U	46 U	37 U
	ug/Kg	38 U	R	37 U	36 U	38 U	40 U	46 U	37 U
	ug/Kg	38 U	R	37 U	36 U	38 U	40 U	46 U	37 U
	ug/Kg	38 U	R	37 U	36 U	38 U	40 U	46 U	37 U
	mg/Kg	17800		20100	16500	20800	22800	20600	17300
	mg/Kg	9.4 UJ		9.7 UJ	7.6 UJ	12.1 UJ	12.4 UJ	10.2 U	9.2 U
	mg/Kg	6.1		6.8	6.3	7.1	8.2	6 J	5.1 J
	mg/Kg	202		208	177	201	248	216	174
	mg/Kg	0.79 J		0.9 J	0.8	0.91 J	1.1 J	0.94 J	0.8 J
	mg/Kg	5.5 J		10.4 J	9.6 J	9.5 J	13.1 J	10.9 R	7.4 R
	mg/Kg	22600		42700	31500	26400	32500	36400	32100
	mg/Kg	27.4		31.3	25.7	30.1	35.5	32.1	27.6
	mg/Kg	15		13.2	13.2	12.8	16.9	15.3	12.1
	mg/Kg	267		722	555	561	791	1240 J	449 J
	mg/Kg	32500		35700	31900	31500	41300	37600	31600
	mg/Kg	77.7		54.1	73.3	69.4	87.8	74.7	61.3
	mg/Kg	7110		7910	7780	7800	9270	8940	7570
	mg/Kg	912		1380	613	605	827	726	600
	mg/Kg	1.9 J		3.1 J	1.4 J	3.1 J	4 J	3.8	4.3
	mg/Kg	42.5		41.8	39.1	40.5	51	46.3	39.2
	mg/Kg	2260		3040	1960	3280	3010	2400	1950
	mg/Kg	0.24 UJ		0.23 UJ	0.15 UJ	0.16 UJ	0.23 UJ	0.27 UJ	0.2 UJ
	mg/Kg	1.3 J		3.2 J	4.7 J	5 J	6.6 J	26.2 J	3.9 J
	mg/Kg	93.4 J		141 J	105 J	116 J	135 J	136 J	122 J
	mg/Kg	0.28 U		0.25 U	0.16 U	0.17 U	0.25 U	0.29 UJ	0.22 UJ
	mg/Kg	28.9		32.4	26.7	34.4	38	32.6	27.3
	mg/Kg	383		345	360	390	538	557 J	333 J
	mg/Kg	0.7 U		0.7	0.54 U	0.55 U	0.55 U	0.62	0.51 U
ES									
trogen	mg/Kg	0.55		27	28	19.5	18.8	9.8	13.3
	%W/W	85.2		90.3	90.7	86.7	82.9	72.2	89.3
Hydrocarbons	mg/Kg	NS		NS	NS	NS	NS	NS	NS
	mg/Kg	NS		NS	NS	NS	NS	NS	NS
	standard units	NS		NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45
	SAMPLE DATE	02/03/94	02/03/94	01/26/94	02/01/94	02/01/94	02/02/94	02/01/94	02/02/94	02/02/94
	ES ID	MW45-2	MW45-3	MW45-4	MW1	MW1RE	MW2	MW3	MW4	MW5
	LAB ID	210258	210259	209413	210059	210059	210193	210060	210194	210195
POUND	UNITS									
NICS										
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
de	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ene (total)	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
thane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ride	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ethane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
pane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
opropene	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ethane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
thane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
oropropene	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
ntanone	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	1 J	NS	10 U	10 U	10 U	10 U
oroethane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U
	ug/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	NS	1.2 U	1.1 U	1.2 U	1.1 U
	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	NS	1.2 U	1.1 U	1.2 U	1.1 U
	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	NS	0.12 U	0.11 U	0.12 U	0.11 U
)	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	NS	0.12 U	0.11 U	0.12 U	0.11 U
	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	NS	2.7 U	2.4 U	2.7 U	2.5 U
	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	NS	0.12 U	0.11 U	0.12 U	0.11 U
	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	NS	1.2 U	1.1 U	1.2 U	1.1 U
	ug/L	0.54 U	0.53 U	0.54 U	0.53 U	NS	0.58 U	0.52 U	0.59 U	0.55 U
	ug/L	110 U	110 U	110 U	110 U	NS	120 U	110 U	120 U	110 U
	ug/L	110 U	110 U	110 U	110 U	NS	120 U	110 U	120 U	110 U
CS										
	ug/L	0.13 UJ	0.13 U	0.13 U	0.5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
nzene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
ene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.067 J
	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
uene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Dinitrotoluene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Dinitrotoluene	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
ne	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
ne	ug/L	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED
NR stands for NOT RECORDED

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/
SAMPLE DATE	02/03/94	02/03/94	01/26/94	02/01/94	02/01/94	02/02/94	02/01/94	02/02/94	02/02/94
ES ID	MW45-2	MW45-3	MW45-4	MW1	MW1RE	MW2	MW3	MW4	MW5
LAB ID	210256	210259	209413	210059	210059	210193	210060	210194	210195
UNITS									
POUND									
HGANICS									
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
l) ether ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
zene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
zene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
zene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
hloropropane) ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
-propylamine ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
e ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
nol ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
oxy) methane ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
nol ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
enzene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
iene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ethylphenol ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
alene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
pentadiene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
nenol ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
nenol ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
zlene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
e ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
e ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
l ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ne ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
-phenyl ether ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
methyl phenol ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
yl amine ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
-phenyl ether ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ne ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
l ug/L	27 U	27 U	27 U	25 U	NS	28 U	25 U	26 U	26 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
late ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
late ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
nzidine ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
)phthalate ug/L	23	11 U	11 U	33	NS	11 U	12	11	10 U
alate ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
hene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
hene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
)pyrene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
acene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U
ene ug/L	11 U	11 U	11 U	10 U	NS	11 U	10 U	10 U	10 U

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
GROUNDWATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/OD	SEAD-45/
	SAMPLE DATE	02/03/94	02/03/94	01/26/94	02/01/94	02/01/94	02/02/94	02/01/94	02/02/94	02/02/94
	ES ID	MW45-2	MW45-3	MW45-4	MW1	MW1RE	MW2	MW3	MW4	MW5
	LAB ID	210258	210259	209413	210059	210059	210193	210060	210194	210195
POUND	UNITS									
	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
ndane)	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
de	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
e	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.56 U	0.59 U	0.56 UJ	0.68 U	NS	0.57 U	0.52 U	0.59 U	0.54 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
	ug/L	0.11 U	0.12 U	0.11 UJ	0.14 U	NS	0.11 U	0.1 U	0.12 U	0.11 U
e	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
ne	ug/L	0.056 U	0.059 U	0.056 UJ	0.068 U	NS	0.057 U	0.052 U	0.059 U	0.054 U
	ug/L	5.6 U	5.9 U	5.6 UJ	6.8 U	NS	5.7 U	5.2 U	5.9 U	5.4 U
	ug/L	1.1 U	1.2 U	1.1 UJ	1.4 U	NS	1.1 U	1 U	1.2 U	1.1 U
	ug/L	2.2 U	2.4 U	2.2 UJ	2.7 U	NS	2.3 U	2.1 U	2.4 U	2.2 U
	ug/L	1.1 U	1.2 U	1.1 UJ	1.4 U	NS	1.1 U	1 U	1.2 U	1.1 U
	ug/L	1.1 U	1.2 U	1.1 UJ	1.4 U	NS	1.1 U	1 U	1.2 U	1.1 U
	ug/L	1.1 U	1.2 U	1.1 UJ	1.4 U	NS	1.1 U	1 U	1.2 U	1.1 U
	ug/L	1.1 U	1.2 U	1.1 UJ	1.4 U	NS	1.1 U	1 U	1.2 U	1.1 U
	ug/L	1.1 U	1.2 U	1.1 UJ	1.4 U	NS	1.1 U	1 U	1.2 U	1.1 U
	ug/L	42 U	7510	63300	124 J	NS	828	83.5 J	17700	821
	ug/L	26.8 J	36.7 J	21.6 UJ	24.3 J	NS	23.1 J	52.1 J	49.6 J	28.1 J
	ug/L	1.4 U	1.8 J	9.5 J	1.4 U	NS	1.4 U	1.4 U	1.7 J	1.4 U
	ug/L	27.2 J	62.1 J	751	56.5 J	NS	50.8 J	25.5 J	195 J	82.8 J
	ug/L	0.4 U	0.52 J	5	0.4 U	NS	0.4 U	0.4 U	0.87 J	0.4 U
	ug/L	2.9 J	3.2 J	2.1 U	2.2 J	NS	2.1 U	2.1 U	3.8 J	2.1 U
	ug/L	232000	211000	660000	118000	NS	94600	91700	152000	123000
	ug/L	2.6 U	16.1	106	2.6 U	NS	4.1 J	2.6 U	28.9	2.6 J
	ug/L	4.4 U	14.6 J	94.4	4.4 U	NS	5.3 J	4.4 U	11 J	4.4 U
	ug/L	3.1 U	11.9 J	123	3.1 U	NS	7.2 J	3.9 J	79.2	3.1 U
	ug/L	48.5 J	14100	113000	207	NS	940	109	27500	1220
	ug/L	0.71 J	9.5	75.6	0.71 J	NS	0.66 J	0.73 J	15.7	1.1 J
	ug/L	57800	77900	73500	26400	NS	15700	15800	31600	27700
	ug/L	1400	625	4640	4.4 J	NS	23.7	2.9 J	384	55
	ug/L	0.04 U	0.08 J	0.29	0.04 U	NS	0.04 U	0.04 U	1.8	0.04 U
	ug/L	10.2 J	30.7 J	209	4 U	NS	4 U	4 U	43.9	4 U
	ug/L	9660	18700	13900	910 U	NS	1050 J	904 U	6540	907 U
	ug/L	2.5 J	1.9 J	0.7 U	0.99 J	NS	0.7 U	0.7 U	1.9 J	1.5 J
	ug/L	4.2 U	4.2 U	4.2 U	4.2 U	NS	4.2 U	4.2 U	4.6 J	4.2 U
	ug/L	40000	18600	17300	10000	NS	13100	3400 J	15800	16100
	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	NS	1.2 U	1.2 U	1.2 U	1.2 U
	ug/L	3.7 U	11.7 J	93.1	3.7 U	NS	3.7 U	3.7 U	29.7 J	3.7 U
	ug/L	31.6	81.1	321	15 3 J	NS	23	14 J	164	24.5
	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U
ES										
trogen	mg/L	0.41	0.12	0.02	1.23	NS	0.06	0.15	0.13	8.7
Hydrocarbons	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
	standard units	NR	7.5	7.31	7.5	NS	7.49	7.53	7.43	7.54
tance	umhos/cm	NR	750	600	455	NS	315	340	450	465
	NTU	0.4	368	9860	9.4	NS	4.4	3.4	193	107

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

MATRIX	WATER	WATER	WATER	WATER
LOCATION	SEAD-45	SEAD--45	SEAD-45	SEAD-45
SAMPLE DATE	11/01/93	11/01/93	11/01/93	11/01/93
ES ID	SW45-1	SW45-2	SW45-3	SW45-4
LAB ID	202940	202941	202942	202943
POUND	UNITS			
NICS				
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
de	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ene	ug/L	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U
ene (total)	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
thane	ug/L	10 U	10 U	10 U	10 U
ride	ug/L	10 U	10 U	10 U	10 U
ethane	ug/L	10 U	10 U	10 U	10 U
pane	ug/L	10 U	10 U	10 U	10 U
opropene	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ethane	ug/L	10 U	10 U	10 U	10 U
thane	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
oropropene	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
ntanone	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U
oroethane	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U
	ug/L	NS	NS	NS	NS
	ug/L	1.2 U	1.2 U	1.1 U	1.1 U
	ug/L	1.2 U	1.2 U	1.1 U	1.1 U
	ug/L	0.12 U	0.12 U	0.11 U	0.11 U
)	ug/L	0.12 U	0.12 U	0.11 U	0.11 U
	ug/L	2.6 U	2.6 U	2.5 U	2.4 U
	ug/L	0.12 U	0.12 U	0.11 U	0.11 U
	ug/L	1.2 U	1.2 U	1.1 U	1.1 U
	ug/L	0.56 U	0.56 U	0.54 U	0.52 U
	ug/L	120 U	120 U	110 U	110 U
	ug/L	120 U	120 U	110 U	110 U
CS					
	ug/L	0.13 U	0.45	0.49	0.13 U
	ug/L	0.24 J	2	0.13 U	0.13 U
nzene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
ene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
uene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
Dinitrotoluene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
Dinitrotoluene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
ne	ug/L	0.13 U	0.13 U	0.13 U	0.13 U
ne	ug/L	0.13 U	0.13 U	0.13 U	0.13 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	SAMPLE DATE	11/01/93	11/01/93	11/01/93	11/01/93
	ES ID	SW45-1	SW45-2	SW45-3	SW45-4
	LAB ID	202940	202941	202942	202943
MPOUND	UNITS				
ORGANICS					
	ug/L	10 U	11 U	11 U	10 U
yl) ether	ug/L	10 U	11 U	11 U	10 U
l	ug/L	10 U	11 U	11 U	10 U
nzene	ug/L	10 U	11 U	11 U	10 U
nzene	ug/L	10 U	11 U	11 U	10 U
nzene	ug/L	10 U	11 U	11 U	10 U
l	ug/L	10 U	11 U	11 U	10 U
Chloropropane)	ug/L	10 U	11 U	11 U	10 U
l	ug/L	10 U	11 U	11 U	10 U
n-propylamine	ug/L	10 U	11 U	11 U	10 U
ne	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
enol	ug/L	10 U	11 U	11 U	10 U
oxy) methane	ug/L	10 U	11 U	11 U	10 U
enol	ug/L	10 U	11 U	11 U	10 U
benzene	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
dlene	ug/L	10 U	11 U	11 U	10 U
methylphenol	ug/L	10 U	11 U	11 U	10 U
halene	ug/L	10 U	11 U	11 U	10 U
opentadiene	ug/L	10 U	11 U	11 U	10 U
phenol	ug/L	10 U	11 U	11 U	10 U
phenol	ug/L	26 U	27 U	26 U	25 U
halene	ug/L	10 U	11 U	11 U	10 U
	ug/L	26 U	27 U	26 U	25 U
te	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
ne	ug/L	10 U	11 U	11 U	10 U
	ug/L	26 U	27 U	26 U	25 U
	ug/L	10 U	11 U	11 U	10 U
nol	ug/L	26 U	27 U	26 U	25 U
	ug/L	26 U	27 U	26 U	25 U
	ug/L	10 U	11 U	11 U	10 U
ne	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
l-phenylether	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	26 U	27 U	26 U	25 U
-methylphenol	ug/L	26 U	27 U	26 U	25 U
nylamine	ug/L	10 U	11 U	11 U	10 U
l-phenylether	ug/L	10 U	11 U	11 U	10 U
ene	ug/L	10 U	11 U	11 U	10 U
nol	ug/L	26 U	27 U	26 U	25 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
alate	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
alate	ug/L	10 U	11 U	11 U	10 U
nzidine	ug/L	10 U	11 U	11 U	10 U
cene	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
l)phthalate	ug/L	10 U	11 U	11 U	10 U
alate	ug/L	10 U	11 U	11 U	10 U
thene	ug/L	10 U	11 U	11 U	10 U
thene	ug/L	10 U	11 U	11 U	10 U
	ug/L	10 U	11 U	11 U	10 U
d)pyrene	ug/L	10 U	11 U	11 U	10 U
racene	ug/L	10 U	11 U	11 U	10 U
ylene	ug/L	10 U	11 U	11 U	10 U

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SURFACE WATER ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	SAMPLE DATE	11/01/93	11/01/93	11/01/93	11/01/93
	ES ID	SW45-1	SW45-2	SW45-3	SW45-4
	LAB ID	202940	202941	202942	202943
MPOUND	UNITS				
B					
	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
Jndane)	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
ide	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
te	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.52 U	0.52 U	0.58 U	0.58 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
	ug/L	0.1 U	0.1 U	0.12 U	0.12 U
e	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
ane	ug/L	0.052 U	0.052 U	0.058 U	0.058 U
	ug/L	5.2 U	5.2 U	5.8 U	5.8 U
	ug/L	1 U	1 U	1.2 U	1.2 U
	ug/L	2.1 U	2.1 U	2.3 U	2.3 U
	ug/L	1 U	1 U	1.2 U	1.2 U
	ug/L	1 U	1 U	1.2 U	1.2 U
	ug/L	1 U	1 U	1.2 U	1.2 U
	ug/L	1 U	1 U	1.2 U	1.2 U
	ug/L	1 U	1 U	1.2 U	1.2 U
	ug/L	29000	4370	868	37500
	ug/L	52.6 U	52.4 U	52.8 U	52.5 U
	ug/L	1.2 U	1.2 U	1.2 U	2.3 J
	ug/L	204	82.5 J	33.5 J	439
	ug/L	1.3 J	0.3 U	0.3 U	1.5 J
	ug/L	3.3 U	3.3 U	3.3 U	11.2
	ug/L	194000	38500	33800	105000
	ug/L	45.4	3.4 J	2.5 U	50.8
	ug/L	15.2 J	4.9 U	4.9 U	18.2 J
	ug/L	203	119	24.8 J	612
	ug/L	47700 J	5920 J	1270 J	60400 J
	ug/L	27.2	10.9	1.9 J	88.7
	ug/L	24300	4880 J	3280 J	19300
	ug/L	841	56.7	21.1	1250
	ug/L	0.32	0.5	0.18 J	3
	ug/L	72.7	8.1 J	4.2 J	74.2
	ug/L	6650	5020	1530 J	9670
	ug/L	5.5 U	1.1 U	1.1 U	5.5 U
	ug/L	6.7 UJ	6.6 UJ	6.7 UJ	6.7 UJ
	ug/L	2810 J	899 J	1080 J	4340 J
	ug/L	1.2 U	1.2 U	1.2 U	1.2 U
	ug/L	45.9 J	6.1 J	3.3 U	54.9
	ug/L	226	98.9	23.3	883
	ug/L	8.3 U	8.3 U	8.3 U	47.7
ES					
itrogen	mg/L	0.01	0.03	1.06	0.04
Hydrocarbons	mg/L	NS	NS	NS	NS
	mg/L	NS	NS	NS	NS
	standard units	8.26	8.14	8.06	6.75
tance	umhos/cm	40	110	100	175
	NTU	NS	NS	NS	NS

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5
	SAMPLE DATE	11/01/93	11/01/93	11/01/93	11/01/93
	ES ID	SD45-1	SD45-2	SD45-3	SD45-4
	LAB ID	202996	202997	202998	202999
MPOUND	UNITS				
ANICS					
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
ride	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
nene	ug/Kg	13 U	14 U	15 U	13 U
nane	ug/Kg	13 U	14 U	15 U	13 U
nene (total)	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
nane	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
ethane	ug/Kg	13 U	14 U	15 U	13 U
oride	ug/Kg	13 U	14 U	15 U	13 U
nethane	ug/Kg	13 U	14 U	15 U	13 U
opane	ug/Kg	13 U	14 U	15 U	13 U
ropropene	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
nethane	ug/Kg	13 U	14 U	15 U	13 U
ethane	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
loropropene	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
ertanone	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
ne	ug/Kg	13 U	14 U	15 U	13 U
loroethane	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	13 U	14 U	15 U	13 U
	ug/Kg	NS	NS	NS	NS
	ug/Kg	64 U	80 U	76 U	68 U
	ug/Kg	64 U	80 U	76 U	68 U
	ug/Kg	6.4 U	8 U	7.6 U	6.8 U
x)	ug/Kg	6.4 U	8 U	7.6 U	6.8 U
	ug/Kg	160 U	200 U	190 U	170 U
	ug/Kg	6.4 U	8 U	7.6 U	6.8 U
	ug/Kg	64 U	80 U	76 U	68 U
	ug/Kg	32 U	40 U	38 U	34 U
	ug/Kg	6400 U	8000 U	7600 U	6800 U
	ug/Kg	6400 U	8000 U	7600 U	6800 U
ICS					
	ug/Kg	130 U	130 U	130 U	130 U
	ug/Kg	130 U	210	130 U	130 U
nzene	ug/Kg	130 U	130 U	130 U	130 U
ene	ug/Kg	130 U	130 U	130 U	130 U
	ug/Kg	130 U	140 J	130 U	130 U
luene	ug/Kg	130 U	120 J	130 U	130 U
Dinitrotoluene	ug/Kg	130 U	130 U	130 U	130 U
Dinitrotoluene	ug/Kg	130 U	260	130 U	130 U
ne	ug/Kg	130 U	130 U	130 U	130 U
ne	ug/Kg	130 U	83 J	130 U	130 U

NOTES:
NS stands for NOT SAMPLED

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5
	SAMPLE DATE	11/01/93	11/01/93	11/01/93	11/01/93
	ES ID	SD45-1	SD45-2	SD45-3	SD45-4
	LAB ID	202996	202997	202998	202999
IPOUND	UNITS				
ORGANICS					
	ug/Kg	420 U	530 U	500 U	440 U
yl) ether	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
zene	ug/Kg	420 U	530 U	500 U	440 U
zene	ug/Kg	420 U	530 U	500 U	440 U
zene	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
Chloropropane)	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
n-propylamine	ug/Kg	420 U	530 U	500 U	440 U
ne	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
enol	ug/Kg	420 U	530 U	500 U	440 U
oxy) methane	ug/Kg	420 U	530 U	500 U	440 U
nol	ug/Kg	420 U	530 U	500 U	440 U
enzene	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	24 J
	ug/Kg	420 U	530 U	500 U	440 U
diene	ug/Kg	420 U	530 U	500 U	440 U
ethylphenol	ug/Kg	420 U	530 U	500 U	440 U
alene	ug/Kg	420 U	530 U	500 U	440 U
pentadiene	ug/Kg	420 U	530 U	500 U	440 U
henol	ug/Kg	420 U	530 U	500 U	440 U
henol	ug/Kg	1000 U	1300 U	1200 U	1100 U
alene	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	1000 U	1300 U	1200 U	1100 U
te	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
ne	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	1000 U	1300 U	1200 U	1100 U
	ug/Kg	420 U	530 U	500 U	440 U
ol	ug/Kg	1000 U	1300 U	1200 U	1100 U
	ug/Kg	1000 U	1300 U	1200 U	1100 U
	ug/Kg	420 U	530 U	500 U	440 U
ne	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
l-phenylether	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	1000 U	1300 U	1200 U	1100 U
methylphenol	ug/Kg	1000 U	1300 U	1200 U	1100 U
nylamine	ug/Kg	420 U	530 U	500 U	440 U
l-phenylether	ug/Kg	420 U	530 U	500 U	440 U
ene	ug/Kg	420 U	40 J	500 U	30 J
nol	ug/Kg	1000 U	1300 U	1200 U	1100 U
	ug/Kg	420 U	34 J	24 J	25 J
	ug/Kg	420 U	530 U	500 U	440 U
	ug/Kg	420 U	530 U	500 U	440 U
alate	ug/Kg	420 U	25 J	500 U	440 U
	ug/Kg	420 U	60 J	47 J	31 J
	ug/Kg	420 U	110 J	59 J	61 J
alate	ug/Kg	420 U	530 U	500 U	440 U
rzidine	ug/Kg	420 U	530 U	500 U	440 U
ene	ug/Kg	420 U	32 J	23 J	440 U
	ug/Kg	420 U	50 J	36 J	20 J
l)phthalate	ug/Kg	420 U	530 U	500 U	440 U
alate	ug/Kg	420 U	530 U	500 U	440 U
thene	ug/Kg	420 U	37 J	28 J	440 U
hene	ug/Kg	420 U	28 J	26 J	440 U
	ug/Kg	420 U	37 J	28 J	440 U
l)pyrene	ug/Kg	420 U	32 J	500 U	440 U
racene	ug/Kg	420 U	530 U	500 U	440 U
lene	ug/Kg	420 U	48 J	500 U	440 U

SENECA ARMY DEPOT
SEAD-45 EXPANDED SITE INSPECTION
SEDIMENT ANALYSIS RESULTS

	MATRIX	SOIL	SOIL	SOIL	SOIL
	LOCATION	SEAD-45	SEAD-45	SEAD-45	SEAD-45
	DEPTH (FEET)	0-0.5	0-0.5	0-0.5	0-0.5
	SAMPLE DATE	11/01/93	11/01/93	11/01/93	11/01/93
	ES ID	SD45-1	SD45-2	SD45-3	SD45-4
	LAB ID	202996	202997	202998	202999
POUND	UNITS				
3					
	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
ndane)	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
	ug/Kg	2.2 U	2.7 U	2.6 U	2.2 J
de	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
	ug/Kg	2.2 U	2.7 J	1.3 J	2.3 U
	ug/Kg	4.2 U	5.3 U	5 U	7.4 J
	ug/Kg	4.2 U	4.3 J	5 U	12 J
	ug/Kg	4.2 U	5.3 U	5 U	4.5 U
	ug/Kg	4.2 U	5.3 U	5 U	4.5 U
	ug/Kg	4.2 U	5.3 U	5 U	4.5 U
e	ug/Kg	4.2 U	5.3 U	5 U	4.5 U
	ug/Kg	4.2 U	5.3 U	5 U	4.5 U
	ug/Kg	22 U	27 U	26 U	23 U
	ug/Kg	4.2 U	5.3 U	5 U	4.5 U
	ug/Kg	4.2 U	5.3 U	5 U	3.2 J
e	ug/Kg	2.2 U	2.7 U	2.6 U	5.7 J
ne	ug/Kg	2.2 U	2.7 U	2.6 U	2.3 U
	ug/Kg	220 U	270 U	260 U	230 U
	ug/Kg	42 U	53 U	50 U	45 U
	ug/Kg	85 U	110 U	100 U	91 U
	ug/Kg	42 U	53 U	50 U	45 U
	ug/Kg	42 U	53 U	50 U	45 U
	ug/Kg	42 U	53 U	50 U	45 U
	ug/Kg	42 U	74	50 U	580 J
	ug/Kg	42 U	53 U	50 U	45 U
	mg/Kg	14400	35000	22300	21100
	mg/Kg	10.1 U	13.4 U	11.7 U	7.2 UJ
	mg/Kg	6.9	4.2	7.3	16.1
	mg/Kg	85.4	308	187	176
	mg/Kg	0.62 J	1.4	0.94 J	0.83
	mg/Kg	0.76 J	14.9	5.6	25.6 J
	mg/Kg	84400	21700	25100	25100
	mg/Kg	22.5	48.4	31.4	31.8
	mg/Kg	11.2	19.7	12.9	13.2
	mg/Kg	63.9	814	323	241
	mg/Kg	25600	50500	32600	33200
	mg/Kg	19.8	101	52.8	72.9
	mg/Kg	9720	10200	7630	7510
	mg/Kg	458	692	616	935
	mg/Kg	0.38	5.3	4.4	2.2 J
	mg/Kg	40.1	67.7	41.6	44.6
	mg/Kg	2580	4680	3360	2840
	mg/Kg	0.19 U	0.35 U	0.24 U	0.28 UJ
	mg/Kg	1.3 U	5.6	3.1	2.5 J
	mg/Kg	208 J	377 J	146 J	130 J
	mg/Kg	0.21 U	0.38 U	0.26 U	0.31 U
	mg/Kg	23.9	53.7	37.2	32.9
	mg/Kg	104	755	312	329
	mg/Kg	0.61 U	0.68 U	0.74 U	0.68 U
ES					
trogen	mg/Kg	0.04	0.06	0.13	0.12
	%W/W	78.7	62	66.3	74.1
Hydrocarbons	mg/Kg	NS	NS	NS	NS
	mg/Kg	NS	NS	NS	NS
	standard units	NS	NS	NS	NS

APPENDIX F

TENTATIVELY IDENTIFIED COMPOUNDS

SEAD-4

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 4

SDG FILE: temp\1E41203 DATE: MATRIX:
ES: SS41
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	21	
		TOTAL TICS	21	

SDG FILE: temp\1E41203 DATE: MATRIX:
ES: SS43
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS43	992-94-	SILANE, METHYL-	180	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	180	

SDG FILE: temp\1E41203 DATE: MATRIX:
ES: SS44
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	120	
		TOTAL TICS	120	

SDG FILE: temp\1E41203 DATE: MATRIX:
ES: SS45
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	19	
		TOTAL TICS	19	

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS41
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS41	123-42-2	2-Pentanone, 4-hydroxy-4-met	2600	NJ
SS41	593-49-7	Heptacosane	340	NJ
SS41	630-02-4	Octacosane	170	NJ
SS41	630-04-6	Hentriacontane	870	NJ
SS41	630-05-7	Tritriacontane	370	NJ

TOTAL UNKNOWN TICS: 10860
TOTAL TICS 15210

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS42
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS42	123-42-2	2-Pentanone, 4-hydroxy-4-met	2400	AB
SS42	1120-21-4	Undecane	190	NJ
SS42	57-10-3	Hexadecanoic acid	320	NJ
SS42	593-49-7	Heptacosane	280	NJ
SS42	630-03-5	Nonacosane	1100	NJ
SS42	630-04-6	Hentriacontane	1000	NJ
SS42	544-85-4	Dotriacontane	250	NJ

TOTAL UNKNOWN TICS: 8180
TOTAL TICS 13720

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS43
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS43	123-42-2	2-Pentanone, 4-hydroxy-4-met	2900	AB
SS43	57-10-3	Hexadecanoic acid	140	NJ
SS43	629-99-2	Pentacosane	98	NJ
SS43	593-49-7	Heptacosane	170	NJ
SS43	630-03-5	Nonacosane	420	NJ
SS43	630-04-6	Hentriacontane	290	NJ

TOTAL UNKNOWN TICS: 7670
TOTAL TICS 11688

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS44
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS44	123-42-2	2-Pentanone, 4-hydroxy-4-met	2700	AB
SS44	593-49-7	Heptacosane	310	NJ
SS44	630-03-5	Nonacosane	670	NJ
SS44	630-04-6	Hentriacontane	470	NJ
		TOTAL UNKNOWN TICS:	4370	
		TOTAL TICS	8520	

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS45
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS45	123-42-2	2-Pentanone, 4-hydroxy-4-met	2600	NJ
SS45	630-03-5	Nonacosane	1200	NJ
SS45	630-04-6	Hentriacontane	1600	NJ
SS45	83-48-7	Stigmasterol	530	NJ
		TOTAL UNKNOWN TICS:	17340	
		TOTAL TICS	23270	

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS46
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS46	123-42-2	2-Pentanone, 4-hydroxy-4-met	2800	NJ
SS46	57-10-3	Hexadecanoic acid	470	NJ
SS46	593-49-7	Heptacosane	870	NJ
SS46	630-03-5	Nonacosane	2800	NJ
SS46	630-04-6	Hentriacontane	1300	NJ
SS46	1058-61-3	Stigmast-4-en-3-one	680	NJ
		TOTAL UNKNOWN TICS:	21600	
		TOTAL TICS	30520	

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SS47
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS47	123-42-2	2-Pentanone, 4-hydroxy-4-met	4600	NJ
SS47	57-10-3	Hexadecanoic acid	260	NJ
SS47	629-99-2	Pentacosane	300	NJ
SS47	593-49-7	Heptacosane	790	NJ
SS47	630-02-4	Octacosane	310	NJ
SS47	638-68-6	Triacontane	210	NJ
SS47	630-04-6	Hentriacontane	2000	NJ
SS47	630-05-7	Tritriacontane	620	NJ

TOTAL UNKNOWN TICS: 29030
TOTAL TICS 38120

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: SB411
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB411	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	7	BJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 7

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: SB416
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB416	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	12	BJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 12

SDG FILE: temp\1E40693 DATE: MATRIX:
ES: SB42-1
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.

TOTAL UNKNOWN TICS: 80
TOTAL TICS 80

SDG FILE: temp\1E40693 DATE: MATRIX:
ES: SB43-4
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB43-4	110-54-	HEXANE	5	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	5	

SDG FILE: temp\1E41135 DATE: MATRIX:
ES: SB445
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB445	138-86-3	Limonene	8	NJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	8	

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: SB462
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB462	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	9	BJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	9	

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: SB4101
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB4101	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	8	BJ
		TOTAL UNKNOWN TICS:	7	
		TOTAL TICS	15	

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: SB4102
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB4102	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	9	BJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	9	

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: SB4103
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB4103	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	9	BJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	9	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB411
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB411	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3200	BJ
SB411	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	160	JX
SB411	57-10-	HEXADECANOIC ACID	380	JX
SB411	593-49-	HEPTACOSANE	160	JX
SB411	630-02-	OCTACOSANE W/ PHTHALATE	120	JX
SB411	630-03-	NONACOSANE	530	JX
SB411	630-04-	HENTRIACONTANE	470	JX
SB411	630-05-	TRITRIACONTANE	110	JX
		TOTAL UNKNOWN TICS:	2210	
		TOTAL TICS	7340	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB413
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB413	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4200	BJ
SB413	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	86	JX
SB413	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	120	BJ
		TOTAL UNKNOWN TICS:	692	
		TOTAL TICS	5098	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB415
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB415	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4800	BJ
SB415	57-10-	HEXADECANOIC ACID	190	JX
SB415	593-49-	HEPTACOSANE	110	JX
SB415	630-02-	OCTACOSANE W/ PHTHALATE	95	JX
SB415	630-03-	NONACOSANE	290	JX
SB415	630-04-	HENTRIACONTANE	250	JX
		TOTAL UNKNOWN TICS:	1500	
		TOTAL TICS	7235	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB416
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB416	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4400	BJ
SB416	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	120	JX
SB416	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	130	BJ
		TOTAL UNKNOWN TICS:	2238	
		TOTAL TICS	6888	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SB42_1
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB42_1	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	9300	BJ
SB42_1	57-10-	HEXADECANOIC ACID	270	JX
SB42_1	523-59-	2H, 8H-BENZO[1,2-B:3,4-B']DI	5100	JX
SB42_1	661-19-	1-DOCOSANOL W/PENTACOSANE	190	JX
SB42_1	55334-39-	2H, 8H-BENZO[1,2-B:5,4-B']DI	700	JX
SB42_1	593-49-	HEPTACOSANE	520	JX
SB42_1	506-51-	1-TETRACOSANOL	210	JX
SB42_1	630-02-	OCTACOSANE	170	JX
SB42_1	630-03-	NONACOSANE	3000	JX
SB42_1	506-52-	1-HEXACOSANOL	410	JX
SB42_1	630-04-	HENTRIACONTANE	1200	JX
SB42_1	630-05-	TRITRIACONTANE	220	JX
SB42_1	1058-61-	STIGMAST-4-EN-3-ONE	210	JX
		TOTAL UNKNOWN TICS:	4810	
		TOTAL TICS	26310	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SB42_2
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB42_2	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4400	BJ
SB42_2	74367-33-	PROPANOIC ACID, 2-METHYL-, 2	73	JX
SB42_2	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	1600	JX
SB42_2	57-10-	HEXADECANOIC ACID	80	JX
		TOTAL UNKNOWN TICS:	830	
		TOTAL TICS	6983	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SB43_1
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB43_1	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	13000	BJ
SB43_1	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	790	JX
SB43_1	57-10-	HEXADECANOIC ACID	730	JX
SB43_1	57-11-	OCTADECANOIC ACID	110	JX
SB43_1	629-99-	PENTACOSANE	110	JX
SB43_1	593-49-	HEPTACOSANE	270	JX
SB43_1	630-02-	OCTACOSANE	180	JX
SB43_1	630-03-	NONACOSANE	1200	JX
SB43_1	506-52-	1-HEXACOSANOL	2100	JX
SB43_1	630-04-	HENTRIACONTANE	830	JX
SB43_1	630-05-	TRITRIACONTANE	120	JX
SB43_1	1058-61-	STIGMAST-4-EN-3-ONE	140	JX
		TOTAL UNKNOWN TICS:	3300	
		TOTAL TICS	22880	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SB43_3
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB43_3	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SB43_3	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	480	JX
SB43_3	544-63-	TETRADECANOIC ACID	110	JX
SB43_3	57-10-	HEXADECANOIC ACID	86	JX
		TOTAL UNKNOWN TICS:	751	
		TOTAL TICS	6027	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SB43_4
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB43_4	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3500	BJ
SB43_4	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	670	JN
		TOTAL UNKNOWN TICS:	670	
		TOTAL TICS	4840	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB441
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB441	123-42-2	2-Pentanone, 4-hydroxy-4-met	11000	NJ
SB441	1921-70-6	Pentadecane, 2,6,10,14-tetra	100	NJ
SB441	57-10-3	Hexadecanoic acid	120	NJ
SB441	638-67-5	Tricosane	100	NJ
SB441	629-99-2	Pentacosane	150	NJ
SB441	593-49-7	Heptacosane	270	NJ
SB441	630-03-5	Nonacosane	1000	NJ
SB441	630-04-6	Hentriacontane	670	NJ
SB441	630-05-7	Tritriacontane	170	NJ
		TOTAL UNKNOWN TICS:	1036	
		TOTAL TICS	14616	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB441RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB441RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	7700	NJ
SB441RE	57-10-3	Hexadecanoic acid	270	NJ
SB441RE	629-99-2	Pentacosane	150	NJ
SB441RE	593-49-7	Heptacosane	240	NJ
SB441RE	630-03-5	Nonacosane	1400	NJ
SB441RE	630-04-6	Hentriacontane	970	NJ
SB441RE	630-05-7	Tritriacontane	190	NJ
		TOTAL UNKNOWN TICS:	1511	
		TOTAL TICS	12431	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB442
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB442	123-42-2	2-Pentanone, 4-hydroxy-4-met	9300	NJ
SB442	630-03-5	Nonacosane	100	NJ
		TOTAL UNKNOWN TICS:	1110	
		TOTAL TICS	10510	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB442RE LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB442RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	6200	NJ
SB442RE	593-49-7	Heptacosane	76	NJ
SB442RE	630-03-5	Nonacosane	230	NJ
SB442RE	630-04-6	Hentriacontane	130	NJ
		TOTAL UNKNOWN TICS:	855	
		TOTAL TICS	7491	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB443
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB443	123-42-2	2-Pentanone, 4-hydroxy-4-met	9400	NJ
		TOTAL UNKNOWN TICS:	1058	
		TOTAL TICS	10458	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB443RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	632	
		TOTAL TICS	632	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB445
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB445	123-42-2	2-Pentanone, 4-hydroxy-4-met	19000	NJ
SB445	91-64-5	2H-1-Benzopyran-2-one	5000	NJ
SB445	630-03-5	Nonacosane	740	NJ
SB445	630-04-6	Hentriacontane	530	NJ
		TOTAL UNKNOWN TICS:	1100	
		TOTAL TICS	26370	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB445RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB445RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	4800	NJ
SB445RE	541-02-6	Cyclopentasiloxane, decameth	340	NJ
SB445RE	57-10-3	Hexadecanoic acid	170	NJ
SB445RE	630-03-5	Nonacosane	420	NJ
SB445RE	630-04-6	Hentriacontane	300	NJ
SB445RE	630-05-7	Tritriacontane	84	NJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	6114	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB461
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB461	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4000	BJ
SB461	57-10-	HEXADECANOIC ACID	480	JX
SB461	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	110	BJ
SB461	629-99-	PENTACOSANE	120	JX
SB461	593-49-	HEPTACOSANE	570	JX
SB461	506-51-	1-TETRACOSANOL	110	JX
SB461	630-02-	OCTACOSANE	250	JX
SB461	630-03-	NONACOSANE	1500	JX
SB461	506-52-	1-HEXACOSANOL	320	JX
SB461	638-68-	TRIACONTANE	140	JX
SB461	630-04-	HENTRIACONTANE	1500	JX
SB461	630-05-	TRITRIACONTANE	460	JX
		TOTAL UNKNOWN TICS:	2000	
		TOTAL TICS	11560	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB462
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB462	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3300	BJ
SB462	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	140	JX
		TOTAL UNKNOWN TICS:	590	
		TOTAL TICS	4030	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB471
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB471	123-42-2	2-Pentanone, 4-hydroxy-4-met	10000	NJ
SB471	630-03-5	Nonacosane	270	NJ
SB471	638-68-6	Triacontane	78	NJ
SB471	630-04-6	Hentriacontane	230	NJ
		TOTAL UNKNOWN TICS:	1499	
		TOTAL TICS	12077	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB471RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB471RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	3500	NJ
SB471RE	630-03-5	Nonacosane	260	NJ
SB471RE	630-04-6	Hentriacontane	180	NJ

TOTAL UNKNOWN TICS: 463
TOTAL TICS 4403

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB473
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB473	123-42-2	2-Pentanone, 4-hydroxy-4-met	10000	NJ

TOTAL UNKNOWN TICS: 2157
TOTAL TICS 12157

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB473RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB473RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	3700	NJ

TOTAL UNKNOWN TICS: 417
TOTAL TICS 4117

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB474
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB474	123-42-2	2-Pentanone, 4-hydroxy-4-met	9600	NJ

TOTAL UNKNOWN TICS: 1190
TOTAL TICS 10790

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB474RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB474RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	4000	NJ

TOTAL UNKNOWN TICS: 360
TOTAL TICS 4360

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB481
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB481	123-42-2	2-Pentanone, 4-hydroxy-4-met	9800	NJ
SB481	630-03-5	Nonacosane	220	NJ
SB481	630-04-6	Hentriacontane	260	NJ
		TOTAL UNKNOWN TICS:	1200	
		TOTAL TICS	11480	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB481RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB481RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	3000	NJ
SB481RE	630-03-5	Nonacosane	130	NJ
SB481RE	630-04-6	Hentriacontane	89	NJ
		TOTAL UNKNOWN TICS:	210	
		TOTAL TICS	3429	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB482
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB482	123-42-2	2-Pentanone, 4-hydroxy-4-met	9400	NJ
SB482	630-03-5	Nonacosane	140	NJ
SB482	630-04-6	Hentriacontane	170	NJ
		TOTAL UNKNOWN TICS:	1010	
		TOTAL TICS	10720	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB482RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB482RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	2500	NJ
SB482RE	111-46-6	Ethanol, 2,2'-oxybis-	98	NJ
		TOTAL UNKNOWN TICS:	84	
		TOTAL TICS	2682	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB483
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB483	123-42-2	2-Pentanone, 4-hydroxy-4-met	9900	NJ

TOTAL UNKNOWN TICS: 1260
TOTAL TICS 11160

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB483RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB483RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	2500	NJ

TOTAL UNKNOWN TICS: 360
TOTAL TICS 2860

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB491
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB491	123-42-2	2-Pentanone, 4-hydroxy-4-met	11000	NJ
SB491	832-71-3	Phenanthrene, 3-methyl-	310	NJ
SB491	203-64-5	4H-Cyclopenta[def]phenanthre	390	NJ
SB491	35465-71-5	2-Phenylnaphthalene	190	NJ
SB491	238-84-6	11H-Benzo[a]fluorene	530	NJ
SB491	2381-21-7	Pyrene, 1-methyl-	210	NJ
SB491	239-35-0	Benzo[b]naphtho[2,1-d]thioph	260	NJ
SB491	630-03-5	Nonacosane	770	NJ
SB491	192-97-2	Benzo[e]pyrene	1200	NJ
SB491	198-55-0	Perylene	610	NJ
SB491	630-04-6	Hentriacontane w/unknown	980	NJ

TOTAL UNKNOWN TICS: 2940
TOTAL TICS 19390

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB491RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB491RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	3600	NJ
SB491RE	630-03-5	Nonacosane	140	NJ
SB491RE	630-04-6	Hentriacontane	170	NJ

TOTAL UNKNOWN TICS: 240
TOTAL TICS 4150

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB492
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB492	123-42-2	2-Pentanone, 4-hydroxy-4-met	10000	NJ

TOTAL UNKNOWN TICS: 2418
TOTAL TICS 12418

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB492RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB492RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	3900	NJ

TOTAL UNKNOWN TICS: 506
TOTAL TICS 4406

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB493
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB493	123-42-2	2-Pentanone, 4-hydroxy-4-met	11000	NJ

TOTAL UNKNOWN TICS: 880
TOTAL TICS 11880

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB493RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB493RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	3500	NJ

TOTAL UNKNOWN TICS: 540
TOTAL TICS 4040

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB4101
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB4101	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5200	BJ
SB4101	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	200	JX
SB4101	57-10-	HEXADECANOIC ACID	120	JX
SB4101	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	86	BJ
SB4101	593-49-	HEPTACOSANE	130	JX
SB4101	630-02-	OCTACOSANE	82	JX
SB4101	630-03-	NONACOSANE	330	JX
SB4101	506-52-	1-HEXACOSANOL	78	JX
SB4101	630-04-	HENTRIACONTANE	370	JX
SB4101	630-05-	TRITRIACONTANE	120	JX
		TOTAL UNKNOWN TICS:	800	
		TOTAL TICS	7516	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB4102
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB4102	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3000	BJ
SB4102	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	140	JX
SB4102	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	100	BJ
SB4102	630-04-	HENTRIACONTANE	75	JX
		TOTAL UNKNOWN TICS:	1045	
		TOTAL TICS	4360	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SB4103
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB4103	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2500	BJ
SB4103	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	97	JX
SB4103	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	120	BJ
		TOTAL UNKNOWN TICS:	803	
		TOTAL TICS	3520	

SDG FILE: temp\1E41136 DATE: MATRIX:
ES: TP43
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP43	541-05-	CYCLOTRISILOXANE, HEXAMETHYL	9	BJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 9

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: TP41
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP41	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2700	BJ
TP41	57-10-	HEXADECANOIC ACID	110	JX
TP41	661-19-	1-DOCOSANOL	200	JX
TP41	593-49-	HEPTACOSANE	180	JX
TP41	506-51-	1-TETRACOSANOL	220	JX
TP41	630-02-	OCTACOSANE	91	JX
TP41	630-03-	NONACOSANE	460	JX
TP41	506-52-	1-HEXACOSANOL	280	JX
TP41	630-04-	HENTRIACONTANE	500	JX
TP41	630-05-	TRITRIACONTANE	79	JX
TP41	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	79	JX

TOTAL UNKNOWN TICS: 2236
TOTAL TICS 7135

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: TP42
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP42	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4000	BJ
TP42	1921-70-	PENTADECANE, 2,6,10,14-TETRA	82	BJ
TP42	57-10-	HEXADECANOIC ACID	150	JX
TP42	661-19-	1-DOCOSANOL	170	JX
TP42	593-49-	HEPTACOSANE	180	JX
TP42	506-51-	1-TETRACOSANOL	160	JX
TP42	630-02-	OCTACOSANE	93	JX
TP42	630-03-	NONACOSANE	440	JX
TP42	506-52-	1-HEXACOSANOL	310	JX
TP42	630-04-	HENTRIACONTANE	310	JX

TOTAL UNKNOWN TICS: 2902
TOTAL TICS 8797

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: TP43
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP43	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3700	BJ
TP43	128-37-	PHENOL, 2,6-BIS(1,1-DIMETHYL	170	JX
TP43	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	300	JX
TP43	57-10-	HEXADECANOIC ACID	180	JX
TP43	638-67-	TRICOSANE	240	JX
TP43	646-31-	TETRACOSANE	380	JX
TP43	629-99-	PENTACOSANE	530	JX
TP43	630-01-	HEXACOSANE	570	JX
TP43	593-49-	HEPTACOSANE	540	JX
TP43	630-02-	OCTACOSANE	430	JX
TP43	630-03-	NONACOSANE	480	JX
TP43	638-68-	TRIACONTANE	190	JX
TP43	630-04-	HENTRIACONTANE	190	JX
		TOTAL UNKNOWN TICS:	3120	
		TOTAL TICS	11020	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: TP44
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP44	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2700	BJ
TP44	593-49-	HEPTACOSANE	100	JX
TP44	630-03-	NONACOSANE	560	JX
TP44	630-04-	HENTRIACONTANE	140	JX
		TOTAL UNKNOWN TICS:	950	
		TOTAL TICS	4450	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: TP45
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP45	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2700	BJ
TP45	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	170	JX
TP45	57-10-	HEXADECANOIC ACID	81	JX
TP45	523-59-	2H, 8H-BENZO[1,2-B:3,4-B']DI	190	JX
TP45	593-49-	HEPTACOSANE	120	JX
TP45	630-03-	NONACOSANE	340	JX
TP45	630-04-	HENTRIACONTANE	230	JX
		TOTAL UNKNOWN TICS:	795	
		TOTAL TICS	4626	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: TP46
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP46	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2700	JX
TP46	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	120	JX
TP46	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	74	BJ
		TOTAL UNKNOWN TICS:	700	
		TOTAL TICS	3594	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: TP47
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP47	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3700	BJ
TP47	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	110	JX
TP47	630-03-	NONACOSANE	120	JX
TP47	630-04-	HENTRIACONTANE	110	JX
		TOTAL UNKNOWN TICS:	240	
		TOTAL TICS	4280	

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: TP48
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP48	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4900	BJ
TP48	630-03-	NONACOSANE	200	JX
TP48	630-04-	HENTRIACONTANE	210	JX
		TOTAL UNKNOWN TICS:	90	
		TOTAL TICS	5400	

SDG FILE: temp\1E41203 DATE: MATRIX:
ES: SD46
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD46	1066-40-	SILANOL, TRIMETHYL-	14	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	14	

SDG FILE: temp\1E41315 DATE: MATRIX:
ES: SD49
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD49	1066-40-6	Silanol, trimethyl-	16	NJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 16

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SD44
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD44	123-42-2	2-Pentanone, 4-hydroxy-4-met	3500	NJ
SD44	57-10-3	Hexadecanoic acid	810	NJ
SD44	593-49-7	Heptacosane	700	NJ
SD44	630-04-6	Hentriacontane	1900	NJ
SD44	630-05-7	Tritriacontane	570	NJ

TOTAL UNKNOWN TICS: 18460
TOTAL TICS 25940

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SD45
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD45	123-42-2	2-Pentanone, 4-hydroxy-4-met	4800	NJ
SD45	593-49-7	Heptacosane	500	NJ
SD45	630-03-5	Nonacosane	1700	NJ
SD45	630-04-6	Hentriacontane	1800	NJ
SD45	630-05-7	Tritriacontane	630	NJ
SD45	1058-61-3	Stigmast-4-en-3-one	840	NJ

TOTAL UNKNOWN TICS: 10990
TOTAL TICS 21260

SDG FILE: temp\1F41203 DATE: MATRIX:
ES: SD46
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD46	123-42-2	2-Pentanone, 4-hydroxy-4-met	6100	NJ
SD46	593-49-7	Heptacosane	1000	NJ
SD46	630-04-6	Hentriacontane	2500	NJ
SD46	83-48-7	Stigmasterol	1800	NJ
SD46	1058-61-3	Stigmast-4-en-3-one	1800	NJ

TOTAL UNKNOWN TICS: 27950
TOTAL TICS 41150

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD41
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD41	123-42-2	2-Pentanone, 4-hydroxy-4-met	16000	NJ
SD41	629-78-7	Heptadecane	2600	NJ
SD41	57-10-3	Hexadecanoic acid	2000	NJ
SD41	629-99-2	Pentacosane	1800	NJ
SD41	593-49-7	Heptacosane	1800	NJ
SD41	630-03-5	Nonacosane	15000	NJ
SD41	630-04-6	Hentriacontane	8700	NJ
SD41	59-02-9	Vitamin E	5800	NJ
SD41	83-48-7	Stigmasterol	2100	NJ
		TOTAL UNKNOWN TICS:	49900	
		TOTAL TICS	105700	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD42
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD42	123-42-2	2-Pentanone, 4-hydroxy-4-met	10000	NJ
SD42	629-78-7	Heptadecane	720	NJ
SD42	638-67-5	Tricosane	650	NJ
SD42	629-99-2	Pentacosane	790	NJ
SD42	593-049-7	Heptacosane	880	NJ
SD42	630-03-5	Nonacosane	6200	NJ
SD42	630-04-6	Hentriacontane	2800	NJ
		TOTAL UNKNOWN TICS:	16400	
		TOTAL TICS	38440	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD43
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD43	123-42-2	2-Pentanone, 4-hydroxy-4-met	6700	NJ
SD43	629-50-5	Tridecane	150	NJ
SD43	629-59-4	Tetradecane	530	NJ
SD43	629-62-9	Pentadecane	810	NJ
SD43	544-76-3	Hexadecane	670	NJ
SD43	629-78-7	Heptadecane	460	NJ
SD43	1921-70-6	Pentadecane, 2,6,10,14-tetra	330	NJ
SD43	593-49-7	Heptacosane	130	NJ
SD43	630-03-5	Nonacosane	520	NJ
SD43	630-04-6	Hentriacontane	230	NJ
		TOTAL UNKNOWN TICS:	3770	
		TOTAL TICS	14300	

SDG FILE: temp\1F41315 DATE: MATRIX:
ES: SD47
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD47	123-42-2	2-Pentanone, 4-hydroxy-4-met	14000	NJ
SD47	629-78-7	Heptadecane	2600	NJ
SD47	593-45-3	Octadecane	1100	NJ
SD47	638-36-8	Hexadecane, 2,6,10,14-tetram	990	NJ
SD47	629-92-5	Nonadecane	1000	NJ
SD47	057-11-4	Octadecanoic acid	1100	NJ
SD47	638-67-5	Tricosane	1100	NJ
SD47	646-31-1	Tetracosane	1000	NJ
SD47	078-42-2	Phosphoric acid, tris(2-ethy	1600	NJ
SD47	629-99-2	Pentacosane	1100	NJ
SD47	630-01-3	Hexacosane	1100	NJ
SD47	593-49-7	Heptacosane	1400	NJ
SD47	630-02-4	Octacosane	1300	NJ
SD47	630-03-5	Nonacosane	3600	NJ
SD47	638-68-6	Triacontane	1400	NJ
SD47	630-04-6	Hentriacontane	1600	NJ
		TOTAL UNKNOWN TICS:	6300	
		TOTAL TICS	42290	

SDG FILE: temp\1F41315 DATE: MATRIX:
ES: SD48
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD48	123-42-2	2-Pentanone, 4-hydroxy-4-met	25000	NJ
SD48	1921-70-6	Pentadecane, 2,6,10,14-tetra	5100	NJ
SD48	638-36-8	Hexadecane, 2,6,10,14-tetram	4700	NJ
SD48	630-01-3	Hexacosane	4400	NJ
SD48	593-49-7	Heptacosane	3500	NJ
SD48	630-03-5	Nonacosane	9400	NJ
SD48	630-04-6	Hentriacontane	4800	NJ
		TOTAL UNKNOWN TICS:	80400	
		TOTAL TICS	137300	

SDG FILE: temp\1F41315 DATE: MATRIX:
ES: SD49
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD49	123-42-2	2-Pentanone, 4-hydroxy-4-met	36000	NJ
SD49	629-99-2	Pentacosane	12000	NJ
SD49	593-49-7	Heptacosane	18000	NJ
SD49	630-03-5	Nonacosane	40000	NJ
SD49	638-68-6	Tricontane	14000	NJ

TOTAL UNKNOWN TICS: 163900
TOTAL TICS 283900

SDG FILE: temp\1F41315 DATE: MATRIX:
ES: 4PIPE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
4PIPE	123-42-2	2-Pentanone, 4-hydroxy-4-met	18	NJ
4PIPE	544-76-3	Hexadecane	3	NJ
4PIPE	629-78-7	Heptadecane	4	NJ
4PIPE	1921-70-6	Pentadecane, 2,6,10,14-tetra	2	NJ
4PIPE	593-45-3	Octadecane	4	NJ
4PIPE	638-36-8	Hexadecane, 2,6,10,14-tetram	2	NJ
4PIPE	629-92-5	Nonadecane	4	NJ
4PIPE	112-95-8	Eicosane	2	NJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 39

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW41
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW41	123-42-2	2-Pentanone, 4-hydroxy-4-met	14	NJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 16

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW42
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW42	123-42-2	2-Pentanone, 4-hydroxy-4-met	12	NJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 14

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW43
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW43	123-42-2	2-Pentanone, 4-hydroxy-4-met	14	NJ
SW43	791-28-6	Phosphine oxide, triphenyl-	2	NJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 18

SEAD-16

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 16

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS1612
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1612	2847-72-5	Decane, 4-methyl-	44	NJ
		TOTAL UNKNOWN TICS:	136	
		TOTAL TICS	180	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS1615
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1615	95-36-3	1,2,4-Trimethylbenzene	6	NJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	6	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS1615RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	53	
		TOTAL TICS	53	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS1616
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	98	
		TOTAL TICS	98	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS165
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS165	138-86-3	Limonene	12	NJ
		TOTAL UNKNOWN TICS:	110	
		TOTAL TICS	122	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS166
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	90	
		TOTAL TICS	90	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS167
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS167	611-14-3	Benzene, 1-ethyl-2-methyl-	670	NJ
		TOTAL UNKNOWN TICS:	4640	
		TOTAL TICS	5310	

SDG FILE: temp\1E40693 DATE: MATRIX:
ES: SS1610
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1610	75-71-	METHANE, DICHLORODIFLUORO-	21	JX
SS1610	281-23-	TRICYCLO[3.3.1.13,7]DECANE	11	JX
		TOTAL UNKNOWN TICS:	23	
		TOTAL TICS	55	

SDG FILE: temp\1E40693 DATE: MATRIX:
ES: SS169
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS169	75-71-	METHANE, DICHLORODIFLUORO-	29	JX
SS169	281-23-	TRICYCLO[3.3.1.13,7]DECANE	15	JX
		TOTAL UNKNOWN TICS:	26	
		TOTAL TICS	70	

SDG FILE: temp\1E40319 DATE: MATRIX:
ES: SS163
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS163	95-13-	1H-INDENE	24	JX
		TOTAL UNKNOWN TICS:	49	
		TOTAL TICS	73	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SS1610
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1610	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	19000	BJ
SS1610	26730-14-	TRIDECANE, 7-METHYL-	7500	JX
SS1610	74645-98-	DODECANE, 2,7,10-TRIMETHYL-	4700	JX
SS1610	1921-70-	PENTADECANE, 2,6,10,14-TETRA	2100	BJ
		TOTAL UNKNOWN TICS:	38700	
		TOTAL TICS	72000	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SS169
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS169	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	37000	BJ
SS169	112-40-	DODECANE	2900	JX
SS169	17301-23-	UNDECANE, 2,6-DIMETHYL-	6000	JX
SS169	26730-14-	TRIDECANE, 7-METHYL-	9100	JX
SS169	629-50-	TRIDECANE	3000	JX
SS169	74645-98-	DODECANE, 2,7,10-TRIMETHYL-	7000	JN
SS169	629-59-	TETRADECANE	3000	JX
SS169	1921-70-	PENTADECANE, 2,6,10,14-TETRA	3400	BJ
SS169	629-99-	PENTACOSANE	3000	JX
SS169	630-01-	HEXACOSANE	2800	JX
SS169	593-49-	HEPTACOSANE	2800	JX
SS169	630-02-	OCTACOSANE	2900	JX
SS169	630-03-	NONACOSANE	2800	JX
SS169	638-68-	TRIACONTANE	2700	JX
SS169	630-04-	HENTRIACONTANE	2900	JX
		TOTAL UNKNOWN TICS:	33000	
		TOTAL TICS	124300	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS163
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS163	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	21000	BJ
SS163	90-12-	NAPHTHALENE, 1-METHYL-	510	JX
SS163	575-41-	NAPHTHALENE, 1,3-DIMETHYL-	350	JX
SS163	629-78-	HEPTADECANE	510	JX
SS163	1921-70-	PENTADECANE, 2,6,10,14-TETRA	1200	JX
SS163	593-45-	OCTADECANE	620	JX
SS163	629-92-	NONADECANE	660	JX
SS163	112-95-	EICOSANE	660	JX
SS163	629-94-	HENEICOSANE W/ PAH	660	JX
SS163	629-97-	DOCOSANE	360	JX
SS163	638-67-	TRICOSANE	390	JX
SS163	646-31-	TETRACOSANE	390	JX
SS163	629-99-	PENTACOSANE	510	JX
SS163	630-01-	HEXACOSANE	430	JX
SS163	593-49-	HEPTACOSANE	610	JX
SS163	630-02-	OCTACOSANE	570	JX
SS163	630-03-	NONACOSANE	1400	JX
SS163	638-68-	TRIACONTANE	360	JX
SS163	630-04-	HENTRIACONTANE	690	JX
		TOTAL UNKNOWN TICS:	1010	
		TOTAL TICS	32890	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS161
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS161	123-42-2	2-Pentanone, 4-hydroxy-4-met	8800	NJ
SS161	544-76-3	Hexadecane	300	NJ
SS161	629-78-7	Heptadecane	380	NJ
SS161	593-45-3	Octadecane	320	NJ
SS161	629-97-0	Docosane w/unknown	440	NJ
SS161	646-31-1	Tetracosane w/unknown	330	NJ
		TOTAL UNKNOWN TICS:	21900	
		TOTAL TICS	32470	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1611
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1611	123-42-2	2-Pentanone, 4-hydroxy-4-met	6300	NJ
SS1611	57-10-3	Hexadecanoic acid	610	NJ
SS1611	593-49-7	Heptacosane	250	NJ
SS1611	630-03-5	Nonacosane	1300	NJ
SS1611	638-68-6	Triacontane	190	NJ
SS1611	630-04-6	Hentriacontane	1700	NJ
SS1611	630-05-7	Tritriacontane	510	NJ
		TOTAL UNKNOWN TICS:	5570	
		TOTAL TICS	16430	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1612
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1612	123-42-2	2-Pentanone, 4-hydroxy-4-met	5500	NJ
SS1612	57-10-3	Hexadecanoic acid	400	NJ
SS1612	629-99-2	Pentacosane	80	NJ
SS1612	593-49-7	Heptacosane	130	NJ
SS1612	630-03-5	Nonacosane	480	NJ
SS1612	630-04-6	Hentriacontane	300	NJ
		TOTAL UNKNOWN TICS:	3420	
		TOTAL TICS	10310	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1613
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1613	123-42-2	2-Pentanone, 4-hydroxy-4-met	9800	NJ
SS1613	1120-21-4	Undecane	310	NJ
SS1613	57-10-3	Hexadecanoic acid	700	NJ
SS1613	629-99-2	Pentacosane	150	NJ
SS1613	593-49-7	Heptacosane	330	NJ
SS1613	630-03-5	Nonacosane	1100	NJ
SS1613	630-04-6	Hentriacontane	690	NJ
		TOTAL UNKNOWN TICS:	5810	
		TOTAL TICS	18890	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1614
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1614	123-42-2	2-Pentanone, 4-hydroxy-4-met	5900	NJ
SS1614	1120-21-4	Undecane	120	NJ
SS1614	629-62-9	Pentadecane	100	NJ
SS1614	544-76-3	Hexadecane	140	NJ
SS1614	629-78-7	Heptadecane	200	NJ
SS1614	1921-70-6	Pentadecane, 2,6,10,14-tetra	93	NJ
SS1614	593-45-3	Octadecane	170	NJ
SS1614	629-92-5	Nonadecane	170	NJ
SS1614	57-10-3	Hexadecanoic acid	190	NJ
SS1614	112-95-8	Eicosane	120	NJ
SS1614	629-94-7	Heneicosane	100	NJ
SS1614	646-31-1	Tetracosane	95	NJ
SS1614	629-99-2	Pentacosane	100	NJ
SS1614	593-49-7	Heptacosane	110	NJ
SS1614	630-03-5	Nonacosane	330	NJ
SS1614	630-04-6	Hentriacontane	290	NJ
		TOTAL UNKNOWN TICS:	810	
		TOTAL TICS	9038	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1615
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1615	123-42-2	2-Pentanone, 4-hydroxy-4-met	5300	NJ
SS1615	57-10-3	Hexadecanoic acid	130	NJ
SS1615	629-99-2	Pentacosane	81	NJ
SS1615	593-49-7	Heptacosane	150	NJ
SS1615	630-03-5	Nonacosane	770	NJ
SS1615	630-04-6	Hentriacontane	340	NJ
		TOTAL UNKNOWN TICS:	1426	
		TOTAL TICS	8197	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1616
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1616	123-42-2	2-Pentanone, 4-hydroxy-4-met	18000	NJ
		TOTAL UNKNOWN TICS:	65510	
		TOTAL TICS	83510	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1616RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1616RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	15000	NJ

TOTAL UNKNOWN TICS: 81060
TOTAL TICS 96060

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS161DL
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS161DL	123-42-2	2-Pentanone, 4-hydroxy-4-met	17000	NJ
SS161DL	544-76-3	Hexadecane	480	NJ
SS161DL	629-78-7	Heptadecane	570	NJ
SS161DL	593-49-3	Octadecane	560	NJ
SS161DL	629-92-5	Nonadecane	530	NJ
SS161DL	629-97-0	Docosane	440	NJ
SS161DL	638-67-5	Tricosane	520	NJ

TOTAL UNKNOWN TICS: 31110
TOTAL TICS 51210

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS162
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS162	123-42-2	2-Pentanone, 4-hydroxy-4-met	6200	NJ
SS162	1120-21-4	Undecane	360	NJ
SS162	90-12-0	Naphthalene, 1-methyl-	460	NJ
SS162	575-41-7	Naphthalene, 1,3-dimethyl-	340	NJ
SS162	1921-70-6	Pentadecane, 2,6,10,14-tetra	480	NJ
SS162	57-10-3	Hexadecanoic acid	240	NJ
SS162	2531-84-2	Phenanthrene, 2-methyl-	270	NJ
SS162	112-95-8	Eicosane	220	NJ
SS162	629-94-7	Heneicosane w/dimethylnaphth	260	NJ
SS162	629-97-0	Docosane	210	NJ
SS162	638-67-5	Tricosane	300	NJ
SS162	238-84-6	11H-Benzo[a]fluorene	310	NJ
SS162	646-31-1	Tetracosane w/C17H12 PAH	420	NJ
SS162	629-99-2	Pentacosane	270	NJ
SS162	239-35-0	Benzo[b]naphtho[2,1-d]thioph	220	NJ
SS162	629-78-7	Heptadecane	310	NJ
SS162	630-03-5	Nonacosane	1000	NJ

TOTAL UNKNOWN TICS: 1060
TOTAL TICS 12930

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS164
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS164	123-42-2	2-Pentanone, 4-hydroxy-4-met	30000	NJ
SS164	72-55-9	p,p'-DDE	3400	NJ
SS164	638-67-5	Tricosane w/unknown	7800	NJ
SS164	646-31-1	Tetracosane	3800	NJ
SS164	629-99-2	Pentacosane	4800	NJ
SS164	630-01-3	Hexacosane	5100	NJ
		TOTAL UNKNOWN TICS:	84000	
		TOTAL TICS	138900	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS165
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS165	123-42-2	2-Pentanone, 4-hydroxy-4-met	10000	NJ
SS165	629-59-4	Tetradecane	440	NJ
SS165	629-62-9	Pentadecane	680	NJ
SS165	544-76-3	Hexadecane	850	NJ
SS165	629-78-7	Heptadecane	1200	NJ
SS165	1921-70-6	Pentadecane, 2,6,10,14-tetra	440	NJ
SS165	593-45-3	Octadecane	1100	NJ
SS165	57-10-3	Hexadecanoic acid	460	NJ
SS165	112-95-8	Eicosane	760	NJ
SS165	629-94-7	Heneicosane	560	NJ
SS165	629-97-0	Docosane	480	NJ
SS165	638-67-5	Tricosane	480	NJ
SS165	593-49-7	Heptacosane	410	NJ
SS165	630-03-5	Nonacosane	1500	NJ
SS165	630-04-6	Hentriacontane	1100	NJ
		TOTAL UNKNOWN TICS:	6720	
		TOTAL TICS	27180	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS166
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS166	123-42-2	2-Pentanone, 4-hydroxy-4-met	15000	NJ
		TOTAL UNKNOWN TICS:	189000	
		TOTAL TICS	204000	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS167
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS167	123-42-2	2-Pentanone, 4-hydroxy-4-met	22000	NJ
SS167	575-41-7	Naphthalene, 1,3-dimethyl-	29000	NJ
SS167	629-62-9	Pentadecane	78000	NJ
		TOTAL UNKNOWN TICS:	650000	
		TOTAL TICS	779000	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS168
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS168	123-42-2	2-Pentanone, 4-hydroxy-4-met	16000	NJ
SS168	638-67-5	Tricosane	710	NJ
SS168	646-31-1	Tetracosane	810	NJ
SS168	629-99-2	Pentacosane	820	NJ
SS168	630-03-5	Nonacosane	1200	NJ
		TOTAL UNKNOWN TICS:	40310	
		TOTAL TICS	59850	

SDG FILE: temp\1E41135 DATE: MATRIX:
ES: FS167
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS167	75-18-3	Dimethyl sulfide	30	NJ
FS167	110-54-3	Hexane	13	NJ
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	43	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: FS161
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS161	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3500	BJ
FS161	57-10-	HEXADECANOIC ACID	2700	JX
FS161	57-11-	OCTADECANOIC ACID	1300	JX
FS161	593-49-	HEPTACOSANE	1200	JX
FS161	630-03-	NONACOSANE	5300	JX
FS161	630-04-	HENTRIACONTANE	2700	JX
FS161	57-88-	CHOLESTEROL	4900	JX
FS161	630-05-	TRITRIACONTANE	750	JX
		TOTAL UNKNOWN TICS:	15420	
		TOTAL TICS	37770	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: FS162
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS162	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3100	BJ
FS162	544-76-	HEXADECANE	240	JX
FS162	629-78-	HEPTADECANE	560	JX
FS162	1921-70-	PENTADECANE, 2,6,10,14-TETRA	380	JX
FS162	486-25-	9H-FLUOREN-9-ONE	870	JX
FS162	593-45-	OCTADECANE	950	JX
FS162	638-36-	HEXADECANE, 2,6,10,14-TETRAM	460	JX
FS162	629-92-	NONADECANE	1400	JX
FS162	832-71-	PHENANTHRENE, 3-METHYL-	280	JX
FS162	2531-84-	PHENANTHRENE, 2-METHYL- W/ A	500	JX
FS162	548-39-	1H-PHENALEN-1-ONE	260	JX
FS162	112-95-	EICOSANE	1400	JX
FS162	84-65-	9,10-ANTHRACENEDIONE	1000	JX
FS162	629-94-	HENEICOSANE W/ DIMETHYLPHENA	1300	JX
FS162	629-97-	DOCOSANE W/ BENZONAPHTHOFURA	730	JX
FS162	638-67-	TRICOSANE	490	JX
FS162	646-31-	TETRACOSANE	340	JX
FS162	27208-37-	CYCLOPENTA[CD]PYRENE W/ PENT	240	JX
FS162	630-03-	NONACOSANE	310	JX
		TOTAL UNKNOWN TICS:	810	
		TOTAL TICS	15620	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: FS163
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS163	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	11000	BJ
FS163	99-87-	BENZENE, 1-METHYL-4-(1-METHY	10000	JX
FS163	98-55-	3-CYCLOHEXENE-1-METHANOL,.AL	0	JX
FS163	90-12-	NAPHTHALENE, 1-METHYL-	27000	JX
FS163	939-27-	NAPHTHALENE, 2-ETHYL- W/ ALI	16000	JX
FS163	581-42-	NAPHTHALENE, 2,6,-DIMETHYL-	18000	JX
FS163	575-41-	NAPHTHALENE, 1,3-DIMETHYL-	28000	JX
FS163	575-43-	NAPHTHALENE, 1,6-DIMETHYL-	14000	JX
FS163	581-40-	NAPHTHALENE, 2,3-DIMETHYL-	13000	JX
FS163	573-98-	NAPHTHALENE, 1,2-DIMETHYL-	10000	JX
FS163	644-08-	1,1'-BIPHENYL, 4-METHYL-	8300	JX
FS163	832-71-	PHENANTHRENE, 3-METHYL-	14000	JX
FS163	2531-84-	PHENANTHRENE, 2-METHYL- W/ H	18000	JX
FS163	832-69-	PHENANTHRENE, 1-METHYL-	12000	JX
		TOTAL UNKNOWN TICS:	86000	
		TOTAL TICS	285300	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: FS164
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS164	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5200	BJ
FS164	629-78-	HEPTADECANE	1100	JX
FS164	1921-70-	PENTADECANE, 2,6,10,14-TETRA	1200	JX
FS164	593-45-	OCTADECANE	1800	JX
FS164	638-36-	HEXADECANE, 2,6,10,14-TETRAM	1500	JX
FS164	629-92-	NONADECANE	2600	JX
FS164	57-10-	HEXADECANOIC ACID	1100	JX
FS164	112-95-	EICOSANE	2700	JX
FS164	629-94-	HENEICOSANE	2400	JX
FS164	629-97-	DOCOSANE	1900	JX
FS164	638-67-	TRICOSANE	1700	JX
FS164	646-31-	TETRACOSANE	1100	JX
FS164	629-99-	PENTACOSANE	1000	JX
FS164	630-01-	HEXACOSANE	640	JX
FS164	593-49-	HEPTACOSANE	860	JX
FS164	630-03-	NONACOSANE	1700	JX
FS164	638-68-	TRIACONTANE	690	JX
FS164	630-04-	HENTRIACONTANE	960	JX
		TOTAL UNKNOWN TICS:	2160	
		TOTAL TICS	32310	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS165
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS165	123-42-2	2-Pentanone, 4-hydroxy-4-met	13000	NJ
FS165	1921-70-6	Pentadecane, 2,6,10,14-tetra	310	NJ
FS165	638-36-8	Hexadecane, 2,6,10,14-tetram	290	NJ
FS165	629-92-5	Nonadecane	220	NJ
FS165	57-10-3	Hexadecanoic acid	700	NJ
FS165	629-97-0	Docosane	240	NJ
FS165	72-55-9	p,p'-DDE	720	NJ
FS165	638-67-5	Tricosane	350	NJ
FS165	646-31-1	Tetracosane w/unknowns	540	NJ
FS165	629-99-2	Pentacosane	400	NJ
FS165	593-49-7	Heptacosane	380	NJ
FS165	630-02-4	Octacosane	260	NJ
FS165	630-03-5	Nonacosane	890	NJ
FS165	638-68-6	Triacontane	450	NJ
FS165	630-04-6	Hentriacontane	860	NJ
		TOTAL UNKNOWN TICS:	2860	
		TOTAL TICS	22470	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS165RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS165RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	11000	NJ
FS165RE	1921-70-6	Pentadecane, 2,6,10,14-tetra	280	NJ
FS165RE	638-36-8	Hexadecane, 2,6,10,14-tetram	280	NJ
FS165RE	629-92-5	Nonadecane	210	NJ
FS165RE	57-10-3	Hexadecanoic acid	550	NJ
FS165RE	629-94-7	Heneicosane	220	NJ
FS165RE	629-97-0	Docosane	300	NJ
FS165RE	072-55-9	p,p'-DDE	600	NJ
FS165RE	638-67-5	Tricosane	360	NJ
FS165RE	646-31-1	Tetracosane w/unknowns	590	NJ
FS165RE	50-29-3	Chlorophenothane	320	NJ
FS165RE	629-99-2	Pentacosane w/C18H14 PAH	440	NJ
FS165RE	593-49-7	Heptacosane	390	NJ
FS165RE	630-02-4	Octacosane	270	NJ
FS165RE	630-03-5	Nonacosane	910	NJ
FS165RE	638-68-6	Triacontane	450	NJ
FS165RE	630-04-6	Hentriacontane	750	NJ
		TOTAL UNKNOWN TICS:	2190	
		TOTAL TICS	20110	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS166
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS166	123-42-2	2-Pentanone, 4-hydroxy-4-met	9600	NJ
FS166	630-01-3	Tricosane w/unknowns	77	NJ
FS166	836-30-6	Benzenamine, 4-nitro-N-pheny	120	NJ
FS166	629-99-2	Pentacosane w/benz[de]anthra	87	NJ
FS166	630-03-5	Nonacosane	130	NJ
FS166	192-97-2	Benzo[e]pyrene	160	NJ
FS166	630-04-6	Hentriacontane	110	NJ
		TOTAL UNKNOWN TICS:	464	
		TOTAL TICS	10748	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS166RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS166RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	4000	NJ
		TOTAL UNKNOWN TICS:	330	
		TOTAL TICS	4330	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS167
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS167	123-42-2	2-Pentanone, 4-hydroxy-4-met	57000	NJ
FS167	57-10-3	Hexadecanoic acid	8000	NJ
FS167	638-67-5	Tricosane w/unknowns	1200	NJ
FS167	646-31-1	Tetracosane w/1-methylpyrene	1100	NJ
FS167	629-99-2	Pentacosane w/benz[de]anthra	2000	NJ
FS167	630-01-3	Hexacosane	1100	NJ
FS167	593-49-7	Heptacosane	2800	NJ
FS167	630-02-4	Octacosane	1500	NJ
FS167	630-03-5	Nonacosane	27000	NJ
FS167	638-68-6	Triacontane	11000	NJ
FS167	630-04-6	Hentriacontane	41000	NJ
FS167	544-85-4	Dotriacontane	4500	NJ
FS167	57-88-5	Cholesterol	31000	NJ
FS167	630-05-7	Tritriacontane	3500	NJ
		TOTAL UNKNOWN TICS:	81900	
		TOTAL TICS	274600	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS167RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS167RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	38000	NJ
FS167RE	57-10-3	Hexadecanoic acid	6900	NJ
FS167RE	112-95-8	Tricosane w/C17H12 PAH	1100	NJ
FS167RE	646-31-1	Tetracosane	1200	NJ
FS167RE	629-99-2	Pentacosane	1600	NJ
FS167RE	630-01-3	Hexacosane	1000	NJ
FS167RE	593-49-7	Heptacosane	3000	NJ
FS167RE	630-02-4	Octacosane	1500	NJ
FS167RE	630-03-5	Nonacosane	37000	NJ
FS167RE	638-68-6	Triacontane	7800	NJ
FS167RE	630-04-6	Hentriacontane	30000	NJ
FS167RE	544-85-4	Dotriacontane w/polycyclic h	4200	NJ
FS167RE	57-88-5	Cholesterol	9800	NJ
FS167RE	630-05-7	Tritriacontane	3500	NJ
		TOTAL UNKNOWN TICS:	29000	
		TOTAL TICS	175600	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS168
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS168	123-42-2	2-Pentanone, 4-hydroxy-4-met	58000	NJ
FS168	142-62-1	Hexanoic acid	1200	NJ
FS168	124-07-2	Octanoic Acid	1600	NJ
FS168	112-05-0	Nonanoic acid	2000	NJ
FS168	544-63-8	Tetradecanoic acid	2300	NJ
FS168	57-10-3	Hexadecanoic acid	21000	NJ
FS168	629-94-7	Heneicosane w/unknown	1100	NJ
FS168	57-11-4	Octadecanoic acid	16000	NJ
FS168	638-67-5	Tricosane	1200	NJ
FS168	629-99-2	Pentacosane w/benz[de]anthra	1800	NJ
FS168	593-49-7	Heptacosane	1800	NJ
FS168	630-03-5	Nonacosane	13000	NJ
FS168	630-04-6	Hentriacontane	7400	NJ
		TOTAL UNKNOWN TICS:	19100	
		TOTAL TICS	147500	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: FS168RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
FS168RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	43000	NJ
FS168RE	112-05-0	Nonanoic acid	1000	NJ
FS168RE	544-63-8	Tetradecanoic acid	1200	NJ
FS168RE	57-10-3	Hexadecanoic acid	11000	NJ
FS168RE	630-03-5	Nonacosane	3400	NJ
FS168RE	630-04-6	Hentriacontane	1800	NJ
		TOTAL UNKNOWN TICS:	14700	
		TOTAL TICS	76100	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW161
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW161	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	13	BJ
MW161	57-10-	HEXADECANOIC ACID	3	BJ
		TOTAL UNKNOWN TICS:	10	
		TOTAL TICS	26	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW162
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW162	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	14	BJ
MW162	791-28-	PHOSPHINE OXIDE, TRIPHENYL-	3	JX

TOTAL UNKNOWN TICS: 3
TOTAL TICS 20

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW163
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW163	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	15	BJ
MW163	57-10-	HEXADECANOIC ACID	4	BJ

TOTAL UNKNOWN TICS: 8
TOTAL TICS 27

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW163RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW163RE	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4	BJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 6

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW1641
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW1641	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	14	BJ

TOTAL UNKNOWN TICS: 11
TOTAL TICS 25

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SW161
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW161	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	49	BJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 49

SDG FILE: temp\1F41136 DATE: MATRIX:
ES: SW162
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW162	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	51	BJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 53

SEAD-17

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 17

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS1722
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	107	
		TOTAL TICS	107	

SDG FILE: temp\1E40299 DATE: MATRIX:
ES: SS179RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	11	
		TOTAL TICS	11	

SDG FILE: temp\1E40693 DATE: MATRIX:
ES: SS1710
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1710	75-71-	METHANE, DICHLORODIFLUORO-	45	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	45	

SDG FILE: temp\1E40693 DATE: MATRIX:
ES: SS1711
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1711	75-71-	METHANE, DICHLORODIFLUORO-	23	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	23	

SDG FILE: temp\1E40319 DATE: MATRIX:
ES: SS171
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS171	95-13-	1H-INDENE W/ ALKANE	12	JX
		TOTAL UNKNOWN TICS:	7	
		TOTAL TICS	19	

SDG FILE: temp\1E40319 DATE: MATRIX:
ES: SS1719
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1719	24524-58-	BICYCLO[3.1.0]HEXANE, 6-ISOP	33	JX
SS1719	470-82-	CINEOLE	19	JX
		TOTAL UNKNOWN TICS:	931	
		TOTAL TICS	983	

SDG FILE: temp\1E40319 DATE: MATRIX:
ES: SS172
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS172	565-80-	3-PENTANONE, 2,4-DIMETHYL-	11	JX
		TOTAL UNKNOWN TICS:	56	
		TOTAL TICS	67	

SDG FILE: temp\1E40319 DATE: MATRIX:
ES: SS173
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS173	106-68-	3-OCTANONE	16	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	16	

SDG FILE: temp\1E40319 DATE: MATRIX:
ES: SS178
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	7	
		TOTAL TICS	7	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS1722
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1722	123-42-2	2-Pentanone, 4-hydroxy-4-met	6900	NJ
SS1722	57-10-3	Hexadecanoic acid	200	NJ
SS1722	629-99-2	Pentacosane	240	NJ
SS1722	630-01-3	Hexacosane	96	NJ
SS1722	593-49-7	Heptacosane	1200	NJ
SS1722	630-02-4	Octacosane	100	NJ
SS1722	630-03-5	Nonacosane	1100	NJ
SS1722	630-04-6	Hentriacontane	350	NJ
		TOTAL UNKNOWN TICS:	1085	
		TOTAL TICS	11271	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS1723
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1723	123-42-2	2-Pentanone, 4-hydroxy-4-met	6800	NJ
SS1723	57-10-3	Hexadecanoic acid	95	NJ
SS1723	629-99-2	Pentacosane	120	NJ
SS1723	593-49-7	Heptacosane	1300	NJ
SS1723	630-02-4	Octacosane	180	NJ
SS1723	630-03-5	Nonacosane	1200	NJ
SS1723	630-04-6	Hentriacontane	360	NJ
		TOTAL UNKNOWN TICS:	2238	
		TOTAL TICS	12293	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS1724
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1724	123-42-2	2-Pentanone, 4-hydroxy-4-met	6500	NJ
SS1724	629-62-9	Pentadecane	94	NJ
SS1724	544-76-3	Hexadecane	110	NJ
SS1724	629-78-7	Heptadecane	190	NJ
SS1724	593-45-3	Octadecane	220	NJ
SS1724	629-92-5	Nonadecane	230	NJ
SS1724	112-95-8	Eicosane	200	NJ
SS1724	629-94-7	Heneicosane	170	NJ
SS1724	629-99-2	Pentacosane	130	NJ
SS1724	593-49-7	Heptacosane	1300	NJ
SS1724	630-03-5	Nonacosane	1200	NJ
SS1724	630-04-6	Hentriacontane	300	NJ
		TOTAL UNKNOWN TICS:	660	
		TOTAL TICS	11304	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SS1710
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1710	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3300	BJ
SS1710	629-62-	PENTADECANE	120	JX
SS1710	544-76-	HEXADECANE	140	JX
SS1710	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	240	JX
SS1710	629-78-	HEPTADECANE	210	JX
SS1710	593-45-	OCTADECANE	230	JX
SS1710	638-36-	HEXADECANE, 2,6,10,14-TETRAM	130	JX
SS1710	629-92-	NONADECANE	270	JX
SS1710	57-10-	HEXADECANOIC ACID	130	JX
SS1710	314-40-	BROMACIL	230	JX
SS1710	112-95-	EICOSANE	240	JX
SS1710	629-94-	HENEICOSANE	250	JX
SS1710	629-97-	DOCOSANE	130	JX
SS1710	638-67-	TRICOSANE	130	JX
SS1710	629-99-	PENTACOSANE	220	JX
SS1710	593-49-	HEPTACOSANE	180	JX
SS1710	630-02-	OCTACOSANE	110	JX
SS1710	630-03-	NONACOSANE	320	JX
SS1710	630-04-	HENTRIACONTANE	220	JX
		TOTAL UNKNOWN TICS:	290	
		TOTAL TICS	7090	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: SS1711
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1711	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6800	BJ
SS1711	57-10-	HEXADECANOIC ACID	730	JX
SS1711	661-19-	1-DOCOSANOL W/PENTACOSANE	230	JX
SS1711	593-49-	HEPTACOSANE	250	JX
SS1711	506-51-	1-TETRACOSANOL	220	JX
SS1711	630-02-	OCTACOSANE	170	JX
SS1711	630-03-	NONACOSANE	1100	JX
SS1711	506-52-	1-HEXACOSANOL	630	JX
SS1711	630-04-	HENTRIACONTANE	1200	JX
SS1711	630-05-	TRITRIACONTANE	220	JX
		TOTAL UNKNOWN TICS:	3760	
		TOTAL TICS	15310	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS171
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS171	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SS171	138-86-	LIMONENE	1300	JX
SS171	57-10-	HEXADECANOIC ACID	2000	JX
SS171	593-49-	HEPTACOSANE	870	JX
SS171	630-03-	NONACOSANE	1800	JX
SS171	506-52-	1-HEXACOSANOL	2800	JX
SS171	630-04-	HENTRIACONTANE	2300	JX
SS171	1058-61-	STIGMAST-4-EN-3-ONE	670	JX
		TOTAL UNKNOWN TICS:	23180	
		TOTAL TICS	39520	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1712
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1712	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	10000	BJ
SS1712	57-10-	HEXADECANOIC ACID	200	JX
SS1712	593-49-	HEPTACOSANE	130	JX
SS1712	630-03-	NONACOSANE	300	JX
SS1712	506-52-	1-HEXACOSANOL	110	JX
SS1712	630-04-	HENTRIACONTANE	380	JX
		TOTAL UNKNOWN TICS:	750	
		TOTAL TICS	11870	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1714
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1714	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3600	BJ
SS1714	630-03-	NONACOSANE	120	JX
SS1714	630-04-	HENTRIACONTANE	74	JX
SS1714	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	110	BJ
		TOTAL UNKNOWN TICS:	177	
		TOTAL TICS	4081	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1716
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1716	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5100	BJ
SS1716	1002-84-	PENTADECANOIC ACID	660	JX
SS1716	5746-58-	TETRADECANOIC ACID, 12-METHY	540	JX
SS1716	57-10-	HEXADECANOIC ACID	1300	JX
SS1716	661-19-	1-DOCOSANOL	410	JX
SS1716	593-49-	HEPTACOSANE	610	JX
SS1716	630-02-	OCTACOSANE	440	JX
SS1716	630-03-	NONACOSANE	2200	JX
SS1716	506-52-	1-HEXACOSANOL	2000	JX
SS1716	630-04-	HENTRIACONTANE	2700	JX
SS1716	630-05-	TRITRIACONTANE	690	JX
SS1716	1058-61-	STIGMAST-4-EN-3-ONE	660	JX
SS1716	559-74-	FRIEDELIN	410	JX
		TOTAL UNKNOWN TICS:	6180	
		TOTAL TICS	23900	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1717
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1717	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SS1717	1002-84-	PENTADECANOIC ACID	450	JX
SS1717	5746-58-	TETRADECANOIC ACID, 12-METHY	460	JX
SS1717	57-10-	HEXADECANOIC ACID	1300	JX
SS1717	60-33-	9,12-OCTADECADIENOIC ACID	630	JX
SS1717	661-19-	1-DOCOSANOL W/ PENTACOSANE	290	JX
SS1717	630-03-	NONACOSANE	1100	JX
SS1717	506-52-	1-HEXACOSANOL	470	JX
SS1717	630-04-	HENTIACONTANE	1700	JX
SS1717	630-05-	TRITRIACONTANE	350	JX
		TOTAL UNKNOWN TICS:	5560	
		TOTAL TICS	16910	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1718
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1718	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4700	BJ
SS1718	593-45-	OCTADECANE	400	JX
SS1718	629-92-	NONADECANE	460	JX
SS1718	57-10-	HEXADECANOIC ACID	1100	JX
SS1718	112-95-	EICOSANE	500	JX
SS1718	629-94-	HENEICOSANE	420	JX
SS1718	60-33-	9,12-OCTADECADIENOIC ACID	500	JX
SS1718	629-99-	PENTACOSANE	500	JX
SS1718	593-49-	HEPTACOSANE	710	JX
SS1718	630-02-	OCTACOSANE	420	JX
SS1718	630-03-	NONACOSANE	1400	JX
SS1718	506-52-	1-HEXACOSANOL	1000	JX
SS1718	630-04-	HENTRIACONTANE	1600	JX
SS1718	83-48-	STIGMASTEROL	540	JX
SS1718	1058-61-	STGMAST-4-EN-3-ONE	690	JX
		TOTAL UNKNOWN TICS:	5440	
		TOTAL TICS	20380	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1718R
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1718R	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	9	BJ
SS1718R	74381-40-	PROPANOIC ACID, 2-METHYL-1-(	5	JX
		TOTAL UNKNOWN TICS:	4	
		TOTAL TICS	18	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1719
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1719	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	27000	BJ
SS1719	138-86-	LIMONENE	13000	JX
SS1719	57-10-	HEXADECANOIC ACID	1500	JX
SS1719	630-03-	NONACOSANE	1300	JX
SS1719	630-04-	HENTRIACONTANE	2100	JX
		TOTAL UNKNOWN TICS:	48720	
		TOTAL TICS	93620	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS172
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS172	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5400	BJ
SS172	5746-58-	TETRADECANOIC ACID, 12-METHY	700	JX
SS172	57-10-	HEXADECANOIC ACID	1800	JX
SS172	661-19-	1-DOCOSANOL	1200	JX
SS172	593-49-	HEPTACOSANE	640	JX
SS172	506-51-	1-TETRACOSANOL	920	JX
SS172	630-03-	NONACOSANE	2300	JX
SS172	506-52-	1-HEXACOSANOL	1800	JX
SS172	630-04-	HENTRIACONTANE	2900	JX
SS172	630-05-	TRITRIACONTANE	610	JX
SS172	1058-61-	STIGMAST-4-EN-3-ONE	570	JX
		TOTAL UNKNOWN TICS:	7610	
		TOTAL TICS	26450	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1720
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1720	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	8300	BJ
SS1720	57-10-	HEXADECANOIC ACID	1100	JX
SS1720	593-49-	HEPTACOSANE	490	JX
SS1720	630-03-	NONACOSANE	1200	JX
SS1720	506-52-	1-HEXACOSANOL	990	JX
SS1720	630-04-	HENTRIACONTANE	980	JX
SS1720	83-48-	STIGMASTEROL	450	JX
SS1720	559-70-	BETA-AMYRIN	290	JX
		TOTAL UNKNOWN TICS:	6890	
		TOTAL TICS	20690	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS1721
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1721	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4000	BJ
SS1721	57-10-	HEXADECANOIC ACID	1500	JX
SS1721	630-03-	NONACOSANE	1400	JX
SS1721	506-52-	1-HEXACOSANOL	980	JX
SS1721	630-04-	HENTRIACONTANE	1700	JX
SS1721	630-05-	TRITRIACONTANE	530	JX
SS1721	83-48-	STIGMASTEROL	420	JX
SS1721	559-70-	BETA-AMYRIN	450	JX
		TOTAL UNKNOWN TICS:	10320	
		TOTAL TICS	21300	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS173
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS173	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SS173	57-10-	HEXADECANOIC ACID	900	JX
SS173	60-33-	9,12-OCTADECADIENOIC ACID	340	JX
SS173	661-19-	1-DOCOSANOL W/ PENTACOSANE	730	JX
SS173	593-49-	HEPTACOSANE	550	JX
SS173	506-51-	1-TETRACOSANOL	600	JX
SS173	630-03-	NONACOSANE	1600	JX
SS173	506-52-	1-HEXACOSANOL	410	JX
SS173	630-04-	HENTRIACONTANE	1300	JX
SS173	1058-61-	STIGMAST-4-EN-3-ONE	290	JX
		TOTAL UNKNOWN TICS:	7160	
		TOTAL TICS	18480	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS174
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS174	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6100	BJ
SS174	57-10-	HEXADECANOIC ACID	1000	JX
SS174	629-99-	PENTACOSANE	410	JX
SS174	593-49-	HEPTACOSANE	780	JX
SS174	630-02-	OCTACOSANE	390	JX
SS174	630-03-	NONACOSANE	1200	JX
SS174	506-52-	1-HEXACOSANOL	5400	JX
SS174	630-04-	HENTRIACONTANE	1300	JX
SS174	57-88-	CHOLESTEROL	280	JX
SS174	630-05-	TRITRIACONTANE	250	JX
SS174	83-48-	STIGMASTEROL	360	JX
SS174	1058-61-	STIGMAST-4-EN-3-ONE	940	JX
		TOTAL UNKNOWN TICS:	6420	
		TOTAL TICS	24830	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS175
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS175	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6900	BJ
SS175	57-10-	HEXADECANOIC ACID	1500	JX
SS175	661-19-	1-DOCOSANOL W/ PENTACOSANE	600	JX
SS175	593-49-	HEPTACOSANE	810	JX
SS175	630-02-	OCTACOSANE	580	JX
SS175	630-03-	NONACOSANE	2100	JX
SS175	506-52-	1-HEXACOSANOL	1200	JX
SS175	630-04-	HENTRIACONTANE	1800	JX
SS175	630-05-	TRITRIACONTANE	420	JX
SS175	83-48-	STIGMASTEROL	470	JX
SS175	1058-61-	STIGMAST-4-EN-3-ONE	1100	JX
		TOTAL UNKNOWN TICS:	7610	
		TOTAL TICS	25090	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS176
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS176	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	8200	BJ
SS176	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	110	JX
SS176	629-78-	HEPTADECANE	87	JX
SS176	593-45-	OCTADECANE	100	JX
SS176	629-92-	NONADECANE	110	JX
SS176	112-95-	EICOSANE	110	JX
SS176	629-94-	HENEICOSANE	110	JX
SS176	629-99-	PENTACOSANE	140	JX
SS176	593-49-	HEPTACOSANE	160	JX
SS176	630-03-	NONACOSANE	270	JX
SS176	630-04-	HENTRIACONTANE	190	JX
		TOTAL UNKNOWN TICS:	359	
		TOTAL TICS	9946	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS177
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS177	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SS177	57-10-	HEXADECANOIC ACID	790	JX
SS177	629-99-	PENTACOSANE W/ 1-DOCOSANOL	390	JX
SS177	593-49-	HEPTACOSANE	470	JX
SS177	630-03-	NONACOSANE	940	JX
SS177	506-52-	1-HEXACOSANOL	780	JX
SS177	630-04-	HENTRIACONTANE	1100	JX
SS177	83-48-	STIGMASTEROL	310	JX
SS177	1058-61-	STIGMAST-4-EN-3-ONE	310	JX
		TOTAL UNKNOWN TICS:	6590	
		TOTAL TICS	16280	

SDG FILE: temp\1F40319 DATE: MATRIX:
ES: SS178
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS178	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6900	BJ
SS178	57-10-	HEXADECANOIC ACID	790	JX
SS178	629-99-	PENTACOSANE W/ 1-DOCOSANOL	170	JX
SS178	593-49-	HEPTACOSANE	220	JX
SS178	630-03-	NONACOSANE	630	JX
SS178	506-52-	1-HEXACOSANOL	300	JX
SS178	630-04-	HENTRIACONTANE	780	JX
SS178	57-88-	CHOLESTEROL	170	JX
SS178	83-48-	STIGMASTEROL	160	JX
SS178	559-70-	BETA-AMYRIN	260	JX
SS178	559-74-	FRIEDELIN	150	JX
		TOTAL UNKNOWN TICS:	3880	
		TOTAL TICS	14410	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1713
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1713	123-42-2	2-Pentanone, 4-hydroxy-4-met	5400	NJ
SS1713	629-78-7	Heptadecane	75	NJ
SS1713	112-95-8	Eicosane w/halogenated compo	90	NJ
SS1713	646-31-1	Tetracosane	76	NJ
SS1713	593-49-7	Heptacosane	83	NJ
SS1713	630-03-5	Nonacosane	240	NJ
SS1713	630-04-6	Hentriacontane	180	NJ
		TOTAL UNKNOWN TICS:	466	
		TOTAL TICS	6610	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS1715
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS1715	123-42-2	2-Pentanone, 4-hydroxy-4-met	5400	NJ
SS1715	630-03-5	Nonacosane	180	NJ
		TOTAL UNKNOWN TICS:	1194	
		TOTAL TICS	6774	

SDG FILE: temp\1F40299 DATE: MATRIX:
ES: SS179
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS179	123-42-2	2-Pentanone, 4-hydroxy-4-met	5200	NJ
SS179	629-59-4	Tetradecane	74	NJ
SS179	629-62-9	Pentadecane	99	NJ
SS179	544-76-3	Hexadecane	98	NJ
SS179	629-78-7	Heptadecane	130	NJ
SS179	593-45-3	Octadecane	110	NJ
SS179	629-92-5	Nonadecane	110	NJ
SS179	112-95-8	Eicosane w/halogenated compo	120	NJ
SS179	629-94-7	Heneicosane	88	NJ
SS179	629-97-0	Docosane	120	NJ
SS179	638-67-5	Tricosane	120	NJ
SS179	646-31-1	Tetracosane	99	NJ
SS179	629-99-2	Pentacosane	140	NJ
SS179	593-49-7	Heptacosane	97	NJ
SS179	630-03-5	Nonacosane	220	NJ
SS179	630-04-6	Hentriacontane	130	NJ
		TOTAL UNKNOWN TICS:	451	
		TOTAL TICS	7406	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SB172.1
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	7	
		TOTAL TICS	7	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SB172_1
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
B172_1	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5100	BJ
B172_1	661-19-	1-DOCOSANOL W/ PENTACOSANE	120	JX
B172_1	593-49-	HEPTACOSANE	100	JX
B172_1	506-51-	1-TETRACOSANOL	120	JX
B172_1	630-03-	NONACOSANE	520	JX
B172_1	506-52-	1-HEXACOSANOL	160	JX
B172_1	630-04-	HENTRIACONTANE	500	JX
B172_1	630-05-	TRITRIACONTANE	140	JX
		TOTAL UNKNOWN TICS:	260	
		TOTAL TICS	7020	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SB172_2
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
B172_2	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6500	BJ
		TOTAL UNKNOWN TICS:	523	
		TOTAL TICS	7023	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1711
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1711	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3400	BJ
SB1711	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	160	JX
SB1711	1002-84-	PENTADECANOIC ACID	130	JX
SB1711	57-10-	HEXADECANOIC ACID	420	JX
SB1711	629-99-	PENTACOSANE	180	BJ
SB1711	661-19-	1-DOCOSANOL	210	JX
SB1711	630-01-	HEXACOSANE	180	BJ
SB1711	593-49-	HEPTACOSANE	520	BJ
SB1711	506-51-	1-TETRACOSANOL	250	JX
SB1711	630-02-	OCTACOSANE	320	BJ
SB1711	630-03-	NONACOSANE	1400	BJ
SB1711	506-52-	1-HEXACOSANOL	180	JX
SB1711	638-68-	TRIACONTANE	270	BJ
SB1711	630-04-	HENTRIACONTANE	1300	BJ
SB1711	630-05-	TRITRIACONTANE	300	BJ
		TOTAL UNKNOWN TICS:	1290	
		TOTAL TICS	10510	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1712
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1712	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5700	BJ
SB1712	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	150	JX
SB1712	629-99-	PENTACOSANE	80	BJ
SB1712	630-01-	HEXACOSANE	96	BJ
SB1712	593-49-	HEPTACOSANE	130	BJ
SB1712	630-02-	OCTACOSANE	110	BJ
SB1712	630-03-	NONACOSANE	190	BJ
SB1712	638-68-	TRIACONTANE	100	BJ
SB1712	630-04-	HENTRIACONTANE	110	BJ
		TOTAL UNKNOWN TICS:	400	
		TOTAL TICS	7066	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1713
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1713	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2900	BJ
SB1713	646-31-	TETRACOSANE	76	BJ
SB1713	629-99-	PENTACOSANE	130	BJ
SB1713	630-01-	HEXACOSANE	160	BJ
SB1713	593-49-	HEPTACOSANE	190	BJ
SB1713	630-02-	OCTACOSANE	170	BJ
SB1713	630-03-	NONACOSANE	230	BJ
SB1713	638-68-	TRIACONTANE	160	BJ
SB1713	630-04-	HENTRIACONTANE	130	BJ
		TOTAL UNKNOWN TICS:	186	
		TOTAL TICS	4332	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1731
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1731	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4400	BJ
SB1731	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	110	JX
SB1731	57-10-	HEXADECANOIC ACID	300	JX
SB1731	593-49-	HEPTACOSANE	230	JX
SB1731	506-51-	1-TETRACOSANOL	120	JX
SB1731	630-02-	OCTACOSANE	110	JX
SB1731	630-03-	NONACOSANE	550	JX
SB1731	506-52-	1-HEXACOSANOL	130	JX
SB1731	630-04-	HENTRIACONTANE	430	JX
		TOTAL UNKNOWN TICS:	935	
		TOTAL TICS	7315	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1732
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1732	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SB1732	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	94	JX
SB1732	629-99-	PENTACOSANE	130	JX
SB1732	630-01-	HEXACOSANE	230	JX
SB1732	593-49-	HEPTACOSANE	310	JX
SB1732	630-02-	OCTACOSANE	280	JX
SB1732	630-03-	NONACOSANE	370	JX
SB1732	638-68-	TRIACONTANE	180	JX
SB1732	630-04-	HENTRIACONTANE	160	JX
		TOTAL UNKNOWN TICS:	450	
		TOTAL TICS	6804	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1741
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1741	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4800	BJ
SB1741	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	130	JX
SB1741	57-10-	HEXADECANOIC ACID	99	JX
SB1741	638-67-	TRICOSANE	87	JX
SB1741	646-31-	TETRACOSANE W/ UNKNOWN	91	JX
SB1741	629-99-	PENTACOSANE	150	JX
SB1741	661-19-	1-DOCOSANOL	87	JX
SB1741	630-01-	HEXACOSANE	230	JX
SB1741	593-49-	HEPTACOSANE	350	JX
SB1741	506-51-	1-TETRACOSANOL	250	JX
SB1741	630-02-	OCTACOSANE	290	JX
SB1741	630-03-	NONACOSANE	460	JX
SB1741	638-68-	TRIACONTANE	190	JX
SB1741	630-04-	HENTRIACONTANE	230	JX
		TOTAL UNKNOWN TICS:	810	
		TOTAL TICS	8254	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB1742
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB1742	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3000	BJ
SB1742	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	170	JX
SB1742	57-10-	HEXADECANOIC ACID	100	JX
SB1742	646-31-	TETRACOSANE W/ UNKNOWN	98	JX
SB1742	629-99-	PENTACOSANE	190	JX
SB1742	630-01-	HEXACOSANE	360	JX
SB1742	593-49-	HEPTACOSANE	460	JX
SB1742	630-02-	OCTACOSANE	420	JX
SB1742	630-03-	NONACOSANE	530	JX
SB1742	638-68-	TRIACONTANE	250	JX
SB1742	630-04-	HENTRIACONTANE	320	JX
SB1742	630-05-	TRITRIACONTANE	94	JX
		TOTAL UNKNOWN TICS:	680	
		TOTAL TICS	6672	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SB172_10
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
172_10	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6400	BJ
		TOTAL UNKNOWN TICS:	290	
		TOTAL TICS	6690	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW172
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW172	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	15	BJ
MW172	57-10-	HEXADECANOIC ACID	2	BJ
MW172	630-01-	HEXACOSANE	4	JX
MW172	593-49-	HEPTACOSANE	5	JX
MW172	630-02-	OCTACOSANE	5	JX
MW172	630-03-	NONACOSANE	8	JX
MW172	638-68-	TRIACONTANE	5	JX
		TOTAL UNKNOWN TICS:	14	
		TOTAL TICS	58	

SEAD-24

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 24

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS2410
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS2410	80-56-8	.alpha.-Pinene	91	NJ
SS2410	127-91-3	.beta.-Pinene	35	NJ
SS2410	138-86-3	Limonene	58	NJ
		TOTAL UNKNOWN TICS:	9	
		TOTAL TICS	193	

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS2411
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	43	
		TOTAL TICS	43	

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS2412
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	46	
		TOTAL TICS	46	

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS2413
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	45	
		TOTAL TICS	45	

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS246
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS246	75-18-3	Dimethyl sulfide	12	NJ
		TOTAL UNKNOWN TICS:	44	
		TOTAL TICS	56	

SDG FILE: temp\1E40322 DATE: MATRIX:
ES: SS247
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	23	
		TOTAL TICS	23	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS241
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS241	123-42-2	2-Pentanone, 4-hydroxy-4-met	6400	NJ
SS241	57-10-3	Hexadecanoic acid	96	NJ
SS241	239-35-0	Benzo[b]naphtho[2,1-d]thioph	97	NJ
SS241	629-99-2	Pentacosane w/C12H14 PAH	190	NJ
SS241	593-49-7	Heptacosane	1900	NJ
SS241	192-97-2	Benzo[e]pyrene	460	NJ
SS241	630-03-5	Nonacosane	1600	NJ
SS241	630-06-8	Hentriacontane w/C22H14 PAH	480	NJ
		TOTAL UNKNOWN TICS:	1908	
		TOTAL TICS	13131	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS2410
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS2410	123-42-2	2-Pentanone, 4-hydroxy-4-met	7300	NJ
SS2410	80-56-8	.alpha.-Pinene	150	NJ
SS2410	127-91-3	.beta.-Pinene	190	NJ
SS2410	629-99-2	Pentacosane	160	NJ
SS2410	593-49-7	Heptacosane	1000	NJ
SS2410	630-03-5	Nonacosane	760	NJ
SS2410	630-04-6	Hentriacontane	120	NJ
		TOTAL UNKNOWN TICS:	928	
		TOTAL TICS	10608	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS2411
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS2411	123-42-2	2-Pentanone, 4-hydroxy-4-met	6400	NJ
SS2411	646-31-1	Tetracosane	160	NJ
SS2411	629-99-2	Pentacosane	440	NJ
SS2411	630-01-3	Hexacosane	98	NJ
SS2411	593-49-7	Heptacosane	2300	NJ
SS2411	630-02-4	Octacosane	92	NJ
SS2411	630-03-5	Nonacosane	460	NJ
SS2411	630-04-6	Hentriacontane	95	NJ
		TOTAL UNKNOWN TICS:	1994	
		TOTAL TICS	12039	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS2412
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS2412	123-42-2	2-Pentanone, 4-hydroxy-4-met	8200	NJ
SS2412	127-91-3	.beta.-Pinene	120	NJ
SS2412	57-10-3	Hexadecanoic acid	190	NJ
SS2412	629-99-2	Pentacosane	180	NJ
SS2412	630-01-3	Hexacosane	1200	NJ
SS2412	630-02-4	Octacosane	140	NJ
SS2412	630-03-5	Nonacosane	1100	NJ
SS2412	630-04-6	Hentriacontane	340	NJ
		TOTAL UNKNOWN TICS:	1760	
		TOTAL TICS	13230	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS2413
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS2413	123-42-2	2-Pentanone, 4-hydroxy-4-met	18000	NJ
SS2413	593-49-7	Heptacosane	790	NJ
SS2413	630-03-5	Nonacosane	930	NJ
		TOTAL UNKNOWN TICS:	3230	
		TOTAL TICS	22950	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS242
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS242	123-42-2	2-Pentanone, 4-hydroxy-4-met	7000	NJ
SS242	593-49-7	Heptacosane	400	NJ
SS242	630-03-5	Nonacosane	310	NJ
SS242	630-04-6	Hentriacontane	92	NJ
		TOTAL UNKNOWN TICS:	485	
		TOTAL TICS	8287	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS243
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS243	123-42-2	2-Pentanone, 4-hydroxy-4-met	5900	NJ
SS243	593-49-7	Heptacosane	550	NJ
SS243	630-03-5	Nonacosane	590	NJ
SS243	630-04-6	Hentriacontane	170	NJ
		TOTAL UNKNOWN TICS:	252	
		TOTAL TICS	7462	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS244
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS244	123-42-2	2-Pentanone, 4-hydroxy-4-met	6600	NJ
SS244	5932-49-7	Heptacosane	500	NJ
		TOTAL UNKNOWN TICS:	2902	
		TOTAL TICS	10002	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS245
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS245	123-42-2	2-Pentanone, 4-hydroxy-4-met	20000	NJ
SS245	593-49-7	Heptacosane	1300	NJ
SS245	630-03-5	Nonacosane	720	NJ
		TOTAL UNKNOWN TICS:	840	
		TOTAL TICS	22860	

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS246
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS246	123-42-2	2-Pentanone, 4-hydroxy-4-met	7300	NJ
SS246	57-10-3	Hexadecanoic acid	140	NJ
SS246	629-99-2	Pentacosane	160	NJ
SS246	593-49-7	Heptacosane	1200	NJ
SS246	630-02-4	Octacosane	120	NJ
SS246	630-03-5	Nonacosane	1100	NJ
SS246	630-04-6	Hentriacontane	320	NJ

TOTAL UNKNOWN TICS: 2008
TOTAL TICS 12348

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS247
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS247	123-42-2	2-Pentanone, 4-hydroxy-4-met	6300	NJ
SS247	593-49-7	Heptacosane	190	NJ
SS247	630-03-05	Nonacosane	270	NJ

TOTAL UNKNOWN TICS: 1041
TOTAL TICS 7801

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS248
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS248	123-42-2	2-Pentanone, 4-hydroxy-4-met	7100	NJ
SS248	629-99-2	Pentacosane w/unknown	110	NJ
SS248	593-49-7	Heptacosane	260	NJ
SS248	630-03-5	Nonacosane	320	NJ

TOTAL UNKNOWN TICS: 520
TOTAL TICS 8310

SDG FILE: temp\1F40322 DATE: MATRIX:
ES: SS249
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS249	123-42-2	2-Pentanone, 4-hydroxy-4-met	10000	NJ
SS249	593-49-7	Heptacosane	740	NJ
SS249	630-03-5	Nonacosane	660	NJ
SS249	630-04-6	Hentriacontane	170	NJ

TOTAL UNKNOWN TICS: 1210
TOTAL TICS 12780

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2411
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2411	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	9	BJ
SB2411	791-28-	PHOSPHINE OXIDE, TRIPHENYL-	3	BJ

TOTAL UNKNOWN TICS: 4
TOTAL TICS 16

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2411
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2411	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3800	BJ
SB2411	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	98	JX
SB2411	57-10-	HEXADECANOIC ACID	81	JX
SB2411	593-49-	HEPTACOSANE	130	BJ
SB2411	630-02-	OCTACOSANE	98	BJ
SB2411	630-03-	NONACOSANE	360	BJ
SB2411	638-68-	TRIACONTANE	160	BJ
SB2411	630-04-	HENTRIACONTANE	360	BJ
SB2411	544-85-	DOTRIACONTANE	170	BJ
SB2411	630-05-	TRITRIACONTANE	220	BJ
SB2411	14167-59-	TETRATRIACONTANE	130	BJ
SB2411	630-07-	PENTATRIACONTANE	130	BJ

TOTAL UNKNOWN TICS: 974
TOTAL TICS 6711

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2413
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2413	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4600	BJ
SB2413	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	360	JX
SB2413	630-03-	NONACOSANE	150	BJ
SB2413	638-68-	TRIACONTANE W/ UNKNOWN	82	BJ
SB2413	630-04-	HENTRIACONTANE	120	BJ

TOTAL UNKNOWN TICS: 948
TOTAL TICS 6260

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2415
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2415	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2700	BJ
SB2415	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	130	JX
SB2415	646-31-	TETRACOSANE	85	BJ
SB2415	629-99-	PENTACOSANE	160	BJ
SB2415	630-01-	HEXACOSANE	270	BJ
SB2415	593-49-	HEPTACOSANE	360	BJ
SB2415	630-02-	OCTACOSANE	330	BJ
SB2415	630-03-	NONACOSANE	400	BJ
SB2415	638-68-	TRIACONTANE	230	BJ
SB2415	630-04-	HENTRIACONTANE	150	BJ
		TOTAL UNKNOWN TICS:	390	
		TOTAL TICS	5205	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2417
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2417	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6100	BJ
SB2417	593-49-	HEPTACOSANE	85	BJ
SB2417	630-03-	NONACOSANE	160	BJ
SB2417	638-68-	TRIACONTANE	120	BJ
SB2417	630-04-	HENTRIACONTANE	150	BJ
SB2417	544-85-	DOTRIACONTANE	130	BJ
SB2417	630-05-	TRITRIACONTANE	130	BJ
SB2417	14167-59-	TETRATRIACONTANE	100	BJ
SB2417	630-07-	PENTATRIACONTANE W/ UNKNOWN	82	BJ
		TOTAL UNKNOWN TICS:	110	
		TOTAL TICS	7167	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2417RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2417RE	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3800	BJ
SB2417RE	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	98	JX
SB2417RE	57-10-	HEXADECANOIC ACID	98	JX
SB2417RE	593-49-	HEPTACOSANE	98	JX
SB2417RE	630-03-	NONACOSANE	560	JX
SB2417RE	630-04-	HENTRIACONTANE	300	JX
SB2417RE	630-05-	TRITRIACONTANE	90	JX
		TOTAL UNKNOWN TICS:	680	
		TOTAL TICS	5724	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2421
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2421	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4200	BJ
SB2421	630-01-	HEXACOSANE	86	BJ
SB2421	593-49-	HEPTACOSANE	150	BJ
SB2421	630-02-	OCTACOSANE	86	BJ
SB2421	630-03-	NONACOSANE	140	BJ
		TOTAL UNKNOWN TICS:	177	
		TOTAL TICS	4839	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2421RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2421RE	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5100	BJ
SB2421RE	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	130	JX
SB2421RE	57-10-	HEXADECANOIC ACID	160	JX
SB2421RE	629-99-	PENTACOSANE	110	JX
SB2421RE	630-01-	HEXACOSANE	160	JX
SB2421RE	593-49-	HEPTACOSANE	350	JX
SB2421RE	630-02-	OCTACOSANE	240	JX
SB2421RE	630-03-	NONACOSANE	620	JX
SB2421RE	638-68-	TRIACONTANE	180	JX
SB2421RE	630-04-	HENTRIACONTANE	280	JX
		TOTAL UNKNOWN TICS:	770	
		TOTAL TICS	8100	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2423
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2423	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3500	BJ
SB2423	74781-40-	PROPANOIC ACID, 2-METHYL-, 1	96	JX
SB2423	638-67-	TRICOSANE	92	JX
SB2423	646-31-	TETRACOSANE	88	BJ
SB2423	629-99-	PENTACOSANE	120	BJ
SB2423	630-01-	HEXACOSANE	110	BJ
SB2423	593-49-	HEPTACOSANE	140	BJ
SB2423	630-02-	OCTACOSANE	77	BJ
SB2423	630-03-	NONACOSANE	100	BJ
		TOTAL UNKNOWN TICS:	330	
		TOTAL TICS	4653	

SDG FILE: temp\1F40907 DATE: MATRIX:
ES: SB2423RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2423RE	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3500	BJ
SB2423RE	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	210	JX
SB2423RE	629-99-	PENTACOSANE	110	JX
SB2423RE	630-01-	HEXACOSANE	140	JX
SB2423RE	593-49-	HEPTACOSANE	180	JX
SB2423RE	630-02-	OCTACOSANE	150	JX
SB2423RE	630-03-	NONACOSANE	210	JX
SB2423RE	638-68-	TRIACONTANE W/ UNKNOWN ALIPH	81	JX
SB2423RE	630-04-	HENTRIACONTANE	92	JX
		TOTAL UNKNOWN TICS:	560	
		TOTAL TICS	5233	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2424
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2424	123-42-2	2-Pentanone, 4-hydroxy-4-met	9400	NJ
SB2424	593-49-7	Heptacosane	75	NJ
SB2424	630-03-5	Nonacosane	160	NJ
SB2424	638-68-6	Triacontane	79	NJ
		TOTAL UNKNOWN TICS:	90	
		TOTAL TICS	9804	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2431
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2431	123-42-2	2-Pentanone, 4-hydroxy-4-met	9600	NJ
SB2431	629-99-2	Pentacosane	140	NJ
SB2431	593-49-7	Heptacosane	300	NJ
SB2431	630-02-4	Octacosane	250	NJ
SB2431	630-03-5	Nonacosane	1000	NJ
SB2431	638-68-6	Triacontane	230	NJ
SB2431	630-04-6	Hentriacontane	950	NJ
SB2431	630-05-7	Tritriacontane	230	NJ
		TOTAL UNKNOWN TICS:	220	
		TOTAL TICS	12920	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2433
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2433	123-42-2	2-Pentanone, 4-hydroxy-4-met	8400	NJ
SB2433	629-99-2	Pentacosane	82	NJ
SB2433	593-49-7	Heptacosane	140	NJ
SB2433	630-02-4	Octacosane	170	NJ
SB2433	630-03-5	Nonacosane	300	NJ
SB2433	638-68-6	Triacontane	110	NJ
SB2433	630-04-6	Hentriacontane	230	NJ

TOTAL UNKNOWN TICS: 130
TOTAL TICS 9562

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2435
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2435	123-42-2	2-Pentanone, 4-hydroxy-4-met	7900	NJ
SB2435	646-31-1	Tetracosane	77	NJ
SB2435	629-99-2	Pentacosane	150	NJ
SB2435	593-49-7	Heptacosane	250	NJ
SB2435	630-02-4	Octacosane	250	NJ
SB2435	630-03-5	Nonacosane	500	NJ
SB2435	638-68-6	Triacontane	250	NJ
SB2435	630-04-6	Hentriacontane	200	NJ

TOTAL UNKNOWN TICS: 170
TOTAL TICS 9747

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2441
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2441	3142-66-3	2-Pentanone, 4-hydroxy-4-met	9600	NJ
SB2441	630-03-5	Nonacosane	140	NJ

TOTAL UNKNOWN TICS: 236
TOTAL TICS 9976

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2444
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2444	123-42-2	2-Pentanone, 4-hydroxy-4-met	9700	NJ

TOTAL UNKNOWN TICS: 370
TOTAL TICS 10070

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2447
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2447	123-42-2	2-Pentanone, 4-hydroxy-4-met	8800	NJ
SB2447	646-31-1	Tetracosane	80	NJ
SB2447	629-99-2	Pentacosane	150	NJ
SB2447	630-01-3	Hexacosane	230	NJ
SB2447	593-49-7	Heptacosane	260	NJ
SB2447	630-02-4	Octacosane	210	NJ
SB2447	630-03-5	Nonacosane	470	NJ
SB2447	638-68-6	Triacontane	230	NJ
SB2447	630-04-6	Hentriacontane	140	NJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 10570

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2451
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2451	123-42-2	2-Pentanone, 4-hydroxy-4-met	9500	NJ
SB2451	593-49-7	Heptacosane	89	NJ
SB2451	630-02-4	Octacosane	120	NJ
SB2451	630-03-5	Nonacosane	180	NJ
SB2451	630-04-6	Hentriacontane	89	NJ

TOTAL UNKNOWN TICS: 500
TOTAL TICS 10478

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2453
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2453	123-42-2	2-Pentanone, 4-hydroxy-4-met	9000	NJ
SB2453	629-99-2	Pentacosane	88	NJ
SB2453	593-49-7	Heptacosane	150	NJ
SB2453	630-02-4	Octacosane	180	NJ
SB2453	630-03-5	Nonacosane	290	NJ
SB2453	638-68-6	Triacontane	120	NJ
SB2453	630-04-6	Hentriacontane	120	NJ

TOTAL UNKNOWN TICS: 708
TOTAL TICS 10656

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2455
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2455	123-42-2	2-Pentanone, 4-hydroxy-4-met	8400	NJ
SB2455	646-31-1	Tetracosane	86	NJ
SB2455	629-99-2	Pentacosane	160	NJ
SB2455	593-49-7	Heptacosane	280	NJ
SB2455	630-02-4	Octacosane	350	NJ
SB2455	630-03-5	Nonacosane	560	NJ
SB2455	638-68-6	Triacontane	280	NJ
SB2455	630-04-6	Hentriacontane	190	NJ
		TOTAL UNKNOWN TICS:	2600	
		TOTAL TICS	12906	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW242
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW242	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	12	BJ
MW242	544-76-	HEXADECANE	4	JX
MW242	629-78-	HEPTADECANE	8	JX
MW242	1921-70-	PENTADECANE, 2,6,10,14-TETRA	3	JX
MW242	593-45-	OCTADECANE	10	JX
MW242	629-92-	NONADECANE	12	JX
MW242	112-95-	EICOSANE	7	JX
		TOTAL UNKNOWN TICS:	54	
		TOTAL TICS	110	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW243
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW243	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	9	BJ
MW243	629-99-	PENTACOSANE	8	JX
MW243	630-01-	HEXACOSANE	8	JX
MW243	593-49-	HEPTACOSANE	7	JX
MW243	630-02-	OCTACOSANE	5	JX
MW243	630-03-	NONACOSANE	7	JX
		TOTAL UNKNOWN TICS:	79	
		TOTAL TICS	123	

SEAD-25

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 25

SDG FILE: temp\1E41097 DATE: MATRIX:
ES: SB2522
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2522	124-18-5	Decane	100	NJ
SB2522	108-67-8	Benzene, 1,3,5-trimethyl-	20	NJ
SB2522	611-14-3	Benzene, 1-ethyl-2-methyl-	18	NJ
SB2522	95-63-6	Benzene, 1,2,4-trimethyl-	63	NJ
SB2522	135-98-8	Benzene, (1-methylpropyl)- w	56	NJ

TOTAL UNKNOWN TICS: 141
TOTAL TICS 398

SDG FILE: temp\1E41097 DATE: MATRIX:
ES: SB2523
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2523	111-84-2	Nonane	56	NJ
SB2523	124-18-5	Decane	280	NJ
SB2523	108-67-8	Benzene, 1,3,5-trimethyl-	94	NJ
SB2523	611-14-3	Benzene, 1-ethyl-2-methyl-	65	NJ
SB2523	95-63-6	Benzene, 1,2,4-trimethyl-	240	NJ
SB2523	135-98-8	Benzene, (1-methylpropyl)- w	110	NJ

TOTAL UNKNOWN TICS: 317
TOTAL TICS 1162

SDG FILE: temp\1E41097 DATE: MATRIX:
ES: SB2531
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2531	111-84-2	Nonane	730	NJ
SB2531	124-18-5	Decane	2100	NJ
SB2531	95-63-6	Benzene, 1,2,4-trimethyl-	1400	NJ
SB2531	1678-93-9	Cyclohexane, butyl-	580	NJ

TOTAL UNKNOWN TICS: 3750
TOTAL TICS 8560

SDG FILE: temp\1E41097 DATE: MATRIX:
ES: SB2532 LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2532	124-18-5	Decane	13	NJ
SB2532	108-67-8	Benzene, 1,3,5-trimethyl-	19	NJ
SB2532	611-14-3	Benzene, 1-ethyl-2-methyl-	13	NJ
SB2532	95-63-6	Benzene, 1,2,4-trimethyl-	61	NJ

TOTAL UNKNOWN TICS: 34
TOTAL TICS 140

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2533
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2533	96-37-	CYCLOPENTANE, METHYL-	36	JX
SB2533	107-83-	PENTANE, 2-METHYL-	30	JX
SB2533	110-54-	HEXANE	25	JX
SB2533	108-87-	CYCLOHEXANE, METHYL-	32	JX
SB2533	589-34-	HEXANE, 3-METHYL-	49	JX
SB2533	591-76-	HEXANE, 2-METHYL-	38	JX
SB2533	592-27-	HEPTANE, 2-METHYL-	19	JX
SB2533	1678-92-	CYCLOHEXANE, PROPYL- W/ UNKN	14	JX

TOTAL UNKNOWN TICS: 33
TOTAL TICS 276

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2541
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2541	589-81-	HEPTANE, 3-METHYL-	1300	JX
SB2541	592-27-	HEPTANE, 2-METHYL-	830	JX
SB2541	1678-92-	CYCLOHEXANE, PROPYL- W/ UNKN	1400	JX

TOTAL UNKNOWN TICS: 2500
TOTAL TICS 6030

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2542
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2542	107-83-	PENTANE, 2-METHYL-	7	JX
SB2542	565-59-	PENTANE, 2,3-DIMETHYL-	8	JX
SB2542	589-34-	HEXANE, 3-METHYL-	15	JX
SB2542	591-76-	HEXANE, 2-METHYL-	7	JX
SB2542	1186-53-	PENTANE, 2,2,3,4-TETRAMETHYL	12	JX
SB2542	589-81-	HEPTANE, 3-METHYL-	13	JX

TOTAL UNKNOWN TICS: 76
TOTAL TICS 138

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2543
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2543	107-83-	PENTANE, 2-METHYL-	21	JX
SB2543	108-87-	CYCLOHEXANE, METHYL-	18	JX
SB2543	589-34-	HEXANE, 3-METHYL-	28	JX
SB2543	591-76-	HEXANE, 2-METHYL-	15	JX
SB2543	589-81-	HEPTANE, 3-METHYL-	30	JN
SB2543	592-27-	HEPTANE, 2-METHYL-	13	JX
		TOTAL UNKNOWN TICS:	78	
		TOTAL TICS	203	

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2551
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2551	110-82-	CYCLOHEXANE	1600	JX
SB2551	96-37-	CYCLOPENTANE, METHYL-	3600	JX
SB2551	96-14-	PENTANE, 3-METHYL-	3300	JX
SB2551	107-83-	PENTANE, 2-METHYL-	4000	JX
SB2551	110-54-	HEXANE	4100	JX
SB2551	589-34-	HEXANE, 3-METHYL-	4500	JX
SB2551	591-76-	HEXANE, 2-METHYL-	3500	JX
SB2551	1186-53-	PENTANE, 2,2,3,4-TETRAMETHYL	2100	JX
SB2551	589-81-	HEPTANE, 3-METHYL- W/ TCL#35	4400	JX
SB2551	592-27-	HEPTANE, 2-METHYL-	3100	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	34200	

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2552
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2552	96-37-	CYCLOPENTANE, METHYL-	13000	JX
SB2552	96-14-	PENTANE, 3-METHYL-	14000	JX
SB2552	107-83-	PENTANE, 2-METHYL-	17000	JX
SB2552	110-54-	HEXANE	20000	JX
SB2552	589-34-	HEXANE, 3-METHYL-	21000	JX
SB2552	591-76-	HEXANE, 2-METHYL-	18000	JX
SB2552	142-82-	HEPTANE W/ TCL#33	24000	JX
SB2552	589-81-	HEPTANE, 3-METHYL- W/ TCL#35	34000	JX
SB2552	592-27-	HEPTANE, 2-METHYL-	19000	JX
SB2552	111-65-	OCTANE W/ SSTD BFB	27000	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	207000	

SDG FILE: temp\1E41115 DATE: MATRIX:
ES: SB2553
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2553	107-83-	PENTANE, 2-METHYL-	740	JX
SB2553	110-54-	HEXANE	970	JX
SB2553	589-34-	HEXANE, 3-METHYL-	1100	JX
SB2553	591-76-	HEXANE, 2-METHYL-	990	JX
SB2553	589-81-	HEPTANE, 3-METHYL- W/ TCL#35	2200	JX
SB2553	592-27-	HEPTANE, 2-METHYL-	1300	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	7300	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2511
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2511	123-42-2	2-Pentanone, 4-hydroxy-4-met	13000	NJ
SB2511	629-50-5	Tridecane	1200	NJ
SB2511	629-59-4	Tetradecane	2200	NJ
SB2511	629-62-9	Pentadecane	3600	NJ
SB2511	544-76-3	Hexadecane	3300	NJ
SB2511	629-78-7	Heptadecane	2500	NJ
SB2511	1921-70-6	Pentadecane, 2,6,10,14-tetra	6800	NJ
SB2511	593-45-3	Octadecane	2300	NJ
SB2511	638-36-8	Hexadecane, 2,6,10,14-tetram	3400	NJ
SB2511	629-92-5	Nonadecane	2000	NJ
SB2511	112-95-8	Eicosane	1500	NJ
SB2511	629-94-7	Heneicosane	1000	NJ
		TOTAL UNKNOWN TICS:	18080	
		TOTAL TICS	60880	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2513
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2513	123-42-2	2-Pentanone, 4-hydroxy-4-met	9200	NJ
		TOTAL UNKNOWN TICS:	4734	
		TOTAL TICS	13934	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2514
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2514	123-42-2	2-Pentanone, 4-hydroxy-4-met	12000	NJ
		TOTAL UNKNOWN TICS:	8780	
		TOTAL TICS	20780	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2521
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2521	123-42-2	2-Pentanone, 4-hydroxy-4-met	11000	NJ
SB2521	629-50-5	Tridecane	480	NJ
SB2521	629-59-4	Tetradecane	780	J
SB2521	629-62-9	Pentadecane	1000	NJ
SB2521	544-76-3	Hexadecane	1000	NJ
SB2521	629-78-7	Heptadecane	930	NJ
SB2521	1921-70-6	Pentadecane, 2,6,10,14-tetra	1400	NJ
SB2521	593-45-3	Octadecane	770	NJ
SB2521	638-36-8	Hexadecane, 2,6,101,4-tetram	720	NJ
SB2521	629-92-5	Nonadecane	700	NJ
SB2521	112-95-8	Eicosane	600	NJ
SB2521	629-94-7	Heneicosane	430	NJ
		TOTAL UNKNOWN TICS:	8250	
		TOTAL TICS	28060	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2522
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2522	123-42-2	2-Pentanone, 4-hydroxy-4-met	39000	NJ
SB2522	1120-21-4	Undecane	6400	NJ
SB2522	112-40-3	Dodecane	6500	NJ
SB2522	629-50-5	Tridecane	6600	NJ
SB2522	90-12-0	Naphthalene, 1-methyl-	4800	NJ
SB2522	629-59-4	Tetradecane	6400	NJ
SB2522	575-41-7	Naphthalene, 1,3-dimethyl-	8000	NJ
SB2522	629-62-9	Pentadecane	7000	NJ
SB2522	544-76-3	Hexadecane	4500	NJ
SB2522	629-78-7	Heptadecane	4100	NJ
SB2522	1921-70-6	Pentadecane, 2,6,10,14-tetra	14000	NJ
SB2522	638-36-8	Hexadecane, 2,6,10,14-tetram	7000	NJ
		TOTAL UNKNOWN TICS:	67400	
		TOTAL TICS	181700	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2523
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2523	123-42-2	2-Pentanone, 4-hydroxy-4-met	37000	NJ
SB2523	1120-21-4	Undecane	4300	NJ
SB2523	112-40-3	Dodecane	4200	NJ
SB2523	629-50-5	Tridecane	3400	NJ
SB2523	90-12-0	Naphthalene, 1-methyl-	3500	NJ
SB2523	575-41-7	Naphthalene, 1,3-dimethyl-	5700	NJ
SB2523	629-62-9	Pentadecane	2900	NJ
SB2523	1921-70-6	Pentadecane, 2,6,10,14-tetra	13000	NJ
SB2523	638-36-8	Hexadecane, 2,6,10,14-tetram	6300	NJ
		TOTAL UNKNOWN TICS:	67300	
		TOTAL TICS	147600	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2524
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2524	123-42-2	2-Pentanone, 4-hydroxy-4-met	14000	NJ
SB2524	1120-21-4	Undecane	740	NJ
SB2524	112-40-3	Dodecane	720	NJ
SB2524	629-50-5	Tridecane	1200	NJ
SB2524	629-59-4	Tetradecane	1900	NJ
SB2524	629-62-9	Pentadecane	2600	NJ
SB2524	544-76-3	Hexadecane	2300	NJ
SB2524	629-78-7	Heptadecane	2000	NJ
SB2524	1921-70-6	Pentadecane, 2,6,10,14-tetra	2500	NJ
SB2524	593-45-3	Octadecane	1900	NJ
SB2524	638-36-8	Hexadecane, 2,6,10,14-tetram	1400	NJ
SB2524	629-92-5	Nonadecane	1700	NJ
SB2524	112-95-8	Eicosane	1400	NJ
SB2524	629-94-7	Heneicosane	960	NJ
		TOTAL UNKNOWN TICS:	15930	
		TOTAL TICS	51250	

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2531
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2531	123-42-2	2-Pentanone, 4-hydroxy-4-met	48000	NJ
SB2531	1120-21-4	Undecane	13000	NJ
SB2531	112-40-3	Dodecane	12000	NJ
SB2531	629-50-5	Tridecane	18000	NJ
SB2531	629-59-4	Tetradecane	25000	NJ
SB2531	629-62-9	Pentadecane	32000	NJ
SB2531	544-76-3	Hexadecane	30000	NJ
SB2531	629-78-7	Heptadecane	37000	NJ
SB2531	1921-70-6	Pentadecane, 2,6,10,14-tetra	26000	NJ
SB2531	593-45-3	Octadecane	30000	NJ
SB2531	638-636-8	Hexadecane, 2,6,10,14-tetram	14000	NJ
SB2531	629-92-5	Nonadecane	29000	NJ
SB2531	112-95-8	Eicosane	25000	NJ
SB2531	629-94-7	Heneicosane	20000	NJ

TOTAL UNKNOWN TICS: 88700
TOTAL TICS 447700

SDG FILE: temp\1F40197 DATE: MATRIX:
ES: SB2532
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2532	123-42-2	2-Pentanone, 4-hydroxy-4-met	12000	NJ
SB2532	593-49-7	Heptadecane	89	NJ

TOTAL UNKNOWN TICS: 8200
TOTAL TICS 20289

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2533 LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2533	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3100	BJ
SB2533	112-40-	DODECANE W/ DIMETHYLINDAN	1300	JX
SB2533	629-50-	TRIDECANE	1900	JX
SB2533	629-59-	TETRADECANE	1900	JX
SB2533	629-62-	PENTADECANE	2400	JX
SB2533	544-76-	HEXADECANE	2400	JX
SB2533	629-78-	HEPTADECANE	3200	JX
SB2533	1921-70-	PENTADECANE, 2,6,10,14-TETRA	1900	JX
SB2533	593-45-	OCTADECANE	2700	JX
SB2533	638-36-	HEXADECANE, 2,6,10,14-TETRAM	1100	JX
SB2533	629-92-	NONADECANE	2700	JX
SB2533	112-95-	EICOSANE	2300	JX
SB2533	629-94-	HENEICOSANE	1900	JX
SB2533	629-97-	DOCOSANE	1300	JX

TOTAL UNKNOWN TICS: 9000
TOTAL TICS 39100

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2541
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2541	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3600	BJ
SB2541	95-63-	BENZENE, 1,2,4-TRIMETHYL-	12000	JX
SB2541	124-18-	DECANE	10000	JX
SB2541	1120-21-	UNDECANE	11000	JX
SB2541	488-23-	BENZENE, 1,2,3,4-TETRAMETHYL	9200	JX
SB2541	112-40-	DODECANE W/ DIMETHYLINDAN	11000	JX
SB2541	90-12-	NAPHTHALENE, 1-METHYL-	11000	JX
SB2541	581-42-	NAPHTHALENE, 2,6-DIMETHYL-	12000	JX
SB2541	575-41-	NAPHTHALENE, 1,3-DIMETHYL-	15000	JX
SB2541	544-76-	HEXADECANE W/ TRIMETHYLNAPHT	11000	JX
SB2541	629-78-	HEPTADECANE	11000	JX
SB2541	1921-70-	PENTADECANE, 2,6,10,14-TETRA	45000	JX
SB2541	638-36-	HEXADECANE, 2,6,10,14-TETRAM	26000	JX
		TOTAL UNKNOWN TICS:	115800	
		TOTAL TICS	303600	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2542
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2542	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	9500	BJ
SB2542	90-12-	NAPHTHALENE, 1-METHYL-	830	JX
SB2542	581-42-	NAPHTHALENE, 2,6,-DIMETHYL-	1200	JX
SB2542	575-41-	NAPHTHALENE, 1,3-DIMETHYL-	1400	JX
SB2542	575-43-	NAPHTHALENE, 1,6-DIMETHYL-	840	JX
SB2542	629-78-	HEPTADECANE	830	JX
SB2542	1921-70-	PENTADECANE, 2,6,10,14-TETRA	5700	JX
SB2542	638-36-	HEXADECANE, 2,6,10,14-TETRAM	3100	JX
SB2542	629-99-	PENTACOSANE	770	JX
		TOTAL UNKNOWN TICS:	22450	
		TOTAL TICS	46620	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2543
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2543	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	8000	BJ
SB2543	1120-21-	UNDECANE	660	JX
SB2543	112-40-	DODECANE W/ DIMETHYLINDAN	680	JX
SB2543	90-12-	NAPHTHALENE, 1-METHYL-	620	JX
SB2543	629-59-	TETRADECANE	590	JX
SB2543	581-42-	NAPHTHALENE, 2,6-DIMETHYL-	760	JX
SB2543	575-41-	NAPHTHALENE, 1,3-DIMETHYL-	930	JX
SB2543	629-62-	PENTADECANE	750	JX
SB2543	544-76-	HEXADECANE	860	JX
SB2543	629-78-	HEPTADECANE	920	JX
SB2543	1921-70-	PENTADECANE, 2,6,10,14-TETRA	2500	JX
SB2543	593-45-	OCTADECANE	730	JX
SB2543	638-36-	HEXADECANE, 2,6,10,14-TETRAM	1400	JX
SB2543	629-92-	NONADECANE	710	JX
		TOTAL UNKNOWN TICS:	6950	
		TOTAL TICS	27060	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2551
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2551	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3500	BJ
SB2551	112-40-	DODECANE W/ DIMETHYLINDAN	32000	JX
SB2551	629-50-	TRIDECANE	49000	JX
SB2551	629-59-	TETRADECANE	54000	JX
SB2551	629-62-	PENTADECANE	69000	JX
SB2551	544-76-	HEXADECANE	69000	JX
SB2551	629-78-	HEPTADECANE	82000	JX
SB2551	1921-70-	PENTADECANE, 2,6,10,14-TETRA	63000	JX
SB2551	593-45-	OCTADECANE	61000	JX
SB2551	638-36-	HEXADECANE, 2,6,10,14-TETRAM	38000	JX
SB2551	629-92-	NONADECANE	59000	JX
SB2551	112-95-	EICOSANE	52000	JX
SB2551	629-94-	HENEICOSANE	43000	JX
SB2551	629-97-	DOCOSANE	29000	JX
		TOTAL UNKNOWN TICS:	216000	
		TOTAL TICS	919500	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2552
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2552	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5300	BJ
SB2552	620-14-	BENZENE, 1-ETHYL-3-METHYL-	1400	JX
SB2552	108-67-	BENZENE, 1,3,5-TRIMETHYL- W/	840	JX
SB2552	95-63-	BENZENE, 1,2,4-TRIMETHYL-	2400	JX
SB2552	526-73-	BENZENE, 1,2,3-TRIMETHYL-	730	JX
SB2552	1120-21-	UNDECANE	1400	JX
SB2552	112-40-	DODECANE W/ DIMETHYLINDAN	1700	JX
SB2552	629-50-	TRIDECANE	1800	JX
SB2552	629-59-	TETRADECANE	1400	JX
SB2552	629-62-	PENTADECANE	1400	JX
SB2552	544-76-	HEXADECANE	1300	JX
SB2552	629-78-	HEPTADECANE	1200	JX
SB2552	593-45-	OCTADECANE	890	JX
SB2552	629-92-	NONADECANE	920	JX
SB2552	112-95-	EICOSANE	840	JX
SB2552	629-94-	HENEICOSANE	740	JX
		TOTAL UNKNOWN TICS:	6410	
		TOTAL TICS	30670	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2553
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2553	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3700	BJ
SB2553	620-14-	BENZENE, 1-ETHYL-3-METHYL-	19000	JX
SB2553	108-67-	BENZENE, 1,3,5-TRIMETHYL- W/	12000	JX
SB2553	95-63-	BENZENE, 1,2,4-TRIMETHYL-	35000	JX
SB2553	124-18-	DECANE	10000	JX
SB2553	526-73-	BENZENE, 1,2,3-TRIMETHYL-	10000	JX
SB2553	1120-21-	UNDECANE	17000	JX
SB2553	824-22-	1H-INDENE, 2,3-DIHYDRO-4-MET	9500	JX
SB2553	112-40-	DODECANE W/ DIMETHYLINDAN	20000	JX
SB2553	629-50-	TRIDECANE	20000	JX
SB2553	629-59-	TETRADECANE	18000	JX
SB2553	629-62-	PENTADECANE	19000	JX
SB2553	544-76-	HEXADECANE	19000	JX
SB2553	629-78-	HEPTADECANE	20000	JX
SB2553	1921-70-	PENTADECANE, 2,6,10,14-TETRA	11000	JX
SB2553	593-45-	OCTADECANE	15000	JX
SB2553	629-92-	NONDECANE	15000	JX
SB2553	112-95-	EICOSANE	13000	JX
SB2553	629-94-	HENEICOSANE	11000	JX
		TOTAL UNKNOWN TICS:	20600	
		TOTAL TICS	317800	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2561
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2561	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	2700	BJ
SB2561	832-71-	PHENANTHRENE, 3-METHYL- W/ H	240	JX
SB2561	2531-84-	PHENANTHRENE, 2-METHYL- W/ H	360	JX
SB2561	832-69-	PHENANTHRENE, 1-METHYL-	99	JX
SB2561	238-84-	11H-BENZO[A]FLUORENE	180	JX
SB2561	239-35-	BENZO[B]NAPHTHO[2,1-D]THIOPH	100	JX
SB2561	630-03-	NONACOSANE	180	JX
SB2561	192-97-	BENZO[E]PYRENE	330	JX
SB2561	630-04-	HENTRIACONTANE	320	JX
SB2561	630-05-	TRITRIACONTANE	96	JX
		TOTAL UNKNOWN TICS:	1667	
		TOTAL TICS	6272	

SDG FILE: temp\1F41115 DATE: MATRIX:
ES: SB2562
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2562	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3100	BJ
SB2562	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	130	JX
		TOTAL UNKNOWN TICS:	840	
		TOTAL TICS	4070	

SDG FILE: temp\1E40798 DATE: MATRIX:
ES: MW253
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW253	78-78-	BUTANE, 2-METHYL-	56	JX
MW253	109-66-	PENTANE	36	JX
MW253	96-37-	CYCLOPENTANE, METHYL-	84	JX
MW253	79-29-	BUTANE, 2,3-DIMETHYL-	18	JX
MW253	107-83-	PENTANE, 2-METHYL-	39	JX
MW253	110-54-	HEXANE	18	JX
MW253	108-87-	CYCLOHEXANE, METHYL-	16	JX
MW253	589-34-	HEXANE, 3-METHYL-	20	JX
		TOTAL UNKNOWN TICS:	62	
		TOTAL TICS	349	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW253
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW253	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	12	BJ
MW253	611-14-	BENZENE, 1-ETHYL-2-METHYL-	8	JX
MW253	108-67-	BENZENE, 1,3,5-TRIMETHYL-	4	JX
MW253	1462-07-	CYCLOPENTENE, 1-(1-METHYLETH	7	JX
MW253	95-63-	BENZENE, 1,2,4-TRIMETHYL-	12	JX
MW253	496-11-	1H-INDENE, 2,3-DIHYDRO-	5	JX
MW253	95-93-	BENZENE, 1,2,4,5-TETRAMETHYL	3	JX
MW253	527-53-	BENZENE, 1,2,3,5-TETRAMETHYL	4	JX
MW253	824-22-	1H-INDENE, 2,3-DIHYDRO-4-MET	6	JX
MW253	544-63-	TETRADECANOIC ACID	2	JX
MW253	57-10-	HEXADECANOIC ACID	9	BJ
MW253	57-11-	OCTADECANOIC ACID	3	JX
		TOTAL UNKNOWN TICS:	61	
		TOTAL TICS	136	

SDG FILE: temp\1F40798 DATE: MATRIX:
ES: MW253RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
MW253RE	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	7	BJ
MW253RE	1462-07-	CYCLOPENTENE, 1-(1-METHYLETH	10	JX
MW253RE	57-10-	HEXADECANOIC ACID	7	JX
MW253RE	57-11-	OCTADECANOIC ACID	3	JX
		TOTAL UNKNOWN TICS:	13	
		TOTAL TICS	40	

SEAD-26

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 26

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS261
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS261	79-20-9	Acetic acid, methyl ester	10	NJ
		TOTAL UNKNOWN TICS:	127	
		TOTAL TICS	137	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS261RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS261RE	79-20-9	Acetic acid, methyl ester	13	NJ
		TOTAL UNKNOWN TICS:	114	
		TOTAL TICS	127	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS262
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	69	
		TOTAL TICS	69	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS262RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS262RE	75-18-3	Dimethyl sulfide	6	NJ
SS262RE	79-20-9	Acetic acid, methyl ester	7	NJ
		TOTAL UNKNOWN TICS:	79	
		TOTAL TICS	92	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS263
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	1047	
		TOTAL TICS	1047	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS269 LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	1161	
		TOTAL TICS	1161	

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS269DL LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	2880	
		TOTAL TICS	2880	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS261
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS261	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	19000	BJ
SS261	629-59-	TETRADECANE	23000	JX
SS261	629-62-	PENTADECANE	19000	JX
SS261	544-76-	HEXADECANE	22000	JX
SS261	629-78-	HEPTADECANE	23000	JX
SS261	1921-70-	PENTADECANE, 2,6,10,14-TETRA	90000	JX
SS261	593-45-	OCTADECANE	21000	JX
SS261	638-36-	HEXADECANE, 2,6,10,14-TETRAM	50000	JX
SS261	629-92-	NONADECANE	22000	JX
SS261	112-95-	EICOSANE	28000	JX
SS261	629-94-	HENEICOSANE	19000	JX
		TOTAL UNKNOWN TICS:	289000	
		TOTAL TICS	625000	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS262
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS262	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	38000	BJ
SS262	629-50-	TRIDECANE	6000	JX
SS262	629-59-	TETRADECANE	8000	JX
SS262	629-62-	PENTADECANE	7400	JX
SS262	544-76-	HEXADECANE	10000	JX
SS262	629-78-	HEPTADECANE	12000	JX
SS262	1921-70-	PENTADECANE, 2,6,10,14-TETRA	53000	JX
SS262	593-45-	OCTADECANE	7700	JX
SS262	638-36-	HEXADECANE, 2,6,10,14-TETRAM	46000	JX
SS262	629-92-	NONADECANE	8900	JX
SS262	112-95-	EICOSANE	7800	JX
SS262	629-94-	HENEICOSANE	6400	JX
		TOTAL UNKNOWN TICS:	73300	
		TOTAL TICS	284500	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS263
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS263	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	11000	BJ
SS263	112-40-	DODECANE	91000	JX
SS263	629-50-	TRIDECANE	10000	JX
SS263	629-59-	TETRADECANE	70000	JX
SS263	629-62-	PENTADECANE	60000	JX
SS263	544-76-	HEXADECANE	70000	JX
SS263	629-78-	HEPTADECANE	60000	JX
SS263	1921-70-	PENTADECANE, 2,6,10,14-TETRA	20000	JX
SS263	593-45-	OCTADECANE	30000	JX
SS263	638-36-	HEXADECANE, 2,6,10,14-TETRAM	20000	JX
SS263	629-92-	NONADECANE	10000	JX
SS263	112-95-	EICOSANE	78000	JX
SS263	629-94-	HENEICOSANE	50000	JX
		TOTAL UNKNOWN TICS:	463000	
		TOTAL TICS	1043000	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS264
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS264	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	7200	BJ
SS264	544-76-	HEXADECANE	280	JX
SS264	629-78-	HEPTADECANE	480	JX
SS264	1921-70-	PENTADECANE, 2,6,10,14-TETRA	260	JX
SS264	593-45-	OCTADECANE	430	JX
SS264	638-36-	HEXADECANE, 2,6,10,14-TETRAM	340	JX
SS264	629-92-	NONADECANE	460	JX
SS264	203-64-	4H-CYCLOPENTA[DEF]PHENANTHRE	380	JX
SS264	112-95-	EICOSANE	420	JX
SS264	629-94-	HENEICOSANE	380	JX
SS264	629-97-	DOCOSANE	320	JX
SS264	638-67-	TRICOSANE	310	JX
SS264	238-84-	11H-BENZO[A]FLUORENE	430	JX
SS264	629-99-	PENTACOSANE W/ BENZO[C]PHENA	280	JX
SS264	593-49-	HEPTACOSANE W/ C19H14 PAH	370	JX
SS264	630-03-	NONACOSANE	350	JX
SS264	192-97-	BENZO[E]PYRENE	800	JX
SS264	198-55-	PERYLENE	310	JX
		TOTAL UNKNOWN TICS:	910	
		TOTAL TICS	14710	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS265
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS265	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	7600	BJ
SS265	629-78-	HEPTADECANE	130	JX
SS265	629-99-	PENTACOSANE	90	JX
SS265	593-49-	HEPTACOSANE	270	JX
SS265	630-03-	NONACOSANE	620	JX
SS265	192-97-	BENZO[E]PYRENE	160	JX
SS265	630-04-	HENTRIACONTANE	80	JX
		TOTAL UNKNOWN TICS:	3644	
		TOTAL TICS	12594	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS266
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS266	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	12000	BJ
SS266	2531-84-	PHENANTHRENE, 2-METHYL-	730	JX
SS266	203-64-	4H-CYCLOPENTA[DEF]PHENANTHRE	1100	JX
SS266	243-42-	BENZO[B]NAPHTHO[2,3-D]FURAN	680	JX
SS266	238-84-	11H-BENZO[A]FLUORENE	1700	JX
SS266	243-17-	11H-BENZO[B]FLUORENE	780	JX
SS266	239-35-	BENZO[B]NAPHTHO[2,1-D]THIOPH	1000	JX
SS266	195-19-	BENZO[C]PHENANTHRENE	760	JX
SS266	27208-37-	CYCLOPENTA[CD]PYRENE W/ N-AR	790	JX
SS266	192-97-	BENZO[E]PYRENE	4200	JX
SS266	198-55-	PERYLENE	1200	JX
		TOTAL UNKNOWN TICS:	9190	
		TOTAL TICS	34130	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS267
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS267	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5900	BJ
SS267	112-40-	DODECANE	220	JX
SS267	629-50-	TRIDECANE	330	JX
SS267	629-59-	TETRADECANE	500	JX
SS267	629-62-	PENTADECANE	540	JX
SS267	544-76-	HEXADECANE	650	JX
SS267	629-78-	HEPTADECANE	870	JX
SS267	1921-70-	PENTADECANE, 2,6,10,14-TETRA	590	JX
SS267	593-45-	OCTADECANE	880	JX
SS267	638-36-	HEXADECANE, 2,6,10,14-TETRAM	470	JX
SS267	629-92-	NONADECANE	820	JX
SS267	112-95-	EICOSANE	730	JX
SS267	629-94-	HENEICOSANE	560	JX
SS267	629-97-	DOCOSANE	480	JX
SS267	638-67-	TRICOSANE	330	JX
SS267	646-31-	TETRACOSANE	200	JX
SS267	629-99-	PENTACOSANE	170	JX
SS267	630-03-	NONACOSANE	190	JX
		TOTAL UNKNOWN TICS:	1040	
		TOTAL TICS	15470	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS268
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS268	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4700	BJ
SS268	629-78-	HEPTADECANE	160	JX
SS268	314-40-	BROMACIL	220	JX
SS268	638-67-	TRICOSANE	89	JX
SS268	629-99-	PENTACOSANE W/ BENZO[C]PHENA	140	JX
SS268	593-49-	HEPTACOSANE W/ C19H14 PAH	190	JX
SS268	630-03-	NONACOSANE	350	JX
SS268	192-97-	BENZO[E]PYRENE	190	JX
SS268	630-04-	HENTRIACONTANE	130	JX
		TOTAL UNKNOWN TICS:	280	
		TOTAL TICS	6449	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS269
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS269	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	8700	BJ
SS269	112-40-	DODECANE	52000	JX
SS269	629-50-	TRIDECANE	73000	JX
SS269	629-59-	TETRADECANE	0	JX
SS269	629-62-	PENTADECANE	20000	JX
SS269	544-76-	HEXADECANE	10000	JX
SS269	629-78-	HEPTADECANE	40000	JX
SS269	1921-70-	PENTADECANE, 2,6,10,14-TETRA	10000	JX
SS269	593-45-	OCTADECANE	10000	JX
SS269	638-36-	HEXADECANE, 2,6,10,14-TETRAM	20000	JX
SS269	629-92-	NONADECANE	10000	JX
SS269	112-95-	EICOSANE	93000	JX
SS269	629-94-	HENEICOSANE	61000	JX

TOTAL UNKNOWN TICS: 381000
TOTAL TICS 788700

SDG FILE: temp\1E40878 DATE: MATRIX:
ES: SB2621
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2621	138-86-3	Limonene	11	NJ

TOTAL UNKNOWN TICS: 20
TOTAL TICS 31

SDG FILE: temp\1E40878 DATE: MATRIX:
ES: SB2644
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2644	556-67-2	Cyclotetrasiloxane, octameth	8	NJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 8

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: SB2611
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2611	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	9900	BJ

TOTAL UNKNOWN TICS: 0
TOTAL TICS 9900

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: SB2612
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2612	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	11000	BJ
SB2612	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	84	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	11084	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2621
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2621	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4800	BJ
SB2621	143-07-	DODECANOIC ACID	510	BJ
SB2621	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	300	JX
SB2621	629-78-	HEPTADECANE	220	JX
SB2621	593-45-	OCTADECANE	200	JX
SB2621	629-92-	NONADECANE	210	JX
SB2621	112-95-	EICOSANE	220	JX
SB2621	593-49-	HEPTACOSANE	260	JX
SB2621	630-03-	NONACOSANE	630	JX
SB2621	630-04-	HENTRIACONTANE	400	JX
		TOTAL UNKNOWN TICS:	6390	
		TOTAL TICS	14140	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2625
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2625	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	7600	BJ
SB2625	629-59-	TETRADECANE	120	JX
SB2625	629-62-	PENTADECANE	130	JX
SB2625	143-07-	DODECANOIC ACID	220	BJ
SB2625	544-76-	HEXADECANE	140	JX
SB2625	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	230	JX
SB2625	629-78-	HEPTADECANE	160	JX
SB2625	593-45-	OCTADECANE	150	JX
SB2625	629-92-	NONADECANE	140	JX
SB2625	112-95-	EICOSANE	110	JX
SB2625	629-99-	PENTACOSANE	120	JX
SB2625	593-49-	HEPTACOSANE	220	JX
SB2625	630-02-	OCTACOSANE	110	JX
SB2625	630-03-	NONACOSANE	630	JX
SB2625	630-04-	HENTRIACONTANE	290	JX
		TOTAL UNKNOWN TICS:	4510	
		TOTAL TICS	14880	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2626
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2626	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5400	BJ
SB2626	143-07-	DODECANOIC ACID	400	BJ
SB2626	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	210	JX
SB2626	593-49-	HEPTACOSANE	140	JX
SB2626	630-03-	NONACOSANE	450	JX
SB2626	630-04-	HENTRIACONTANE	420	JX
SB2626	630-05-	TRITRIACONTANE	120	JX

TOTAL UNKNOWN TICS: 627
TOTAL TICS 7767

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2627
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2627	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5200	BJ
SB2627	143-07-	DODECANOIC ACID	220	BJ
SB2627	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	82	JX
SB2627	630-03-	NONACOSANE	180	JX

TOTAL UNKNOWN TICS: 730
TOTAL TICS 6412

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2631
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2631	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	8000	BJ
SB2631	143-07-	DODECANOIC ACID	260	BJ
SB2631	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	160	JX
SB2631	593-49-	HEPTACOSANE	140	JX
SB2631	630-03-	NONACOSANE	500	JX
SB2631	630-04-	HENTRIACONTANE	360	JX
SB2631	630-05-	TRITRIACONTANE	110	JX

TOTAL UNKNOWN TICS: 1080
TOTAL TICS 10610

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2634
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2634	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	7000	BJ
SB2634	143-07-	DODECANOIC ACID	640	BJ
SB2634	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	150	JX
SB2634	593-49-	HEPTACOSANE	200	JX
SB2634	630-03-	NONACOSANE	870	JX
SB2634	638-68-	TRIACONTANE	98	JX
SB2634	630-04-	HENTRIACONTANE	810	JX
SB2634	630-05-	TRITRIACONTANE	160	JX
		TOTAL UNKNOWN TICS:	379	
		TOTAL TICS	10307	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2636
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2636	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5000	BJ
SB2636	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	380	BJ
SB2636	630-03-	NONACOSANE	150	JX
SB2636	630-04-	HENTRIACONTANE	130	JX
		TOTAL UNKNOWN TICS:	310	
		TOTAL TICS	5970	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2641
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2641	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6100	BJ
SB2641	143-07-	DODECANOIC ACID	300	BJ
SB2641	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	110	JX
SB2641	57-10-	HEXADECANOIC ACID	160	JX
SB2641	593-49-	HEPTACOSANE	280	JX
SB2641	630-02-	OCTACOSANE	100	JX
SB2641	630-03-	NONACOSANE	1700	JX
SB2641	630-04-	HENTRIACONTANE	840	JX
SB2641	541-01-	HEPTASILOXANE, HEXADECAMETHY	170	JX
SB2641	630-05-	TRITRIACONTANE	180	JX
		TOTAL UNKNOWN TICS:	3390	
		TOTAL TICS	13330	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2642
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2642	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4900	BJ
SB2642	143-07-	DODECANOIC ACID	120	BJ
SB2642	630-03-	NONACOSANE	220	JX
SB2642	630-04-	HENTRIACONTANE	160	JX
		TOTAL UNKNOWN TICS:	1410	
		TOTAL TICS	6810	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: SB2644
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB2644	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3800	BJ
SB2644	143-07-	DODECANOIC ACID	270	BJ
SB2644	638-36-	HEXADECANE, 2,6,10,14-TETRAM	150	BJ
SB2644	112-95-	EICOSANE	120	JX
SB2644	593-49-	HEPTACOSANE	120	JX
SB2644	630-03-	NONACOSANE	510	JX
SB2644	638-68-	TRIACONTANE	85	JX
SB2644	630-04-	HENTRIACONTANE	650	JX
SB2644	630-05-	TRITRIACONTANE	120	JX
		TOTAL UNKNOWN TICS:	3431	
		TOTAL TICS	9256	

SDG FILE: temp\1E40654 DATE: MATRIX:
ES: TP2632
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	110	
		TOTAL TICS	110	

SDG FILE: temp\1E40654 DATE: MATRIX:
ES: TP2641
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2641	992-94-	SILANE, METHYL-	68	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	68	

SDG FILE: temp\1E40654 DATE: MATRIX:
ES: TP2642
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2642	992-94-	SILANE, METHYL-	48	JX
		TOTAL UNKNOWN TICS:	0	
		TOTAL TICS	48	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2611
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2611	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	15000	BJ
TP2611	630-03-	NONACOSANE	2900	JX
TP2611	630-04-	HENTRIACONTANE	1500	JX
		TOTAL UNKNOWN TICS:	14760	
		TOTAL TICS	34160	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2612
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2612	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3100	BJ
TP2612	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	110	JX
TP2612	630-03-	NONACOSANE	130	JX
TP2612	630-04-	HENTRIACONTANE	95	JX
		TOTAL UNKNOWN TICS:	453	
		TOTAL TICS	3888	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2621
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2621	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	22000	BJ
TP2621	192-97-	BENZO[E]PYRENE	530	JX
		TOTAL UNKNOWN TICS:	13600	
		TOTAL TICS	36130	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2622
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2622	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3700	BJ
TP2622	629-50-	TRIDECANE	230	JX
TP2622	629-62-	PENTADECANE	430	JX
TP2622	544-76-	HEXADECANE	440	JX
TP2622	629-78-	HEPTADECANE	420	JX
TP2622	1921-70-	PENTADECANE, 2,6,10,14-TETRA	330	JX
TP2622	593-45-	OCTADECANE	320	JX
TP2622	629-92-	NONADECANE	240	JX
TP2622	57-10-	HEXADECANOIC ACID	330	JX
TP2622	629-99-	PENTACOSANE	210	JX
TP2622	593-49-	HEPTACOSANE	510	JX
TP2622	630-02-	OCTACOSANE	230	JX
TP2622	630-03-	NONACOSANE	1700	JX
TP2622	506-52-	1-HEXACOSANOL	230	JX
TP2622	638-68-	TRIACONTANE	210	JX
TP2622	630-04-	HENTRIACONTANE	1900	JX
TP2622	630-05-	TRITRIACONTANE	320	JX

TOTAL UNKNOWN TICS: 770
TOTAL TICS 12520

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: TP2631
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2631	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6100	BJ
TP2631	630-03-	NONACOSANE	340	JX
TP2631	630-04-	HENTRIACONTANE	370	JX

TOTAL UNKNOWN TICS: 120
TOTAL TICS 6930

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: TP2632 LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2632	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6300	BJ
TP2632	57-10-	HEXADECANOIC ACID	98	JX
TP2632	593-49-	HEPTACOSANE	110	JX
TP2632	506-51-	1-TETRACOSANOL	89	JX
TP2632	630-02-	OCTACOSANE	110	JX
TP2632	630-03-	NONACOSANE	580	JX
TP2632	506-52-	1-HEXACOSANOL	370	JX
TP2632	630-04-	HENTRIACONTANE	550	JX
TP2632	630-05-	TRITRIACONTANE	110	JX
TP2632	123-28-	PROPANOIC ACID, 3,3'-THIOBIS	81	JX

TOTAL UNKNOWN TICS: 469
TOTAL TICS 8867

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: TP2641
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2641	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3900	BJ
TP2641	87-44-	CHRYOPHYLLENE	1000	JX
TP2641	112-53-	1-DODECANOL	190	JX
TP2641	57-10-	HEXADECANOIC ACID	890	JX
TP2641	593-49-	HEPTACOSANE	220	JX
TP2641	630-03-	NONACOSANE	950	JX
TP2641	506-52-	1-HEXACOSANOL	210	JX
TP2641	630-04-	HENTRIACONTANE	550	JX
TP2641	83-48-	STIGMASTEROL	270	JX
		TOTAL UNKNOWN TICS:	10130	
		TOTAL TICS	18310	

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: TP2642
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2642	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5300	BJ
TP2642	87-44-	CARYOPHYLLENE	1200	JX
TP2642	57-10-	HEXADECANOIC ACID	670	JX
TP2642	593-49-	HEPTACOSANE	350	JX
TP2642	630-02-	OCTACOSANE	170	JX
TP2642	630-03-	NONACOSANE	1100	JX
TP2642	506-52-	1-HEXACOSANOL	230	JX
TP2642	630-04-	HENTRIACONTANE	490	JX
TP2642	83-48-	STIGMASTEROL	310	JX
		TOTAL UNKNOWN TICS:	8610	
		TOTAL TICS	18430	

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: TP2651
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2651	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3300	BJ
TP2651	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	83	JX
TP2651	57-10-	HEXADECANOIC ACID	130	JX
TP2651	593-49-	HEPTACOSANE	130	JX
TP2651	630-02-	OCTACOSANE	130	JX
TP2651	630-03-	NONACOSANE	450	JX
TP2651	506-52-	1-HEXACOSANOL	91	JX
TP2651	630-04-	HENTRIACONTANE	390	JX
		TOTAL UNKNOWN TICS:	160	
		TOTAL TICS	4864	

SDG FILE: temp\1F40654 DATE: MATRIX:
ES: TP2652
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2652	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3700	BJ
TP2652	57-10-	HEXADECANOIC ACID	110	JX
TP2652	629-99-	PENTACOSANE W/ 1-DOCOSANOL	98	JX
TP2652	506-51-	1-TETRACOSANOL	130	JX
TP2652	630-03-	NONACOSANE	290	JX
TP2652	506-52-	1-HEXACOSANOL	150	JX
TP2652	630-04-	HENTRIACONTANE	310	JX

TOTAL UNKNOWN TICS: 240
TOTAL TICS 5028

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2661
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2661	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3300	BJ
TP2661	143-07-	DODECANOIC ACID	130	BJ
TP2661	593-49-	HEPTACOSANE	210	JX
TP2661	630-02-	OCTACOSANE	120	JX
TP2661	630-03-	NONACOSANE	650	JX
TP2661	506-52-	1-HEXACOSANOL	81	JX
TP2661	192-97-	BENZO[E]PYRENE	140	JX
TP2661	638-68-	TRIACONTANE	74	JX
TP2661	630-04-	HENTRIACONTANE	380	JX
TP2661	630-05-	TRITRIACONTANE	93	JX

TOTAL UNKNOWN TICS: 1077
TOTAL TICS 6255

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2662
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2662	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4100	BJ
TP2662	143-07-	DODECANOIC ACID	120	BJ
TP2662	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	140	JX
TP2662	638-36-	HEXADECANE, 2,6,10,14-TETRAM	100	BJ
TP2662	593-49-	HEPTACOSANE	160	JX
TP2662	630-02-	OCTACOSANE	110	JX
TP2662	630-03-	NONACOSANE	280	JX
TP2662	638-68-	TRIACONTANE	89	JX
TP2662	630-04-	HENTRIACONTANE	240	JX

TOTAL UNKNOWN TICS: 2824
TOTAL TICS 8163

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2671
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2671	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3200	BJ
TP2671	143-07-	DODECANOIC ACID	190	BJ
TP2671	203-64-	4H-CYCLOPENTA[DEF]PHENANTHRE	110	JX
TP2671	238-84-	11H-BENZO[A]FLUORENE	140	JX
TP2671	593-49-	HEPTACOSANE	170	JX
TP2671	630-02-	OCTACOSANE	98	JX
TP2671	630-03-	NONACOSANE	480	JX
TP2671	192-97-	BENZO[E]PYRENE	290	JX
TP2671	198-55-	PERYLENE	100	JX
TP2671	630-04-	HENTRIACONTANE	300	JX
		TOTAL UNKNOWN TICS:	2073	
		TOTAL TICS	7151	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2672
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2672	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	4500	BJ
TP2672	143-07-	DODECANOIC ACID	120	BJ
TP2672	630-03-	NONACOSANE	170	JX
TP2672	630-04-	HENTRIACONTANE	150	JX
		TOTAL UNKNOWN TICS:	390	
		TOTAL TICS	5330	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2681
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2681	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	19000	BJ
TP2681	2531-84-	PHENANTHRENE, 2-METHYL-	670	JX
TP2681	203-64-	4H-CYCLOPENTA[DEF]PHENANTHRE	2000	JX
TP2681	238-84-	11H-BENZO[A]FLUORENE	2000	JX
TP2681	243-17-	11H-BENZO[B]FLUORENE	1200	JX
TP2681	239-35-	BENZO[B]NAPHTHO[2,1-D]THIOPH	1000	JX
TP2681	195-19-	BENZO[C]PHENANTHRENE	650	JX
TP2681	27208-37-	CYCLOPENTA[CD]PYRENE	870	JX
TP2681	192-97-	BENZO[E]PYRENE	3500	JX
TP2681	198-55-	PERYLENE	1400	JX
		TOTAL UNKNOWN TICS:	9770	
		TOTAL TICS	42060	

SDG FILE: temp\1F40878 DATE: MATRIX:
ES: TP2682
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP2682	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6500	BJ
TP2682	74381-40-	PROPANOIC ACID, 2-METHYL-, 1	89	JX
TP2682	629-99-	PENTACOSANE	98	JX
TP2682	661-19-	1-DOCOSANOL	89	JX
TP2682	593-49-	HEPTACOSANE	330	JX
TP2682	506-51-	1-TETRACOSANOL	110	JX
TP2682	630-02-	OCTACOSANE	130	JX
TP2682	630-03-	NONACOSANE	1400	JX
TP2682	506-52-	1-HEXACOSANOL	190	JX
TP2682	192-97-	BENZO[E]PYRENE	93	JX
TP2682	638-68-	TRIACONTANE	150	JX
TP2682	630-04-	HENTRIACONTANE	1200	JX
TP2682	544-85-	DOTRIACONTANE	85	JX
TP2682	630-05-	TRITRIACONTANE	220	JX

TOTAL UNKNOWN TICS: 270
TOTAL TICS 10954

SDG FILE: temp\1E40391 DATE: MATRIX:
ES: SD261
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD261	75-18-	METHANE, THIOBIS-	26	JX

TOTAL UNKNOWN TICS: 18
TOTAL TICS 44

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD261
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD261	123-42-2	2-Pentanone, 4-hydroxy-4-met	34000	NJ
SD261	1120-21-4	Undecane	8300	NJ
SD261	112-40-3	Dodecane	7800	NJ
SD261	629-50-5	Tridecane	7300	NJ
SD261	1921-70-6	Pentadecane, 2,6,10,14-tetra	62000	NJ
SD261	638-36-8	Hexadecane, 2,6,10,14-tetram	49000	NJ
SD261	629-92-5	Nonadecane	19000	NJ

TOTAL UNKNOWN TICS: 155100
TOTAL TICS 342500

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW261
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW261	123-42-2	2-Pentanone, 4-hydroxy-4-met	14	NJ
SW261	85-44-9	Phthalic anhydride w/unknown	12	NJ
SW261	271-89-6	Benzofuran w/unknown	24	NJ
SW261	5463-50-3	1,3-Isobenzofurandione, 4,7-	19	NJ
		TOTAL UNKNOWN TICS:	307	
		TOTAL TICS	376	

SEAD-45

TENATIVELY IDENTIFIED COMPOUNDS
SEAD - 45

SDG FILE: temp\1E40339 DATE: MATRIX:
ES: SS453
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	16	
		TOTAL TICS	16	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS451
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS451	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6500	BJ
SS451	1120-21-	UNDECANE	800	JX
SS451	57-10-	HEXADECANOIC ACID	400	JX
SS451	629-99-	PENTACOSANE W/ 1-DOCOSANOL	320	JX
SS451	593-49-	HEPTACOSANE	490	JX
SS451	506-51-	1-TETRACOSANOL	220	JX
SS451	630-02-	OCTACOSANE	240	JX
SS451	630-03-	NONACOSANE	2000	JX
SS451	506-52-	1-HEXACOSANOL	1000	JX
SS451	638-68-	TRIACONTANE	220	JX
SS451	630-04-	HENTRIACONTANE	1400	JX
SS451	57-88-	CHOLESTEROL	240	JX
SS451	630-05-	TRITRIACONTANE	210	JX
		TOTAL UNKNOWN TICS:	2500	
		TOTAL TICS	16540	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS452
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS452	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6800	BJ
SS452	629-78-	HEPTADECANE	390	JX
SS452	629-99-	PENTACOSANE W/ 1-DOCOSANOL	170	JX
SS452	593-49-	HEPTACOSANE	230	JX
SS452	506-51-	1-TETRACOSANOL	120	JX
SS452	630-03-	NONACOSANE	790	JX
SS452	506-52-	1-HEXACOSANOL	250	JX
SS452	638-68-	TRIACONTANE W/ UNKNOWN	120	JX
SS452	630-04-	HENTRIACONTANE	720	JX
SS452	57-88-	CHOLESTEROL	110	JX
SS452	630-05-	TRITRIACONTANE	140	JX
		TOTAL UNKNOWN TICS:	3680	
		TOTAL TICS	13520	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS453
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS453	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	5100	BJ
SS453	57-10-	HEXADECANOIC ACID	320	JX
SS453	629-99-	PENTACOSANE W/ 1-DOCOSANOL	140	JX
SS453	593-49-	HEPTACOSANE	240	JX
SS453	506-51-	1-TETRACOSANOL	84	JX
SS453	630-02-	OCTACOSANE	120	JX
SS453	630-03-	NONACOSANE	770	JX
SS453	506-52-	1-HEXACOSANOL	530	JX
SS453	638-68-	TRIACONTANE	100	JX
SS453	630-04-	HENTRIACONTANE	880	JX
SS453	630-05-	TRITRIACONTANE	120	JX
		TOTAL UNKNOWN TICS:	3470	
		TOTAL TICS	11874	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS454
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS454	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	6800	BJ
SS454	629-99-	PENTACOSANE W/ 1-DOCOSANOL	130	JX
SS454	593-49-	HEPTACOSANE	200	JX
SS454	506-51-	1-TETRACOSANOL	98	JX
SS454	630-02-	OCTACOSANE	98	JX
SS454	630-03-	NONACOSANE	780	JX
SS454	506-52-	1-HEXACOSANOL	540	JX
SS454	638-68-	TRIACONTANE	87	JX
SS454	630-04-	HENTRIACONTANE	510	JX
SS454	630-05-	TRITRIACONTANE	83	JX
		TOTAL UNKNOWN TICS:	1748	
		TOTAL TICS	11074	

SDG FILE: temp\1F40339 DATE: MATRIX:
ES: SS456
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS456	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	7000	BJ
SS456	21368-68-	BICYCLO[2.2.1]HEPTAN-2-ONE,	330	JX
SS456	629-99-	PENTACOSANE W/ 1-DOCOSANOL	120	JX
SS456	593-49-	HEPTACOSANE W/ C19H14 PAH	180	JX
SS456	506-51-	1-TETRACOSANOL	94	JX
SS456	630-02-	OCTACOSANE	72	JX
SS456	630-03-	NONACOSANE	390	JX
SS456	506-52-	1-HEXACOSANOL	200	JX
SS456	192-97-	BENZO[E]PYRENE	110	JX
SS456	638-68-	TRIACONTANE	76	JX
SS456	630-04-	HENTRIACONTANE	310	JX
SS456	630-05-	TRITRIACONTANE	87	JX
		TOTAL UNKNOWN TICS:	440	
		TOTAL TICS	9409	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SS4510
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS4510	123-42-2	2-Pentanone, 4-hydroxy-4-met	5000	NJ
SS4510	57-10-3	Hexadecanoic acid	140	NJ
SS4510	593-49-7	Heptacosane	130	NJ
SS4510	630-03-5	Nonacosane	1000	NJ
SS4510	630-04-6	Hentriacontane	590	NJ
		TOTAL UNKNOWN TICS:	1641	
		TOTAL TICS	8501	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SS455
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS455	123-42-2	2-Pentanone, 4-hydroxy-4-met	5200	NJ
SS455	57-10-3	Hexadecanoic acid	190	NJ
SS455	593-49-7	Heptacosane	86	NJ
SS455	630-03-5	Nonacosane	1200	NJ
SS455	630-04-6	Hentriacontane	680	NJ
SS455	630-05-7	Tritriacontane	140	NJ
		TOTAL UNKNOWN TICS:	2680	
		TOTAL TICS	10176	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SS457
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS457	123-42-2	2-Pentanone, 4-hydroxy-4-met	4400	NJ
SS457	630-03-5	Nonacosane	440	NJ
SS457	630-04-6	Hentriacontane	330	NJ
SS457	630-05-7	Tritriacontane	92	NJ
		TOTAL UNKNOWN TICS:	431	
		TOTAL TICS	5693	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SS458
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS458	123-42-2	2-Pentanone, 4-hydroxy-4-met	5400	NJ
SS458	57-10-3	Hexadecanoic acid	150	NJ
SS458	593-49-7	Heptacosane	98	NJ
SS458	630-03-5	Nonacosane	600	NJ
SS458	630-04-6	Hentriacontane	430	NJ
		TOTAL UNKNOWN TICS:	2967	
		TOTAL TICS	9645	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SS459
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SS459	123-42-2	2-Pentanone, 4-hydroxy-4-met	5000	NJ
SS459	118-96-7	Benzene, 2-methyl-1,3,5-trin	180	NJ
SS459	593-49-7	Heptacosane	160	NJ
SS459	630-03-5	Nonacosane	1100	NJ
SS459	630-04-6	Hentriacontane	770	NJ
SS459	630-05-7	Tritriacontane	170	NJ
		TOTAL UNKNOWN TICS:	1510	
		TOTAL TICS	8890	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB451
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB451	123-42-2	2-Pentanone, 4-hydroxy-4-met	12000	NJ
SB451	118-96-7	Benzene, 2-methyl-1,3,5-trin	92	NJ
SB451	57-10-3	Hexadecanoic acid	140	NJ
		TOTAL UNKNOWN TICS:	5543	
		TOTAL TICS	17775	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB451RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB451RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	4400	NJ
SB451RE	832-71-3	Phenanthrene, 3-methyl- w/he	220	NJ
SB451RE	2531-84-2	Phenanthrene, 2-methyl-	140	NJ
SB451RE	238-84-6	11H-Benzo[a]fluorene	160	NJ
SB451RE	630-03-5	Nonacosane	250	NJ
SB451RE	192-97-2	Benzo[e]pyrene	280	NJ
SB451RE	630-04-6	Hentriacontane	250	NJ
		TOTAL UNKNOWN TICS:	3190	
		TOTAL TICS	8890	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB452
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB452	123-42-2	2-Pentanone, 4-hydroxy-4-met	11000	NJ
SB452	629-99-2	Pentacosane	84	NJ
SB452	630-01-3	Hexacosane	97	NJ
SB452	593-49-7	Heptacosane	130	NJ
SB452	630-02-4	Octacosane	88	NJ
SB452	630-03-5	Nonacosane	360	NJ
SB452	638-68-6	Triacontane	120	NJ
SB452	630-04-6	Hentricontane	290	NJ
		TOTAL UNKNOWN TICS:	563	
		TOTAL TICS	12732	

SDG FILE: temp\1F41135 DATE: MATRIX:
ES: SB452RE
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SB452RE	123-42-2	2-Pentanone, 4-hydroxy-4-met	4300	NJ
SB452RE	593-49-7	Heptacosane	91	NJ
SB452RE	630-03-5	Nonacosane	180	NJ
SB452RE	630-04-6	Hentriacontane	94	NJ
		TOTAL UNKNOWN TICS:	245	
		TOTAL TICS	4910	

SDG FILE: temp\1E40391 DATE: MATRIX:
ES: TP453C
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP453C	1066-40-6	Silanol, trimethyl-	15	NJ
		TOTAL UNKNOWN TICS:	12	
		TOTAL TICS	27	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: TP451
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP451	123-42-2	2-Pentanone, 4-hydroxy-4-met	6900	NJ
TP451	118-96-7	Benzene, 2-methyl-1,3,5-trin	180	NJ
TP451	57-10-3	Hexadecanoic acid	75	NJ
TP451	35572-78-2	Benzenamine, 2-methyl-3,5-di	100	NJ
TP451	629-99-2	Pentacosane	100	NJ
TP451	593-49-7	Heptacosane	170	NJ
TP451	630-02-4	Octacosane	92	NJ
TP451	630-03-5	Nonacosane	630	NJ
TP451	638-68-6	Triacontane	120	NJ
TP451	630-04-6	Hentriacontane	500	NJ
TP451	630-05-7	Tritriacontane	140	NJ
		TOTAL UNKNOWN TICS:	604	
		TOTAL TICS	9611	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: TP4511
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP4511	123-42-2	2-Pentanone, 4-hydroxy-4-met	6400	NJ
TP4511	118-96-7	Benzene, 2-methyl-1,3,5-trin	110	NJ
TP4511	35572-78-2	Benzenamine, 2-methyl-3,5-di	90	NJ
TP4511	629-99-2	Pentacosane	84	NJ
TP4511	593-49-7	Heptacosane	130	NJ
TP4511	630-02-4	Octacosane	73	NJ
TP4511	630-03-5	Nonacosane	540	NJ
TP4511	638-68-6	Triacontane	120	NJ
TP4511	630-04-6	Hentriacontane	420	NJ
TP4511	630-05-7	Tritriacontane	120	NJ
		TOTAL UNKNOWN TICS:	548	
		TOTAL TICS	8635	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: TP452
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP452	123-42-2	2-Pentanone, 4-hydroxy-4-met	21000	NJ
TP452	630-03-5	Nonacosane	700	NJ
TP452	630-04-6	Hentriacontane	460	NJ
		TOTAL UNKNOWN TICS:	920	
		TOTAL TICS	23080	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: TP453
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP453	123-42-2	2-Pentanone, 4-hydroxy-4-met	7000	NJ
TP453	118-96-7	Benzene, 2-methyl-1,3,5-trin	130	NJ
TP453	35572-78-2	Benzenamine, 2-methyl-3,5-di	120	NJ
TP453	78-51-3	Ethanol, 2-butoxy-, phosphat	110	NJ
TP453	593-49-7	Heptacosane	110	NJ
TP453	630-03-5	Nonacosane	350	NJ
TP453	638-68-6	Triacontane	88	NJ
TP453	630-04-6	Hentriacontane	280	NJ
		TOTAL UNKNOWN TICS:	350	
		TOTAL TICS	8538	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: TP454
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP454	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3600	BJ
TP454	118-96-	BENZENE, 2-METHYL-1,3,5-TRIN	120	JX
TP454	57-10-	HEXADECANOIC ACID	110	JX
TP454	629-99-	PENTACOSANE	180	JX
TP454	593-49-	HEPTACOSANE	180	JX
TP454	506-51-	1-TETRACOSANOL	97	JX
TP454	630-02-	OCTACOSANE	150	JX
TP454	630-03-	NONACOSANE	510	JX
TP454	506-52-	1-HEXACOSANOL	300	JX
TP454	630-04-	HENTRIACONTANE	440	JX
TP454	630-05-	TRITRIACONTANE	97	JX
		TOTAL UNKNOWN TICS:	692	
		TOTAL TICS	6476	

SDG FILE: temp\1F40693 DATE: MATRIX:
ES: TP455
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
TP455	123-42-	2-PENTANONE, 4-HYDROXY-4-MET	3700	BJ
TP455	118-96-	BENZENE, 2-METHYL-1,3,5-TRIN	150	JX
TP455	57-10-	HEXADECANOIC ACID	82	JX
TP455	629-94-	HENEICOSANE W/ TETRACHLORONA	100	JX
TP455	629-99-	PENTACOSANE W/ 1-DOCOSANOL	230	JX
TP455	630-01-	HEXACOSANE	97	JX
TP455	593-49-	HEPTACOSANE	180	JN
TP455	506-51-	1-TETRACOSANOL	190	JX
TP455	630-02-	OCTACOSANE	160	JX
TP455	630-03-	NONACOSANE	530	JX
TP455	506-52-	1-HEXACOSANOL	310	JX
TP455	638-68-	TRIACONTANE	94	JX
TP455	630-04-	HENTRIACONTANE	450	JX
TP455	630-05-	TRITRIACONTANE	94	JX
		TOTAL UNKNOWN TICS:	542	
		TOTAL TICS	6909	

SDG FILE: temp\1E40391 DATE: MATRIX:
ES: SD454
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
		TOTAL UNKNOWN TICS:	13	
		TOTAL TICS	13	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD451
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD451	123-42-2	2-Pentanone, 4-hydroxy-4-met	6400	NJ
SD451	630-03-5	Nonacosane	650	NJ
SD451	630-04-6	Hentriacontane	210	NJ
		TOTAL UNKNOWN TICS:	100	
		TOTAL TICS	7360	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD452
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD452	123-42-2	2-Pentanone, 4-hydroxy-4-met	8700	NJ
SD452	629-78-7	Heptadecane	150	NJ
SD452	629-99-2	Pentacosane	140	NJ
SD452	593-49-7	Heptacosane	220	NJ
SD452	630-03-5	Nonacosane	910	NJ
SD452	638-68-6	Triacontane	170	NJ
SD452	630-04-6	Hentriacontane	770	NJ
SD452	544-85-4	Dotriacontane	130	NJ
SD452	14167-59-0	Tetratriacontane	240	NJ
		TOTAL UNKNOWN TICS:	1030	
		TOTAL TICS	12460	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD453
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD453	123-42-2	2-Pentanone, 4-hydroxy-4-met	8100	NJ
SD453	629-78-7	Heptadecane	520	NJ
SD453	629-99-2	Pentacosane	100	NJ
SD453	593-49-7	Heptacosane	190	NJ
SD453	630-03-5	Nonacosane	840	NJ
SD453	630-04-6	Hentriacontane	650	NJ
SD453	630-05-7	Tritriacontane	180	NJ
		TOTAL UNKNOWN TICS:	1020	
		TOTAL TICS	11600	

SDG FILE: temp\1F40391 DATE: MATRIX:
ES: SD454
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SD454	123-42-2	2-Pentanone, 4-hydroxy-4-met	7300	NJ
SD454	629-99-2	Pentacosane	120	NJ
SD454	593-49-7	Heptacosane	170	NJ
SD454	630-03-5	Nonacosane	520	NJ
SD454	630-04-6	Hentriacontane	470	NJ
		TOTAL UNKNOWN TICS:	2037	
		TOTAL TICS	10617	

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW451
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW451	123-42-2	2-Pentanone, 4-hydroxy-4-met	15	NJ
SW451	76-22-2	Camphor	2	NJ
SW451	562-74-3	3-Cyclohexen-1-ol, 4-methyl-	6	NJ
SW451	630-03-5	Nonacosane	4	NJ
SW451	630-04-6	Hentriacontane	3	NJ

TOTAL UNKNOWN TICS: 5
TOTAL TICS 35

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW452
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW452	123-42-2	2-Pentanone, 4-hydroxy-4-met	15	NJ
SW452	149-57-5	Hexanoic acid, 2-ethyl-	2	NJ
SW452	791-28-6	Phosphine oxide, triphenyl-	6	NJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 25

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW453
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW453	123-42-2	2-Pentanone, 4-hydroxy-4-met	16	NJ
SW453	104-76-7	1-Hexanol, 2-ethyl-	3	NJ
SW453	149-57-5	Hexanoic acid, 2-ethyl-	3	NJ

TOTAL UNKNOWN TICS: 3
TOTAL TICS 25

SDG FILE: temp\1F40477 DATE: MATRIX:
ES: SW454
LAB:

ESID	CAS NO	COMPOUND	RESULT	QUAL.
SW454	123-42-2	2-Pentanone, 4-hydroxy-4-met	16	NJ

TOTAL UNKNOWN TICS: 2
TOTAL TICS 18

APPENDIX G

CONTRACT REQUIRED QUANTITATION LIMITS

TABLE C-2
PARAMETER LIST FOR INORGANIC AND ORGANIC ANALYSES

I. Soil and Sediment Analyses	Preparation Method	Analytical Method	Reporting Limits (ug/Kg)
A. Inorganics (TAL)			
i. Aluminum	NYSDEC CLP	NYSDEC CLP	20,000
ii. Antimony	NYSDEC CLP	NYSDEC CLP	6,000
iii. Arsenic	NYSDEC CLP	NYSDEC CLP	1,000
iv. Barium	NYSDEC CLP	NYSDEC CLP	20,000
v. Beryllium	NYSDEC CLP	NYSDEC CLP	500
vi. Cadmium	NYSDEC CLP	NYSDEC CLP	500
vii. Calcium	NYSDEC CLP	NYSDEC CLP	500,000
viii. Chromium	NYSDEC CLP	NYSDEC CLP	1,000
ix. Cobalt	NYSDEC CLP	NYSDEC CLP	5,000
x. Copper	NYSDEC CLP	NYSDEC CLP	2,500
xi. Iron	NYSDEC CLP	NYSDEC CLP	10,000
xii. Lead	NYSDEC CLP	NYSDEC CLP	300
xiii. Magnesium	NYSDEC CLP	NYSDEC CLP	500,000
xiv. Manganese	NYSDEC CLP	NYSDEC CLP	1,500
xv. Mercury	NYSDEC CLP	NYSDEC CLP	20
xvi. Nickel	NYSDEC CLP	NYSDEC CLP	4,000
xvii. Potassium	NYSDEC CLP	NYSDEC CLP	500,000
xviii. Selenium	NYSDEC CLP	NYSDEC CLP	500
xix. Silver	NYSDEC CLP	NYSDEC CLP	1,000
xx. Sodium	NYSDEC CLP	NYSDEC CLP	500,000
xxi. Thallium	NYSDEC CLP	NYSDEC CLP	1,000
xxii. Vanadium	NYSDEC CLP	NYSDEC CLP	5,000
xxiii. Zinc	NYSDEC CLP	NYSDEC CLP	2,000
xxiv. Cyanide, total	NYSDEC CLP	NYSDEC CLP	1,000
B. Organics			
i. TCL Volatile Organics	NYSDEC CLP	NYSDEC CLP	Table C-3
ii. TCL Semivolatile Organics	NYSDEC CLP	NYSDEC CLP	Table C-4
iii. TCL Pesticide/PCBs	NYSDEC CLP	NYSDEC CLP	Table C-5
iv. Explosives	8330	8330	Table C-6
v. Herbicides	8150	8150	Table C-7
vi. Volatile Organics	-	524.2	Table C-8
C. Other Analytes			
i. Fluoride	Extract[1]	340.2	500 μg/kg
ii. Nitrate	Extract[1]	353.2	100 μg/kg
iii. Total Petroleum Hydrocarbons	418.1	418.1	25 mg/kg

TABLE C-2 (Continued)
PARAMETER LIST FOR INORGANIC AND ORGANIC ANALYSES

		Preparation Method	Analytical Method	Reporting Limits
II.	Groundwater and Surface Water Analyses			(ug/L)
	A. Inorganics (TAL)			
	1. Aluminum	NYSDEC CLP	NYSDEC CLP	200
	2. Antimony	NYSDEC CLP	NYSDEC CLP	60
	3. Arsenic	NYSDEC CLP	NYSDEC CLP	10
	4. Barium	NYSDEC CLP	NYSDEC CLP	200
	5. Beryllium	NYSDEC CLP	NYSDEC CLP	5
	6. Cadmium	NYSDEC CLP	NYSDEC CLP	5
	7. Calcium	NYSDEC CLP	NYSDEC CLP	5,000
	8. Chromium	NYSDEC CLP	NYSDEC CLP	10
	9. Cobalt	NYSDEC CLP	NYSDEC CLP	50
	10 Copper	NYSDEC CLP	NYSDEC CLP	25
	11. Iron	NYSDEC CLP	NYSDEC CLP	100
	12. Lead	NYSDEC CLP	NYSDEC CLP	3
	13. Magnesium	NYSDEC CLP	NYSDEC CLP	5,000
	14. Manganese	NYSDEC CLP	NYSDEC CLP	15
	15. Mercury	NYSDEC CLP	NYSDEC CLP	0.2
	16. Nickel	NYSDEC CLP	NYSDEC CLP	40
	17. Potassium	NYSDEC CLP	NYSDEC CLP	5,000
	18. Selenium	NYSDEC CLP	NYSDEC CLP	5
	19. Silver	NYSDEC CLP	NYSDEC CLP	10
	20. Sodium	NYSDEC CLP	NYSDEC CLP	5,000
	21. Thallium	NYSDEC CLP	NYSDEC CLP	10
	22. Vanadium	NYSDEC CLP	NYSDEC CLP	50
	23. Zinc	NYSDEC CLP	NYSDEC CLP	20
	24. Cyanide, total	NYSDEC CLP	NYSDEC CLP	10
	B. Organics			
	1. TCL Volatile Organics	NYSDEC CLP	NYSDEC CLP	Table C-3
	2. TCL Semivolatile Organics	NYSDEC CLP	NYSDEC CLP	Table C-4
	3. TCL Pesticide/PCBs	NYSDEC CLP	NYSDEC CLP	Table C-5
	4. Explosives	8330	8330	Table C-6
	5. Herbicides	8150	8150	Table C-7
	6. Volatile Organics	-	524.2	Table C-8
	C. Other Analytes			
	1. Nitrate	-	353.2	10
	2. Fluoride	-	340.2	100
	3. Total Petroleum Hydrocarbons	418.1	418.1	500
III.	Oil Analyses			
	1. Oil Fingerprint Identification	NYSDOH Method 310-14	NYSDOH Method 310-14	Not Applicable
	2. PCBs	8080	8080	1 ug/kg[3]
	3. Herbicides	8150	8150	Table C-7
IV.	Asbestos		PLM[2]	

1. Mix a known quantity of soil in known volume of water, stir, then filter to form aqueous extract.
2. Polarized light microscopy in EPA 600/M4-82-020.
3. Detection limit is 1 ug PCB per Kg oil for each of the following Aroclors: 1016, 1221, 1232, 1242, 1248, 1254, and 1260.

TABLE C-3
CONTRACT REQUIRED QUANTITATION LIMITS*
FOR VOLATILE ORGANIC COMPOUNDS (VOCs)

VOCs		Quantitation Limits** Water (ug/L)	Low Soil/Sediment* (ug/Kg)
1.	Chloromethane	10	10
2.	Bromomethane	10	10
3.	Vinyl Chloride	10	10
4.	Chloroethane	10	10
5.	Methylene Chloride	10	10
6.	Acetone	10	10
7.	Carbon Disulfide	10	10
8.	1,1-Dichloroethene	10	10
9.	1,1-Dichloroethane	10	10
10.	1,2-Dichloroethene (total)	10	10
11.	Chloroform	10	10
12.	1,2-Dichloroethane	10	10
13.	2-Butanone	10	10
14.	1,1,1-Trichloroethane	10	10
15.	Carbon Tetrachloride	10	10
16.	Bromodichloromethane	10	10
17.	1,2-Dichloropropane	10	10
18.	cis-1,3-Dichloropropene	10	10
19.	Trichloroethene	10	10
20.	Dibromochloromethane	10	10
21.	1,1,2-Trichloroethane	10	10
22.	Benzene	10	10
23.	trans-1,3-Dichloropropene	10	10
24.	Bromoform	10	10
25.	4-Methyl-2-pentanone	10	10
26.	2-Hexanone	10	10
27.	Tetrachloroethene	10	10
28.	Toluene	10	10
29.	1,1,2,2-Tetrachloroethane	10	10
30.	Chlorobenzene	10	10
31.	Ethyl Benzene	10	10
32.	Styrene	10	10
33.	Xylenes (Total)	10	10
	Methyl Tert-Butyl Ether	10	10

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* Medium Soil/Sediment Contract Required Quantitation Limits (CRQL) for volatile TCL Compounds are 125 times the individual Low Soil/Sediment CRQL.

* Specific quantitation limits are highly matrix dependent. The quantitation limits listed herein are provided for guidance and may not always be achievable.

** Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight based as required by the contract, will be higher.

TABLE C-4

CONTRACT REQUIRED QUANTITATION LIMITS*
FOR SEMIVOLATILE COMPOUNDS (SVOs)

SVOs	Quantitation Limits** Water (ug/L)	Low Soil/Sediment[a] (ug/Kg)
34. Phenol	10	330
35. bis (2-Chloroethyl) ether	10	330
36. 2-Chlorophenol	10	330
37. 1,3-Dichlorobenzene	10	330
38. 1,4-Dichlorobenzene	10	330
39. 1,2-Dichlorobenzene	10	330
40. 2-Methylphenol	10	330
41. 2,2'-oxybis(1-Chloropropane)	10	330
42. 4-Methylphenol	10	330
43. N-Nitroso-di-n-dipropylamine	10	330
44. Hexachloroethane	10	330
45. Nitrobenzene	10	330
46. Isophorone	10	330
47. 2-Nitrophenol	10	330
48. 2,4-Dimethylphenol	10	330
49. bis (2-Chloroethoxy) methane	10	330
50. 2,4-Dichlorophenol	10	330
51. 1,2,4-Trichlorobenzene	10	330
52. Naphthalene	10	330
53. 4-Chloroaniline	10	330
54. Hexachlorobutadiene	10	330
55. 4-Chloro-3-methylphenol	10	330
56. 2-Methylnaphthalene	10	330
57. Hexachlorocyclopentadiene	10	330
58. 2,4,6-Trichlorophenol	10	330
59. 2,4,5-Trichlorophenol	25	800
60. 2-Chloronaphthalene	10	330
61. 2-Nitroaniline	25	800
62. Dimethylphthalate	10	330
63. Acenaphthylene	10	330
64. 2,6-Dinitrotoluene	10	330
65. 3-Nitroaniline	25	800
66. Acenaphthene	10	330
67. 2,4-Dinitrophenol	25	800
68. 4-Nitrophenol	25	800
69. Dibenzofuran	10	330

TABLE C-4 (cont.)

CONTRACT REQUIRED QUANTITATION LIMITS*
FOR SEMIVOLATILE COMPOUNDS (SVOs)

SVOs		Quantitation Limits** Water (ug/L)	Low Soil/Sediment[a] (ug/Kg)
70.	2,4-Dinitrotoluene	10	330
71.	Diethylphthalate	10	330
72.	4-Chlorophenyl-phenyl ether	10	330
73.	Fluorene	10	330
74.	4-Nitroaniline	25	800
75.	4,6-Dinitro-2-methylphenol	25	800
76.	N-nitrosodiphenylamine	10	330
77.	4-Bromophenyl-phenyl ether	10	330
78	Hexachlorobenzene	10	330
79.	Pentachlorophenol	25	800
80.	Phenanthrene	10	330
81.	Anthracene	10	330
82	Carbazole	10	330
83.	Di-n-butylphthalate	10	330
84.	Fluoranthene	10	330
85.	Pyrene	10	330
86.	Butyl benzyl phthalate	10	330
87.	3,3-Dichlorobenzidine	10	330
88.	Benz(a)anthracene	10	330
89.	Chrysene	10	330
90.	bis(2-Ethylhexyl)phthalate	10	330
91.	Di-n-octylphthalate	10	330
92.	Benzo(b)fluoranthene	10	330
93.	Benzo(k)fluoranthene	10	330
94.	Benzo(a)pyrene	10	330
95.	Indeno(1,2,3-cd)pyrene	10	330
96.	Dibenz(a,h)anthracene	10	330
97.	Benzo(g,h,i)perylene	10	330

* Medium Soil/Sediment Contract Required Quantitation Limits (CRQL) for semivolatile TCL Compounds are 60 times the individual Low Soil/Sediment CRQL.

** Specific quantitation limits are highly matrix dependent. The quantitation limits listed herein are provided for guidance and may not always be achievable.

[a] Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight based as required by the contract, will be higher.

TABLE C-5

CONTRACT REQUIRED QUANTITATION LIMITS*
FOR PESTICIDES AND POLYCHLORINATED BIPHENYLS (PCBs)

Pesticides/PCBs	Quantitation Limits** Water (ug/L)	Low Soil/Sediment* (ug/Kg)
alpha-BHC	0.05	1.7
beta-BHC	0.05	1.7
delta-BHC	0.05	1.7
gamma-BHC (Lindane)	0.05	1.7
Heptachlor	0.05	1.7
Aldrin	0.05	1.7
Heptachlor epoxide	0.05	1.7
Endosulfan I	0.05	1.7
Dieldrin	0.10	3.3
4,4-DDE	0.10	3.3
Endrin	0.10	3.3
Endosulfan II	0.10	3.3
4,4-DDD	0.10	3.3
Endosulfan sulfate	0.10	3.3
4,4-DDT	0.10	3.3
Methoxychlor	0.5	17
Endrin Ketone	0.10	3.3
Endrin aldehyde	0.10	3.3
alpha-Chlordane	0.05	1.7
gamma-Chlordane	0.05	1.7
Toxaphene	5.0	170
Aroclor-1016	1.0	33
Aroclor-1221	2.0	67
Aroclor-1232	1.0	33
Aroclor-1242	1.0	33
Aroclor-1248	1.0	33
Aroclor-1254	1.0	33
Aroclor-1260	1.0	33

* Medium Soil/Sediment Contract Required Quantitation Limits (CRQL) for pesticide/PCB TCL Compounds are 15 times the individual Low Soil/Sediment CRQL.

* Specific quantitation limits are highly matrix dependent. The quantitation limits listed herein are provided for guidance and may not always be achievable.

** Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight based as required by the contract, will be higher.

TABLE C-6
METHOD 8330 QUANTITATION LIMITS
FOR EXPLOSIVES

Compound	Quantitation Limits** Water (ug/L)	Soil/Sediment[a] (ug/Kg)
HMX	0.13	130
RDX	0.13	130
1,3,5-TNB	0.13	130
1,3-DNB	0.13	130
Tetryl	0.13	130
2,4,6-TNT	0.13	130
4-AM-DNT*	0.13	130
2-AM-DNT*	0.13	130
2,6-DNT	0.13	130
2,4-DNT	0.13	130

[a] See Table C-3 for a discussion of Quantitition Limits
** See Table C-3 for a discussion of Soil Quantitation Limits
* Breakdown Degradation Products

TABLE C-7
METHOD 8150 QUANTITATION LIMITS
FOR HERBICIDES

Parameter	Quantitation Limits Water (ug/L)	Soil/Sediment (ug/Kg)
2,4-D	0.94	47
2,4-DB	0.95	48
2,4,5-T	0.095	4.8
2,4,5-TP/Silvex+der.	0.095	4.8
Dicamba (banvel)	0.094	4.7
Dalapon	2.3	120
Dichlorprop	0.94	47
Dinoseb	0.47	24
MCPA	93	4700
MCPP	94	4700

QA/QC

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
RINSATE BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-11	SEAD-11	SEAD-13	SEAD-13	SEAD-13	SEAD-13	SEAD-16	SEAD-17
	SAMPLE DATE	12/06/93	12/05/93	01/24/94	01/24/94	12/07/93	12/16/93	12/17/93	11/03/93	11/17/93	10/27/93
	ES ID	SB4-1.1R	SB4-4.1R	MW11-3R	MW11-3RRE	SB13-7.1R	SB13-9.1R	SB13-10.1R	SD13-1R	MW16-2R	SB17-2.2R
	LAB ID	206266	206143	209336	209336	206404	207030	207185	202956	204986	202504
ND	UNITS										
S											
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	16	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
total)	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	4 J	NS	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
pene	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
ropene	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
one	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
thane	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	NS	NS	NA	NS	NS	NS	NS	NS	10 U	NS
	ug/L	1.1 U	1.1 U	1.1 U	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U
	ug/L	1.1 U	1.1 U	1.1 U	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U
	ug/L	0.1 U	0.11 U	0.11 U	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.12 U
	ug/L	0.1 U	0.11 U	0.11 U	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.12 U
	ug/L	2.5 U	2.5 U	2.4 U	NS	2.4 U	2.4 U	2.4 U	2.4 U	2.6 U	2.8 U
	ug/L	0.1 U	0.11 U	0.11 U	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U	0.12 U
	ug/L	1.1 U	1.1 U	1.1 U	NS	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U
	ug/L	0.5 U	0.53 U	0.53 U	NS	0.52 U	0.51 U	0.52 U	0.51 U	0.56 U	0.57 U
	ug/L	110.0 U	110 U	110 U	NS	110 U	110 U	110 U	110 U	120 U	120 U
	ug/L	110.0 U	110 U	110 U	NS	110 U	110 U	110 U	110 U	120 U	120 U
	ug/L	0.13 U	0.13 U	2.1 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
e	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
otoluene	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
otoluene	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U
	ug/L	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	NS	NS	0.13 U	0.13 UJ	0.13 U

NOTES:
NS stands for NOT SAMPLED
NA stands for NOT ANALYZED
ND stands for NOT DETECTED

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
RINSATE BLANKS

	MATRIX LOCATION SAMPLE DATE ES ID LAB ID	WATER SEAD-4 12/06/93 SB4-1.1R 206266	WATER SEAD-4 12/05/93 SB4-4.1R 206143	WATER SEAD-11 01/24/94 MW11-3R 209336	WATER SEAD-11 01/24/94 MW11-3RRE 209336	WATER SEAD-13 12/07/93 SB13-7.1R 206404	WATER SEAD-13 12/16/93 SB13-9.1R 207030	WATER SEAD-13 12/17/93 SB13-10.1R 207185	WATER SEAD-13 11/03/93 SD13-1R 202956	WATER SEAD-16 11/17/93 MW16-2R 204986	WATER SEAD-17 10/27/93 SB17-2.2R 202504
UND	UNITS										
ANICS											
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
ther	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
ropropane)	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
ropylamine	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
) methane	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
ene	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
lphenol	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
ne	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
tadiene	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
nol	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
nol	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
ne	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
henylether	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
hylphenol	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
mine	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
henylether	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	26 U	26 U	26 U	NS	26 U	25 U	26 U	26 U	26 U	27 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	1 J
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
line	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
thalate	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	13 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
rene	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
ne	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U
e	ug/L	11 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	11 U

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
RINSATE BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-4	SEAD-4	SEAD-11	SEAD-11	SEAD-13	SEAD-13	SEAD-13	SEAD-13	SEAD-16	SEAD-17
	SAMPLE DATE	12/06/93	12/05/93	01/24/94	01/24/94	12/07/93	12/16/93	12/17/93	11/03/93	11/17/93	10/27/93
	ES ID	SB4-1.1R	SB4-4.1R	MW11-3R	MW11-3RRE	SB13-7.1R	SB13-9.1R	SB13-10.1R	SD13-1R	MW16-2R	SB17-2.2R
	LAB ID	206268	206143	209336	209336	206404	207030	207185	202956	204986	202504
ND	UNITS										
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
ne)	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.5 UJ	0.58 U	0.52 U	NS	0.5 UJ	0.5 U	0.56 U	0.5 U	0.54 U	0.58 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.1 UJ	0.12 U	0.1 U	NS	0.1 UJ	0.1 U	0.11 U	0.1 U	0.11 U	0.12 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	0.05 UJ	0.058 U	0.052 U	NS	0.05 UJ	0.05 U	0.056 U	0.05 U	0.054 U	0.058 U
	ug/L	5 UJ	5.8 U	5.2 U	NS	5 UJ	5 U	5.6 U	5 U	5.4 U	5.8 U
	ug/L	1 UJ	1.2 U	1 U	NS	1 UJ	1 U	1.1 U	1 U	1.1 U	1.2 U
	ug/L	2 UJ	2.3 U	2.1 U	NS	2 UJ	2 U	2.2 U	2 U	2.1 U	2.3 U
	ug/L	1 UJ	1.2 U	1 U	NS	1 UJ	1 U	1.1 U	1 U	1.1 U	1.2 U
	ug/L	1 UJ	1.2 U	1 U	NS	1 UJ	1 U	1.1 U	1 U	1.1 U	1.2 U
	ug/L	1 UJ	1.2 U	1 U	NS	1 UJ	1 U	1.1 U	1 U	1.1 U	1.2 U
	ug/L	1 UJ	1.2 U	1 U	NS	1 UJ	1 U	1.1 U	1 U	1.1 U	1.2 U
	ug/L	1 UJ	1.2 U	1 U	NS	1 UJ	1 U	1.1 U	1 U	1.1 U	1.2 U
	ug/L	88.1 J	109 J	41.9 U	NS	41.9 U	52 J	41.9 U	44.5 U	44.8 U	44.7 U
	ug/L	21.6 U	21.5 U	21.5 U	NS	21.5 U	21.5 U	21.5 U	52.3 UJ	52.7 U	52.5 U
	ug/L	0.79 U	1.9 J	0.8 U	NS	0.8 U	0.79 U	0.8 U	1.2 U	0.99 U	1 U
	ug/L	3.5 U	3.5 U	3.5 U	NS	3.5 U	3.5 U	3.5 U	1.7 J	0.9 U	1.8 J
	ug/L	0.4 U	0.4 U	0.4 U	NS	0.4 U	0.4 U	0.4 U	0.3 U	0.3 U	0.3 U
	ug/L	2.1 U	2.1 U	2.1 U	NS	2.1 U	2.1 U	2.1 U	3.3 U	3.3 U	3.3 U
	ug/L	128 U	184 J	384 J	NS	127 U	127 U	126 U	5250	46.6 J R	5800
	ug/L	4.7 J	2.6 U	2.6 U	NS	2.6 U	2.6 U	2.8 U	2.5 U	2.5 U	2.5 U
	ug/L	4.4 U	4.4 U	4.4 U	NS	4.4 U	4.4 U	4.4 U	4.9 U	4.9 U	4.9 U
	ug/L	5.4 J	3.1 U	12.9 J	NS	3.1 U	5.2 J	3.1 U	4.6 J	3.7 U	5.7 J
	ug/L	130	157	5.6 U	NS	43.9 J R	40.6 J R	12.9 J R	27.6 R	81.7 J	13.3 J
	ug/L	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.65 J	0.6 U	0.8 U
	ug/L	115 U	114 U	114 U	NS	114 U	114 U	115 U	340 J	27.4 U	352 J
	ug/L	3.1 J	4.1 J	1.1 U	NS	1.1 U	1.1 U	1.1 U	0.59 U	1.4 J	0.6 U
	ug/L	0.08 J	0.07 U	0.04 U	NS	0.04 U	0.04 U	0.04 U	0.07 U	0.07 UJ	0.07 U
	ug/L	4 U	4 U	4 U	NS	4 U	4 U	4 U	4.1 U	4.1 U	4.2 J
	ug/L	952 U	949 U	908 U	NS	951 U	950 U	952 U	721 U	727 U	724 U
	ug/L	0.69 U	0.7 U	0.7 U	NS	0.7 U	0.69 U	0.7 U	1.1 UJ	0.8 U	1.1 U
	ug/L	4.2 U	4.2 U	4.2 U	NS	4.2 U	4.2 U	4.2 U	6.6 UJ	6.7 U	6.7 U
	ug/L	4100 J	3870 J	1540 J	NS	3980 J	4050 J	3980 J	267 J	3610 J	240 J
	ug/L	1.2 U	1.2 U	1.2 U	NS	1.2 U	1.2 U	1.2 U	1.2 U	1.8 U	1.2 U
	ug/L	3.7 U	3.7 U	3.7 U	NS	3.7 U	3.7 U	3.7 U	3.3 U	3.3 U	3.3 U
	ug/L	4.9 J	1.9 U	12.1 J R	NS	1.9 U	3.7 J	4.1 J	13.9 R	3.1 U	13.1 J
	ug/L	5 U	6 U	5 U	NS	5 U	5 U	5 U	5 UJ	5.2 U	8.3 U
en	mg/L	0.01 U	0.01 U	0.01	NS	0.01 U	0.01 U	0.01 U	0.02	0.15	0.01
ocarbons	mg/L	NS	0.39 U	0.37 U	NS	NS	NS	NS	NS	0.44 U	NS
	mg/L	NS	NS	NS	NS	NS	NS	NS	0.41 U	0.1	NS
	standard units	NS	NS	NS	NS	0.1	0.1 U	0.1 U	0.13	NS	NS

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
RINSATE BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-17	SEAD-24	SEAD-24	SEAD-24	25	SEAD-25	SEAD-26	SEAD-26	SEAD-45	SEAD-45
	SAMPLE DATE	10/22/93	11/30/93	11/30/93	10/22/93	02/06/94	12/03/93	11/17/93	10/25/93	10/26/93	11/09/93
	ES ID	SS17-18R	SB24-1.1R	SB24-1.1RRE	SS24-9R	MW25-1R	SB25-2.1R	SB26-2.1R	SS26-3R	SS45-5R	TP45-4R
	LAB ID	202056	205881	205881	202088	210542	206054	204831	202248	202510	204029
UND	UNITS										
S							RINSATE				
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	1 J
	ug/L	10 U	10 U	NS	10 U	17	10 U	10 U	10 U	10 U	3 J
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
total)	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
pene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ropene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
one	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
thane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	NS	NS	NS	NS	ND	10 U	ND	NA	NS	NS
	ug/L	1.2 U	1.1 U	NS	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
	ug/L	1.2 U	1.1 U	NS	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
	ug/L	0.12 U	0.11 U	NS	0.13 U	0.12 U	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U
	ug/L	0.12 U	0.11 U	NS	0.13 U	0.12 U	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U
	ug/L	2.7 U	2.5 U	NS	2.8 U	2.7 U	2.5 U	2.8 U	2.4 U	2.4 U	2.5 U
	ug/L	0.12 U	0.11 U	NS	0.13 U	0.12 U	0.11 U	0.12 U	0.11 U	0.11 U	0.11 U
	ug/L	1.2 U	1.1 U	NS	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U
	ug/L	0.57 U	0.54 U	NS	0.61 U	0.57 U	0.53 U	0.57 U	0.52 U	0.11 U	0.53 U
	ug/L	120 U	110 U	NS	130 U	120 U	110 U	120 U	110 U	110 U	110 U
	ug/L	120 U	110 U	NS	130 U	120 U	110 U	120 U	110 U	110 U	110 U
	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	5 J	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
e	ug/L	0.13 U	0.29 J	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	1.1 UJ	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
otoluene	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
otoluene	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
	ug/L	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
RINSATE BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-17	SEAD-24	SEAD-24	SEAD-24	25	SEAD-25	SEAD-26	SEAD-26	SEAD-45	SEAD-45
	SAMPLE DATE	10/22/93	11/30/93	11/30/93	10/22/93	02/06/94	12/03/93	11/17/93	10/25/93	10/26/93	11/09/93
	ES ID	SS17-18R	SB24-1.1R	SB24-1.1RRE	SS24-9R	MW25-1R	SB25-2.1R	SB26-2.1R	SS26-3R	SS45-5R	TP45-4R
	LAB ID	202056	205881	205881	202088	210542	206054	204831	202248	202510	204029
ND	UNITS						RINSATE				
ANICS											
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
her	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
opropane)	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
opylamine	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
methane	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
ne	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
phenol	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
adiene	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
l	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
l	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
nylether	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
ylphenol	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
nine	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
nylether	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	25 U	26 U	NS	25 U	25 U	27 U	26 U	26 U	26 U	26 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	1 J	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
ne	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
alate	ug/L	10 U	10 U	NS	10 U	10 U	11 U	27	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	0.8 J	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
ne	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
e	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	NS	10 U	10 U	11 U	10 U	11 U	10 U	10 U

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
RINSATE BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SEAD-17	SEAD-24	SEAD-24	SEAD-24	25	SEAD-25	SEAD-26	SEAD-26	SEAD-45	SEAD-45
	SAMPLE DATE	10/22/93	11/30/93	11/30/93	10/22/93	02/06/94	12/03/93	11/17/93	10/25/93	10/26/93	11/09/93
	ES ID	SS17-18R	SB24-1.1R	SB24-1.1RRE	SS24-9R	MW25-1R	SB25-2.1R	SB26-2.1R	SS26-3R	SS45-5R	TP45-4R
	LAB ID	202056	205881	205881	202068	210542	206034	204831	202248	202510	204029
ND	UNITS						RINSATE				
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
e)	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.54 U	0.54 U	NS	0.56 U	0.61 U	0.54 UJ	0.54 U	0.52 U	0.52 U	0.5 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.11 U	0.11 U	NS	0.11 U	0.12 U	0.11 UJ	0.11 U	0.1 U	0.1 U	0.1 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	0.054 U	0.054 U	NS	0.056 U	0.061 U	0.054 UJ	0.054 U	0.052 U	0.052 U	0.05 U
	ug/L	5.4 U	5.4 U	NS	5.6 U	6.1 U	5.4 UJ	5.4 U	5.2 U	5.2 U	5 U
	ug/L	1.1 U	1.1 U	NS	1.1 U	1.2 U	1.1 UJ	1.1 U	1 U	1 U	1 U
	ug/L	2.2 U	2.2 U	NS	2.3 U	2.4 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2 U
	ug/L	1.1 U	1.1 U	NS	1.1 U	1.2 U	1.1 UJ	1.1 U	1 U	1 U	1 U
	ug/L	1.1 U	1.1 U	NS	1.1 U	1.2 U	1.1 UJ	1.1 U	1 U	1 U	1 U
	ug/L	1.1 U	1.1 U	NS	1.1 U	1.2 U	1.1 UJ	1.1 U	1 U	1 U	1 U
	ug/L	1.1 U	1.1 U	NS	1.1 U	1.2 U	1.1 UJ	1.1 U	1 U	1 U	1 U
	ug/L	1.1 U	1.1 U	NS	1.1 U	1.2 U	1.1 UJ	1.1 U	1 U	1 U	1 U
	ug/L	44.5 U	44.6 U	NA	44.9 U	41.8 U	44.9 U	44.8 U	44.7 U	46.7 J	44.6 U
	ug/L	52.3 U R	52.4 U	NA	52.8 U	21.4 UJ	52.8 U	52.7 UJ	52.5 U	52.8 U	52.4 U
	ug/L	0.99 U	1.4 U	NA	0.99 U	1.4 U	1.4 U	0.99 U	0.99 U	0.99 U	1.2 J
	ug/L	1 J R	1.1 J	NA	0.9 U	3.5 U	0.98 J	1.3 J	4 J	2.6 J	2.9 J
	ug/L	0.3 U	0.3 U	NA	0.3 U	0.4 U	0.3 J	0.3 U	0.3 U	0.3 U	0.3 U
	ug/L	3.3 U	3.3 U	NA	3.3 U	2.1 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U R
	ug/L	2730 J	7270	NA	74.6 J R	302 J	199 J	7390	20400	11500	15400
	ug/L	2.5 U	2.5 U	NA	2.5 U	2.6 U	4.1 J	3.9 J	2.5 U	2.5 U	2.5 U
	ug/L	4.9 U	4.9 U	NA	4.9 U	4.4 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
	ug/L	3.7 U	3.8 J	NA	4 J	13 J	3.7 U	5.2 J	4.1 J	6.4 J	4.9 J
	ug/L	33.3 R	160	NA	15.7 J R	19.6 J	103 R	101	25 J	15.2 J	11.1 J R
	ug/L	0.59 U	0.5 U	NA	0.6 U	0.8 J	0.5 U	0.5 U	0.79 U	0.79 U	0.79 U
	ug/L	161 R	443 J	NA	27.5 U	114 U	73 J	467 J	1230 J	704 J	930 J
	ug/L	0.87 J	2.3 J	NA	0.8 U	1.1 U	1.7 J	2 J	0.8 U	0.8 U	0.61 J
	ug/L	0.07 U	0.07 UJ	0.07 UJ	0.07 U	0.04 U	0.07 J R	0.07 U	0.07 U	0.07 U	0.07 U
	ug/L	4.1 U	4.1 U	NA	4.1 U	4 U	9.1 J	4.1 U	5.9 J	4.1 J	4.1 U
	ug/L	721 U	723 U	NA	728 U	902 U	728 U	727 U	725 U	728 U	723 U
	ug/L	1.1 U	1.1 U	NA	1.1 U	0.7 U	1.1 U	1.6 J	1.1 U	1.1 U	1.1 UJ
	ug/L	6.6 U	6.7 U	NA	6.7 U	4.2 U	6.7 U	6.7 UJ	7.3 J	7.1 J	6.7 UJ
	ug/L	232 J	575 J	NA	171 J	1850 J	4090 J	353 J	740 J	418 J	545 J
	ug/L	1.2 U	1.2 U	NA	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ
	ug/L	3.3 U	3.3 U	NA	3.3 U	3.7 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
	ug/L	55.5	15.1 J	NA	21	10.9 J	5.3 J	15.8 J R	25.8	18.8 J	24.8 J
	ug/L	8.3 U	5 U	NA	1.3 U	5 U	6 U	5.8 U	8.3 U	8.3 U	5 U
n	mg/L	0.03	0.02	NS	0.03	0.01	0.01	0.01	0.01	0.01	0.01
ocarbons	mg/L	NS	NS	NS	0.47 U	0.43 U	NS	0.37 U	0.39 U	NS	NS
	mg/L	NS	0.43 U	NS	NS	0.1	0.41 U	0.11	NS	NS	NS
	standard units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
TRIP BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION									
	SAMPLE DATE	11/01/93	11/02/93	11/03/93	11/15/93	11/16/93	11/17/93	11/18/93	11/19/93	11/30/93
	ES ID	TB11-1	TB11-2	TB11-3	TB11-16	TB11-16	TB11-17	TB11-18	TB11-19	TB11-30
	LAB ID	202945	203214	203413	204635	204659	204981	205064	205060	205882
OUND	UNITS									
CS										
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	5 J	17	10 U	11 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
de	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
opropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
anone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	NS	NS	NS	NS	NS	NA	NA	NA	NS

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
TRIP BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION						SEAD-13			
	SAMPLE DATE	12/06/93	01/26/94	12/07/93	12/15/93	12/16/93	12/17/93	01/06/94	01/20/94	01/22/94
	ES ID	TB12-6	TB12-6	TB12-7	TB12-15	TB12-16	TB12-17	TB1-6	TB1-20	TB1-22
	LAB ID	206275	209414	206422	207100	207032	207189	207953	209095	209262
OUND	UNITS									
CS										
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	17	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
de	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
hane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
opropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
anone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	NS	NA	NS	NS	NS	NS	NS	NA	NA

SENECA ARMY DEPOT
EXPANDED SITE INSPECTION
QUALITY ASSURANCE / QUALITY CONTROL SAMPLES
TRIP BLANKS

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION									
	SAMPLE DATE	01/24/94	01/25/94	02/01/94	02/02/94	02/03/94	02/04/94	02/05/94	02/06/94	02/11/94
	ES ID	TB1-24	TB1-25	TB2-1	TB2-2	TB2-3	TB2-4	TB2-5	TB2-6M	TB2-11
	LAB ID	209338	209342	210064	210196	210264	210500	210483	210546	209096
UND	UNITS									
CS										
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	18	18	19	18	19	10 U	21	24	19
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
(total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	4 J	10 U	10 U	10 U	10 U	10 U	10 U	6 J	6 J
ne	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
le	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ne	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U
propene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
anone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	ug/L	NA	NA	NA	NA	NA	NA	NA	ND	NA

COMMENTS BY
ENVIRONMENTAL PROTECTION AGENCY (EPA) - REGION II
THE REVISED DRAFT EXPANDED SITE INSPECTION (ESI)
FOR
THE SEVEN HIGH PRIORITY SOLID WASTE
MANAGEMENT UNITS (SWMUS)
SEADs 4, 16, 17, 24, 25, 26 AND 45

Comment #9

Following is EPA's response to the issue regarding Antimony and demonstration of compliance to the set ARAR. Please note, acronyms used are defined as follows: IDL-Instrument Detection Limit used in inorganic analytical methods as the lowest concentration able to be quantified within set limits of precision and accuracy; CRDL-Contract Required Detection Limit specified as the reporting limit in the Inorganic Statements of Work for NYSDEC and EPA Contract Lab Program (CLP); and CRQL-Contract Required Quantitation Limit specified in the Organic Statement of Work for NYSDEC and EPA CLP, also the lowest concentration able to be quantified within set limits of precision and accuracy.

With regard to Antimony (Sb), for those results reported as non-detect, ARAR compliance is only demonstrated if the IDL reported is less than the ARARs. It is recommended that a method whose IDL is equal to or below the state and federal groundwater ARAR for Sb be used. This IDL can be achieved by using either GFAA (graphite furnace atomic absorption), ICP, or ICP-MS (Inductively Coupled Plasms-Mass Spectrometry) instruments. These instruments are specified for use in the NYSDEC CLP, EPA SW-846, EPA MCAWW, and EPA ORD methods. Note, the IDL obtained is laboratory, analyst, and matrix dependent. This logic applies to all metals, that is, the IDL should be specified and compared to the ARAR for compliance determinations.

This principle extends into any future investigation conducted at Seneca Army Depot. The current Generic Installation RI/FS Work Plan should be modified as follows. Appendix C, Chemical Data Acquisition Plan, Section 7.0 should state that SEDA will ensure that the contracted lab will produce data that achieves the established ARARs by utilizing correct analytical methods. Table C-2 currently lists analytical methods per analyte and their corresponding CRDLs for inorganics. However, these CRDLs (and associated IDLs) and CRQLs may change as analytical techniques improve. ARARs may also change as time elapses. Therefore, it is imperative that SEDA evaluate the ARARs and communicate them to the lab upfront in order to select an effective method whose IDLs (for inorganics) and CRQLs (for organics) are equal to or below the ARAR. Barring any unforeseen problems, compliance will then be demonstrated and project quantitative Data Quality Objectives fulfilled.

Effective communication with the laboratory regarding expected sample concentration ranges, required ARARs and thus, necessary IDLs and CRQLs, is essential to producing data of the required quality in a cost effective manner.

Response #9 Agreed. Prior to beginning future RI work at SEDA, we will communicate with the laboratory about expected sample concentration ranges, required ARARs and necesary IDLs and CRQLs. Appendix C, Section 7, of the Generic Installation RI/FS Workplan will be revised to state that SEDA will ensure that the contracted lab will produce data that achieves the established ARARs, if possible.

General Risk Assessment Comments

Comment #3 ES took exception to this comment, contending that the scope of the ESI does not include a full assessment of the exposure pathways and that the site has been recommended for further investigation and that a full assessment of the exposure pathways will be conducted during the RI/FS. We agree with this response and concur that a full assessment of the exposure pathways at the site should be conducted during the RI/FS process, including an assessment of the exposure to the subsurface soils.

SEAD-25

Comment #1 It is still our contention that the contours presented for this site have little basis for their construction. A review of the topography does not indicate that the contours in the vicinity of MW25-3 should close as depicted. In addition, the contours drawn south of wells MW25-1 and MW25-2 should also be dashed.

Response #1 Agreed. The contour lines south of MW25-1 and MW25-2 and the contour lines west of MW25-3 have been removed from Figure 3.5-1, Groundwater Contour Map.

This groundwater map will be refined during the RI/FS with groundwater elevation data from ten additional overburden monitoring wells which will be installed during the field investigation at this site.

SEAD-45

Comment #1 While we agree with the rationale for not using data from monitoring well MW-5 to construct the potentiometric contour map, information is available for monitoring well MW-1 and this well should be used. In addition, during the RI/FS all available wells should be surveyed and their water levels used for the construction of a comprehensive potentiometric contour map for this SEAD.

Response #1 Agreed. The groundwater contour map for SEAD-45 has been revised and incorporates data from monitoring well MW-1. A more comprehensive potentiometric contour map will be developed during the RI/FS for SEAD-45. The Project Scoping Plan for SEAD-45 states that groundwater elevations will be measured during each of the two groundwater sampling programs.

COMMENTS BY
ENVIRONMENTAL PROTECTION AGENCY (EPA) - REGION II
THE REVISED DRAFT EXPANDED SITE INSPECTION (ESI)
FOR
THE SEVEN HIGH PRIORITY SOLID WASTE
MANAGEMENT UNITS (SWMUS)
SEADs 4, 16, 17, 24, 25, 26 AND 45

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Response #1 Agreed. The groundwater contour map for SEAD-45 has been revised and incorporates data from monitoring well MW-1. A more comprehensive potentiometric contour map will be developed during the RI/FS for SEAD-45. The Project Scoping Plan for SEAD-45 states that groundwater elevations will be measured during each of the two groundwater sampling programs.

COMMENTS BY
ENVIRONMENTAL PROTECTION AGENCY (EPA) - REGION II
THE DRAFT EXPANDED SITE INSPECTION (ESI) REPORT FOR
THE SEVEN HIGH PRIORITY SOLID WASTE MANAGEMENT UNITS (SWMUs)
SEAD 4,16,17,24,25,26AND 45

General Comments

Comment #1 Analyte concentration maps in the report were computer contoured. In many areas of the site, the contamination appears to be isolated to a specific area around a structure, rather than uniformly distributed across the area. The software used, however, does not consider isolated realizations (nugget effect) but rather interpolates and extrapolates the data as if they were uniformly distributed across the site. In these instances, such contouring codes are inappropriate and misleading. Due to the limited scope of sampling at many of these sites, it seems as if manual contouring of analytical data is appropriate. This forces one to evaluate the "reasonableness" of the contouring as it is conducted. In instances where the sparsity of data points do not justify contouring, it is acceptable to simply post the analytical result on the figure next to the sampling location.

Response #1 Agreed. The data in the figures presented in Section 4 of the report have only been posted. Statistical analyses of the analytical data were performed by calculating variograms of the individual data sets for each analyte considered for plotting. The variograms showed the variance in the reported data as a function of distance from each individual sample location. All of the variograms produced showed irregular patterns in the variance of the individual data sets, and therefore, did not support data contouring.

Comment #2 The discussion on the nature and extent of contamination should include a section which summarizes the Tentatively Identified Compounds (TICs) which were identified by media at each of the sites. This will allow the reader to better evaluate the appropriateness of the proposed action for each SWMU.

Response #2 Agreed. Discussions summarizing tentatively identified compounds have been included in Section 4, Nature and Extents of Contamination.

Comment #3 Analytical data which are cited in the text should also include any appropriate data validation qualifiers which are included in the data summary tables.

Response #3 Agreed. The data validation qualifiers have been included with the analytical data cited in the text.

Comment #4 The document commonly references reported concentrations to the NYSDEC TAGM. This is useful, however, the TAGM clearly indicates that the values are based on an assumed Total-Organic-Carbon (TOC) content of one percent. It is our understanding that TOC data have not been collected. For

clarity, this point should be mentioned in the text and in footnotes on appropriate tables.

Response #4 Agreed. TOC data were not collected as part of this ESI investigation because it was not specified in the EPA approved workplan. In retrospect, it would have been useful to collect TOC information for inclusion in this report. Should further investigation or remedial activities be conducted at SEDA, TOC data will almost certainly be part of the scope of work.

Comment #5 The groundwater contour maps for the sites should include the date on which the water levels were measured. The text which discusses the hydrogeology of each site should also discuss if significant variation in the water levels occurred between the three rounds of measurements and discuss potential seasonal changes. For site for which known or suspected source areas are available, it would be useful to identify them on the groundwater contour maps.

Response #5 Agreed. The date on which the water levels were measured has been added to the groundwater contour maps.

Comment #6 For sites at which surface and subsurface soil samples were collected and analyzed, the text should discuss these results separately instead of discussing soil results as a whole. Differentiating between surface and subsurface samples will aid in evaluating the necessary scope of any further investigative work at some sites. Also, it would be helpful to segregate data for surface and subsurface samples in the data tables.

Response #6 Agreed. The results of the surface and subsurface soil analyses were revised and discussed as separate media. However, segregation of the analytical results in the data tables in Section 4 would provide no additional contribution to the reader's understanding of the information presented in the text. Therefore, the presentation format of the summary analytical tables has not been modified.

Comment #7 The terms "till"and "overburden" seem to be used interchangeably in the text. These terms are not equivalent and one term should be adopted for clarity, if appropriate.

Response #7 Agreed. The soils overlying bedrock at SEDA are glacial in origin and the term "till"has been adopted, when appropriate, in the text.

Comment #8 The site plans in Section 1 have insufficient detail. The text under Physical Site Setting describes significant site features which were not included on the maps. The figures should be revised to enable the reader to locate the site features described in the text.

Response #8 Agreed. The site plans in Section 1 have been revised to include the site features described in the text under Physical Site Settings.

Comment #9 Section 4-Nature and Extent of Contamination - Groundwater Analysis Results Tables - All these tables should be revised to include Federal MCLs and action levels. The "Number Above Criteria" and corresponding text discussions should then be corrected. For example, SEAD-4 metals discussion should also include cadmium. The detection limit for antimony is shown to be greater than 50ppb, but the ARAR is 3ppb. An explanation should be given as to why an analytical method was not used that could detect below the criteria values.

Response #9 A) Agreed. The Groundwater Analysis Results tables have been revised to include Federal MCLs and action levels. The "Number Above Criteria" and corresponding text discussions have been corrected.

B) Exception. The contract required quantitation limit for antimony in groundwater and surface water in the EPA approved workplan was 60 μg/L. The laboratory detection limit for this element is approximately 50 μg/L. However, should the EPA require a lower detection limit for this element in future sample analyses, more sensitive laboratory techniques can be utilized.

General Risk Assessment Comments

Comment #1 While a quantitative exposure pathway analysis is a necessary complement to the evaluation of environmental sampling results in recommending appropriate future actions, many of the exposure route/receptor analyses conducted in Section 5.0 Health and Environmental Concerns are inappropriate and in some cases too general to support the site-specific recommendations for future action.

Response #1 Agreed. However, the objective of this ESI was to determine whether or not a threat existed at the individual AOCs. As 6 of the 7 AOCs have been recommended for RI/FS investigations, (The 7th AOC, SEAD 24, is being recommended for a Removal Action) a more in-depth analysis of exposure route/receptor pathways will be completed for these sites.

Comment #2 Discussion of the environmental sampling results with qualifiers such as "low" is subjective and inappropriate in an analysis of potential human and environmental health risks, particularly since seemingly "low" concentrations of certain chemicals (e.g., PCBs) can still pose health risks. Similarly, "low concentration and/or only a small number of samples exceed their respective TAGMs" are inappropriate bases for dismissing chemicals from consideration as chemicals of potential concern.

Response #2 Agreed. The word "low" is subjective and has been removed from the majority of the text and all of the text in the discussion of affected media in Section 5 of the report. As stated in Response #1 of the general Risk Assessment comments, most of the 7 high AOCs are being recommended for RI/FS investigations. These investigations will include more in-depth analyses of minor TAGM exceedances as well as addressing them as chemicals of potential concern.

Comment #3 Consideration should be given to the potential for human exposure with chemical contaminants in subsurface soil. Such exposure may be possible for utility or construction workers who may have to open shallow trenches in the course of their activities.

Response #3 Exception. A pathway analysis such as human exposure with chemical contaminants in subsurface soils is beyond the scope of this ESI. Complete pathway analyses will be performed as part of the RIs being recommended for the majority of the 7 high priority AOCs.

Comment #4 The source/release mechanism/pathway analyses provided in the Exposure Pathway Summary figures for each site should be reviewed and revised, as appropriated. For example:

- in Figure 5.2-1 "wind" seems to be the "release mechanism" while "dust" appears to be the potential exposure "pathway"; and
- in Figure 5.3-1 and 5.4-1 "infiltration/percolation" and "runoff and erosion" seem to be secondary release mechanisms from soil is stack emissions from the Abandoned Deactivation Furnace is the "primary source".

Response #4 Agreed. The source/release mechanism/pathway analyses provided in the Exposure Pathway Summary figures have been revised, as appropriate.

Comment #5 Similarly, the exposure route/receptor analyses provided in the Exposure Pathway Summary figures (5.2-1 through 5.8-1) for each site should be reviewed and revised as appropriate. For example, in each of the figures, inadvertent "ingestion" of soil by site workers or visitors is as likely a potential exposure route as "dermal contact" with soil even though "adults do not normally eat soil". Both exposure routes shouid be considered.

Response #5 Agreed. Ingestion of soil by site workers or visitors has been included as a potential exposure route.

Specific Comment Not Related to a Specific SWMU

Comment #1 Table 1.1-3, Page 2-4 have no column which indicates the measured analyte.

Response #1 Agreed. Table 1.1-3 has been revised to include measured analyte columns.

SEAD-4: Munition Washout Facility Leachfield:

Comment #1 Figure 4.1-2: The report states that soil sampling was performed at locations that had the greatest potential to be sources of contamination. The data indicate that many "hot spots" are areas of isolated contamination, for example, next to a loading dock. However, the data were contoured as if the contamination was widespread, due to the nature of the contouring software.

An example of this is the copper concentration map Figure 4.1-2. The data indicates several areas of high copper concentrations; near the pond, at the water tank, and near former building T30. These areas could be isolated areas of surficial contamination. However, the data have been contoured to show widespread copper contamination (the extensive blue map areas) based on no apparent data. In addition, the map shows "blue" areas of the site that exceed cleanup standards for which no supporting data exists. If isolated areas of contamination exist (the nugget effect), such contouring efforts are inappropriate.

Response #1 Agreed. As stated in General Comments response #1, statistical analyses of the variance in the analytical data, as a function of distance from individual sample points, did not support the contouring of these data. Therefore, the analytical data in Figure 4.1-2, as well as Figure 4.1-1, have only been posted. The Remedial Investigation being drafted for this site is utilizing the data presented in this report to locate sampling points which would provide sufficient spatial coverage of the "hot spots" to allow for a more meaningful contouring of the analytical data.

Comment #2 Page 4-24, Section 4.1.4.7: The text discussed groundwater results in this section which is for surface water. The discussion in this Section is inconsistent with Section 4.1.3.7 which is for groundwater.

Response #2 Agreed. The paragraph in Section 4.1.4.7, which discusses groundwater, has been moved to Section 4.1.3.7.

Comment #3 Page 5-2, Section 5.2.1, 1st Paragraph: A statement should be added which clarifies that the Munitions Washout Facility is currently inactive.

Response #3 Agreed. A statement has been added on page 5-2 clarifying the inactive status of the SEAD-4 Munitions Washout Facility.

Comment #4 Page 5-2, Section 5.2.1, 2nd Paragraph: A conceptual discussion of groundwater/surface water interaction should be included. The basis for the statement that surface water is not expected to flow to Indian Creek should be provided.

Response #4 Agreed. Section 5.2.1, 2nd paragraph was revised to include a discussion of groundwater interception into drainage swales in the area of SEAD-4 as well as a discussion of expected surface flow from SEAD-4 into Indian Creek.

Comment #5 Page 5-4, Section 5.2.2.1, 2nd Paragraph: To some readers, the mention of "hunters" may appear to be inconsistent with the statement made earlier in Section 5.2.2, that "Within the boundaries of the SEDA, human and vehicular access to the site is restricted..." The status of hunting activities at SEDA should be clarified.

Response #5 Agreed. Deerhunting is conducted during the fall season within the boundaries of the SEDA in a controlled manner at assigned locations that include this site. A sentence has been added in Section 5.2.2.1, page 5-4, clarifying this activity.

SEAD-16: Abandoned Deactivation Furnace (Bldg. S-311)

Comment #1 Figure 4.2-2: The contouring of this data is misleading. The "blue" areas around the perimeter of the contouring grid indicate higher lead concentrations than are indicated by the data. These are edge effects produced by the software because the grid extends beyond the data and values are extrapolated beyond the data set. The data indicate that the lead concentrations decrease away from the furnace more rapidly than indicated in Figure 4.2-2.

Response #1 Agreed. As stated in General Comments response #1, statistical analyses of the variance in the analytical data, as a function of distance from individual sample points, did not support the contouring of these data. Therefore, the analytical data in Figure 4.2-2, as well as Figure 4.2-1, have only been posted. The Remedial Investigation being drafted for this site is utilizing the data presented in this report to locate sampling points which would provide sufficient spatial coverage of the site to allow for a more meaningful contouring of the analytical data.

Comment #2 Page 5-7, Section 5.3.1: A statement should be added to this section regarding the floor of the Abandoned Deactivation Furnace as infiltration into the ground is a possibility if the floor is dirt. It is not until Page 5-10 that it is mentioned that the floor is concrete.

Response #2 Agreed. A statement has been added to page 5-8, Section 5.3.1, indicating that infiltration into the ground of the standing water within the building is not considered to be a release mechanism because the floor of the structure is concrete.

Comment #3 Page 5-7, Section 5.3.1, 1st Paragraph: "There <u>was</u> not pollution control devices installed" should read "There <u>were</u> no...."

Response #3 Agreed. The sentence has been revised on page 5-7, Section 5.3.1.

Comment #4 Page 5-8, 1st Paragraph: Depending on the height of the Abandoned Deactivation Furnace stack, emissions may have been dispersed and deposited at some distance from the facility and not just "to the soil surrounding the building". A qualitative discussion of the likely area which may have been effected by the emissions should be provided.

Response #4 Agreed. Dispersion and deposition of particulates may have occurred at an as yet undetermined distance from the building. The text has been revised to include the statement "...to the soils in the vicinity of SEAD-16.

Comment #5 Page 5-11, Section 5.3.3,3rd Paragraph: The term "sediment samples" should be clarified as it apparently refers to "soil samples collected from spoils present within the building" (1st Paragraph), perhaps underlying the standing water present in the building. Spoils is not a precise term. This material should be described.

Response #5 Agreed. The term "sediment samples" has been changed to "soil samples". In addition, the term "spoils" has been revised to more accurately describe the material collected within the building.

Comment #6 Page 5-12, Section 5.3.3, 5th Paragraph: it is stated that "No significant impacts were detected in the standing water samples..."Chemical contaminants were measured in surface water, not "impacts".

Response #6 Agreed. The sentence on page 5-12 has been changed to read that "No significant concentrations of contaminants were measured...".

SEAD-17: Existing Deactivation Furnace (Bldg 367):

Comment #1 Although soil contamination appears to be concentrated around the furnace building, the extent of metals contamination, especially to the north and southeast, has not been adequately addressed.

Response #1 Agreed. The extent of metals contamination to the North and Southeast of SEAD-17 is not adequately defined. The purpose of this ESI was to identify areas where contamination may have occurred. Based upon the results presented in this ESI report, additional surface soil sampling is being recommended for the northern and southeastern portions of SEAD-17 as part of an RI/FS which is being prepared for this site.

Comment #2 Figure 5.4-1: "Volatile Emissions" is included as a primary release mechanism yet no mention of this mechanism is made in the text. Appropriate discussion of this primary release mechanism should be added to the text.

Response #2 Agreed. The text has been revised to include Volatile Emissions as a primary release mechanism.

Comment #3 Page 5-16, Section 5.4.3, 3rd Paragraph: The meaning of the parenthical values for cadmium, copper, lead and zinc is not clear, thus they should be described or eliminated. Be inference they may be the number of times the TAGM values were exceeded for each metal.

Response #3 Agreed. The 3rd paragraph of page 5-16, Section 5.4.3 has been revised.

SEAD-24: Abandoned Powder Burning Pit

Comment #1 Figure 3.4-3: A review of the available water level measurements indicates that the groundwater flow direction in the vicinity of this site varies and at times is more to the northwest, towards Kendaia Creek.

Response #1 Agreed. However, the water level measurements reported from the well development and the groundwater sampling activities were collected over periods of more than two months. These data cannot be used for an accurate determination of variations in groundwater flow directions. The text has been revised to provide a qualitative discussion of the possible variations in groundwater flow directions.

Comment #2 Page 3-26, Section 3.4.3, 1st Paragraph: Kendaia Creek is approximately 150 feet north of the site, not east. The text should be corrected.

Response #2 Agreed. The text has been revised on page 3-26, Section 3.4.3.

Comment #3 Page 3-26, Section 3.4.3, 2nd Paragraph: "the till aquifer" is referred to. This misrepresents the area's hydrogeology. This till is not an "aquifer".

Response #3 Agreed. The intent of the text was to characterize the nature of the groundwater in the till portion of the till/weathered shale aquifer. The text has been revised to properly qualify the subject of the discussion.

Comment #4 Figure 4.4-1: The extent of metals contamination in soils is over represented and improperly presented in the contour map of Figure 4.4-1. The map shows that the extent of arsenic contamination to the northeast is undefined.

Response #4 Agreed. The extent of arsenic contamination to the northeast is undefined. In addition, a statistical analysis of the variance in the analytical data, as a function of distance from individual sample points, did not support the contouring of these data. Therefore, the analytical data in Figure 4.4-1 has only been posted.

Comment #5 Page 5-17, Section 5.5.1, 2nd Paragraph: it is stated that "Surface water, sediment, and groundwater are secondary release mechanisms". These environmental media may be sources or pathways but not "release mechanisms".

Response #5 Agreed. The text has been revised in the 2nd paragraph of Section 5.5.1.

Comment #6 Page 5-21, Section 5.5.3, 5th Paragraph: The statement that "...the distribution of the metals is limited to the surface soils at the site" seems inappropriate in that inorganic chemicals would be naturally occurring in both surface and subsurface soils at the site. As it seems that the reference is to "elevated" inorganic analyte concentrations in surface soil, the statement should be revised.

Response #6 Agreed. The statement on page 5-21, Section 5.5.3, paragraph 5, has been revised.

SEAD-25: Fire Training and Demonstration Pad

Comment #1 Figure 3.5-1: The groundwater contours shown in this figure are not supported by the available data. At the very least, the contours should be dashed because they are inferred. The other available water level measurements should be reviewed to determine if they support the inferred groundwater flow pattern proposed for this site.

Response #1 Exception. A review of the data utilized for Figure 3.5-1 indicated that the majority of the groundwater contours are supported by these data. The southern and/or western portions of potentiometric contour lines 740, 741 and 742 have been dashed as they were based primarily on assumptions of groundwater flow direction and local topography.

Comment #2 Page 7-3, Section 7.6: States that the BTEX contamination is limited to the western and central portions of the pad. However, no sampling was performed outside the pad to determine if any spills occurred off the pad. The presence of BTEX in groundwater outside the pad indicates that either BTEX was spilled outside the pad or that BTEX migrated through the pad to the groundwater. Therefore, further limited investigations are warranted, consisting of radial soil sampling outside the pad and additional monitoring wells. The absence of BTEX contamination at MW25-1 indicates that groundwater contamination may not be a widespread problem.

Response #2 Agreed. The text has been revised to include the following: "Based upon the results of this ESI, BTEX contamination appears to be...". In addition, further investigations are being proposed as part of an RI/FS which is being prepared for this site.

SEAD-26: Fire Training Pit and Area

Comment #1 Page 4-87, Section 4.6.1: Four monitoring wells were installed not three as stated.

Response #1 Agreed. The sentence on page 4-87, Section 4.6.1 has been corrected.

Comment #2 Table 4.6-2: Zinc was detected above ARARs and Nickel above the Federal MCL of 100 ppb, but the "maximum detected" column shows NA in both cases. The table should be corrected.

Response #2 Agreed. Table 4.6-2 has been corrected.

Comment #3 Cyanide was detected in surface water above an EPA standard. However, sediment or groundwater samples were not analyzed for cyanide to determine if cyanide migration is a concern.

Response #3 Exception. All of the samples collected at SEAD-26 were analyzed for cyanide, including all sediment and groundwater samples. None of the

groundwater or sediment samples had detectable concentrations of cyanide, therefore, these results were not included in the analytical summary tables for these media in Section 4 of the report. The complete analysis results for SEAD-26 are presented in Appendix E.

SEAD-45: Open Detonation Facility

Comment #1 Figure 3.7-5: If they are available, this figure should incorporate water level measurements from the existing, nearby monitoring wells identified in Figure 4.7-1.

Response #1 Agreed. However, the only additional well shown in Figure 4.7-1 for which calculated groundwater elevations exist is MW-5 (Table 3.7-1). MW-5 is located to the west of a groundwater divide which was identified during an RI performed at the Open Burning Grounds located adjacent to SEAD-45. Therefore, this additional information could not be used in Figure 4.7-1. However, the groundwater contours shown in Figure 4.7-1 were found to be similar to those observed during the OB Grounds RI which was completed in September of 1994.

Comment #2 Table 4.7.2 and the subsequent text do not mention that nickel was detected above the Federal MCL of 100 ppb. The corrections should be made.

Response #2 Agreed. The corrections to Table 4.7.2 and the subsequent text have been made.

Comment #3 Page 5-33, Section 5.8.2.2: The section heading should be revised to include volatile emissions as is the case for other sites where this potential exposure pathway is considered.

Response #3 Agreed. The section headings have been revised where appropriate.

Recommendation for Future Actions

SEAD-4: Munitions Washout Facility Leachfield

Comment #1 We concur with the conclusion that an RI/FS should be conducted for this SWMU. Based on the available information, the RI/FS scope of the RI can be focused to confirm that groundwater contamination is not present. Soil and sediment sampling should be focused on determining the volume of material which may require remediation. Antimony, beryllium, cadmium, and chromium have been detected above ARARs. Therefore, the statement ".. little or no adverse impacts to the groundwater system has occurred." should be deleted from the text and a more accurate conclusion drawn from the groundwater results should be included in this section.

Response #1 Agreed. The statement "little or no adverse impacts to the groundwater system has occurred" has been deleted from the text and a more accurate conclusion has been drawn from the groundwater results.

SEAD-16: Building S-311 Abandoned Deactivation Furnace

Comment #1 We concur with the conclusion that an RI/FS should be conducted for this SWMU. Separate from the RI/FS, SEDA may wish to consider the removal of asbestos from the building and demolition and disposal of the structure.

Response #1 Acknowledged. Removal of asbestos from the building and demolition and disposal of the structure are useful recommendations, especially in light of SEDA being placed on the Base Closure List. Should any or all of these actions be undertaken in the future, the EPA will be fully apprised of such actions well in advance of their being performed.

SEAD-17: Building 267 Existing Deactivation Furnace

Comment #1 Our discussions with SEDA and the Army Corps of Engineer-Huntsville Division, indicate that an RI/FS is planned for this SWMU. The text should state this. Lead was detected in groundwater at 32.3 ppb, exceeding the ARAR of 15 ppb. Therefor the statement "...no adverse impacts to the groundwater have occurred." should be deleted from the text and a more accurate conclusion drawn from the groundwater results should be included in this section.

Response #1 Agreed. The statement "...no adverse impacts to the groundwater have occurred." has been deleted from the text and a more accurate conclusion has been drawn from the groundwater results. In addition, the text now states that this site is being recommended for an RI/FS.

SEAD-24: Abandoned Powder Burning Pit

Comment #1 We concur with the conclusion that this site is a candidate for a removal action. As part of this action, the extent of arsenic will need to be determined. We also recommend that groundwater quality and flow directions be confirmed with a focused groundwater investigation.

Response #1 Acknowledge. Based upon the results of this ESI, a removal action of impacted surface soils has been drafted. As part of this removal action, surface soil samples and surface water and sediment samples will be collected following the removal action to confirm the absence of arsenic in surrounding surface soils. However, since the results of this ESI have demonstrated that no adverse impacts to the groundwater have occurred, additional groundwater studies are not warranted.

SEAD-25: Fire Training and Demonstration Pad

Comment #1 We concur that an RI/FS should be conducted for this SWMU. Of the seven SWMUs, this site appears to be the highest priority for further investigation.

Response #1 Agreed. The RI/FS scoping document for this site has been prepared and submitted to the EPA for review.

SEAD-26: Fire Training Pit and Area

Comment #1 Since SEDA has been proposed for the 1995 Base Closure List, it is questionable whether or not the on-going use of the Fire Training Pit and Area is necessary for the operations of SEDA. It is also possible to conduct a remedial action at this time and construct an engineered fire training facility which would have lesser environmental effects. An on-going groundwater monitoring program for this facility would document what the effects are on groundwater quality in the future. Our discussions with SEDA and the Army Corps of Engineer-Huntsville Division, indicate that an RI/FS is planned for this SWMU. The text should state this. Arsenic, beryllium, chromium, lead, nickel and zinc have been detected above ARARs. Therefore, the statement "...no adverse impacts to the groundwater have occurred." should be deleted from the text and a more accurate conclusion drawn from the groundwater results should be included in this section.

Response #1 A) Acknowledged. An RI/FS is currently being planned for this site and the text in Section 7.7 has been revised to reflect this action. Additionally, the comment suggests an engineered fire training facility will be constructed at SEDA. This may be a useful suggestion for the EPA to submit independently to SEDA.

B) Agreed. The statement "...no adverse impacts to the groundwater have occurred." has been deleted from the text and a more accurate conclusion has been drawn from the groundwater results.

SEAD-45: Open Detonation Facility

Comment #1 Based on the ES, it is apparent that the Open Detonation Facility has released chemicals to the environment. It is unclear from the text in Section 7.8 if ES is proposing to conduct a removal action on the drainage channels leading from the mound. In the same vein, conducting a removal action on the drainage channels will not be a long-term remedy unless the on-going operation of the Open Detonation Facility includes measures to minimize recurring contamination of these drainage channels. Due to its proximity to Reeder Creek, addressing SEAD-45 should be a relatively high priority. Antimony, beryllium, chromium, lead and nickel were detected in groundwater samples above ARARs. Lead at 75.6 ppb (ARAR is 15 ppb) and antimony at 52.1 ppb (ARAR is 3 ppb). The statement "..no adverse impacts to the groundwater have occurred." is incorrect and should be deleted. An accurate conclusion drawn from the groundwater results should be included in this section.

Response #1

A) Agreed. A removal action for SEAD-45 is no longer being recommended. Based upon the extent of organic and inorganic constituent found above TAGM or federal standards in the various media of SEAD-45, this site is being recommended for a remedial investigation and a feasibility study.

B) Agreed. The statement "...no adverse impacts to the groundwater have occurred." has been deleted from the text and a more accurate conclusion has been drawn from the groundwater results.

D#12

COMMENTS BY

THE NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
(NYSDEC)

AND

THE NEW YORK STATE DEPARTMENT
OF HEALTH
(NYSDOH)

COMMENTS BY
THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AND
THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) FOR
THE DRAFT EXPANDED SITE INSPECTION (ESI) REPORT FOR
THE SEVEN HIGH PRIORITY SOLID WASTE MANAGEMENT UNITS (SWMUs)
SEAD 4,16,17,24,25,26 AND 45

General Comments:

Comment #1 Site Plans need improvements: Items in the descriptive part of the site need to be indicated and labeled on the site plans. Features such as steam generation building, a berm, suspected leachfield, grassy field, concrete floor with drains, a broken concrete pad and rusted steel underground storage tank, a drainage pipe embedded in concrete berm, an open-top 4-inch vertical pipe and a 4-inch clay drainage pipe connecting the pond to the location of the former munition washout building, which are in the narrative of SEAD-4 must be shown and labeled on the site plan (Figure 1.1-12 SEAD-4). In addition, all man-made structures should be shown with lines bolder than topography lines and water bodies should be shown as shaded areas. This comment is applicable on all site plans.

Response #1 Agreed. The site plans in Section 1 have been revised to include the site features described in the text under Physical Site Settings. In addition site structures and features have been shown with line types other than that used for topographic contours.

Comment #2 Maps and tables should be placed immediately in the subsection for which they apply and not several pages later.

Response #2 Agreed. This ESI report was revised and the tables and maps were placed immediately after their reference in the text.

Comment #3 In regards to munitions and explosives, more information should be provided about munitions used at the site, their constituents and possible breakdown products.

Response #3 Acknowledged. However, the purpose of this ESI was to determine whether or not specific sites have been impacted by the release of organic or inorganic constituents. During the drafting of the 10 SWMU ESI workplan, the potential for specific groups of compounds (including nitroaromatics) to be present at these sites was evaluated from the known practices of SEDA activities and from the information contained in the SWMU Classification Report. A review of the specific types of munitions used, stored, and/or disposed of at SEDA was not required to achieve the goals of this ESI. Future work (i.e., remedial investigations and feasibility studies) at those sites where significant concentrations of nitroaromatic compounds were detected

may require such information in order to identify contaminant source areas as well as define contaminant migration patterns.

Comment #4 List of Acronyms should include all the acronyms used in the report. Acronyms like, HMX, RDX, TNT, TPH, 2,4-DNT, 2,4-D, 2,4-DB, 2,4,5-T, 2,4,5-TP, MCPA and MCPP should be included in the list of acronyms.

Response #4 Agreed. The acronyms listed above have been added to the list of acronyms in the report.

Comment #5 Geophysical Investigation, GPR Survey: GPR surveys were done on all SWMUs and results were discussed in the appropriate section of the report. However, the report does not include the charts produced by the graphic recorder of the GPR and therefore the results could not be verified. Please include all the GPR produced charts in the appendices of the report.

Response #5 Exception. Due to the format of the GPR data which was produced by the GPR instrument (i.e., continuous strip-charts on electrostatic paper), reproduction of these data for the purposes of review and/or interpretation is both time consuming and expensive. Inclusion of these data in the report would not contribute to the reader's understanding of the geophysical interpretations presented in Section 3 of this report. However, these data are maintained at the Boston office of Parsons Engineering Science, Inc. Should the NYSDEC require these data for additional examination, a written request for the original GPR chart data may be submitted to the USACOE, Huntsville division, or these data may be viewed at Parsons ES' Boston office.

Comment #6 4.0 Nature and Extent of Contamination: It is stated that an average water hardness value of 300 ppm was used for calculating hardness based surface water quality criteria. Please provide the source data and calculations.

Response #6 Agreed. The source data and the calculations for determining the hardness of the surface water at the sites have been included in the text (pages 4-2, 4-26, 4-117, and 4-138). As discussed in the text, an average value of 300 mg/l was derived from calcium and magnesium concentrations at surface water locations at SEADs 4, 13, 26, and 45. These sites were part of the 10 SWMU ESI, with SEAD 13 included in the three moderately high priority sites.

Specific Comments

SEAD-4: Munition Washout Facility Leachfield:

Comment #1 1.1.2.1.1 Physical Site Setting: It is hard to follow the text without identification of all the features on the site plan (Please see comment number 1).

Response #1 Agreed. The site plan has been revised to include all of the features discussed in the text.

Comment #2 1.1.2.1.2 Site History: It is mentioned that wastewater was processed through saw dust to remove any solid explosive residues prior to being discharged to an area where it leached into the ground or flowed into a nearby ditch. Please provide the historical disposal practices of the explosive laden saw dust. What specific explosive residues were involved in the filtering?

Response #2 Agreed. Based upon the information presented in the SWMU Classification Report (ES, 1994), it was assumed that the explosive laden sawdust was destroyed along with the solid explosives at the burning grounds (by thermal destruction). Specific disposal practices utilized at the former munitions washout facility are unknown. A complete list of the explosives which were suspected to have been removed from obsolete or unserviceable munitions at the former munitions washout facility was provided in the SWMU Classification Report (ES, 1994). Included in this list were TNT, RDX, HMX, Tetryl, DNT, and Trinitrobenzene. Presumably, any or all of these explosive compounds may have been filtered through the sawdust.

Comment #3 Figure 2.3-2: What is GW4-1 shown on the map?

Response #3 GW4-1 was the location of the vertical pipe located in the area suspected of being the leachfield for the former munitions washout facility. Water sample 4PIPE was collected from within this pipe.

SEAD-17: Building 367 Existing Deactivation Furnace:

Comment #1 Table 4.3-2: This table shows analytical results for lead and zinc in groundwater, yet the maximum concentration column of this table shows that results are not available (NA). Please correct this apparent error.

Response #1 Agreed. Table 4.3-2 has been revised to show maximum concentrations for lead and zinc.

SEAD-24: Abandoned Powder Burning Pit:

Comment #1 3.4.2.3 GPR Survey: It is stated that in follow-up GPR survey on the northeast side of the east berm and southeast portion of the bermed area, a possible pipe or culvert and several areas of disrupted or excavated soil were detected. No GPR profiles are included in this section. Please include in this section all GPR profiles, which shows these anomalies.

Response #1 Agreed. GPR records showing areas of disrupted or excavated soil and the possible pipe or culvert have been included in this report.

Comment #2 Section 7.5: It appears from the map on Figure 4.4-1 that the contamination from the site might have impacted the Kendaia Creek. No surface water or sediment samples were taken from the Kendaia Creek to assess the contamination. This should be considered while preparing the work plans for limited investigative work and removal action.

Response #2 Exception. A review of the arsenic contamination in the surface soils at SEAD-24 (Figure 4.4-1) did not indicate that constituents from this site have impacted Kendaia Creek. However, future investigations being planned for this site should include limited sampling of Kendaia Creek in the vicinity of SEAD-24 in order to determine whether releases from this site have impacted the creek.

SEAD-25: Fire Training and Demonstration Pad:

Comment #1 Figure 3.5-1: Potentiometric lines for groundwater contours 742, 741 and 740 are partially based on assumptions, such as overall groundwater flow direction in the area and topography. Figure 3.5-1 should be modified to show all assumed potentiometric lines as dashed lines. Contour lines based on actual groundwater elevations should be shown as continuous lines. Additional monitoring wells and groundwater level monitoring would be required to confirm the groundwater flow direction as described in Section 3.5.3,and this should be kept in mind in the development of the RI/FS work plan.

Response #1 Agreed. All assumed portions of the potentiometric contours in Figure 3.5-1 have been shown as dashed lines. In addition, the installation of 16 additional wells has been included as part of the RI/FS workplan being prepared for this site.

SEAD-26: Fire Training Pit and Area:

Comment #1 7.7 Future Recommendation: It is concluded that the site poses a threat...but, because it has restricted access and is used only by trained personnel who are protected during fire training exercises, the site is recommended for no further action. The ESI report further states that the Army intends to continue fire training operations at this site. If the intended future use of this site changes, the Army will perform any necessary remedial actions necessary to meet the future intended use.

The NYSDEC could accept the above recommendations, provided that the Army assures us with an in-place mechanism, that would alert the future user(s) of the levels of contamination measures and reported, if no remedial action was undertaken upon change of use. Please provide us with details of the mechanism that the Army will establish that would alert the future user(s) of these conditions.

Response #1 Acknowledged. However, recent discussions with the USACOE and further review of available information have led to the decision to perform a remedial investigation at this site. These investigations will provide for a better understanding of the nature and extent of contamination at SEAD-26. They will also address potential mechanisms to alert future site users of the levels of contamination present should the intended use of this site change with no remedial actions having been undertaken.

SEAD-45: Open Detonation Facility:

Comment #1 2.9.2 Media to be Investigated: Soils: Tests Pits: The first sentence of the firs paragraph on page 2-58 is incomplete and should be corrected.

Response #1 Agreed. The text on page 2-58 has been corrected.

D#12

7 summ

APPENDIX H

RESPONSE TO COMMENTS

COMMENTS BY
THE ENVIRONMENTAL PROTECTION AGENCY
(EPA)