APPENDIX I

STATISTICAL ANALYSES

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options

From File	Pb and Ni.LT2 & 2to2.5 only.wst
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)
Alternative Hypothesis	Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: Lead(<2 feet)

Background Data: Lead(2.0-2.5 feet)

Raw Statistics

	Site	Background
Number of Valid Observations	52	45
Number of Distinct Observations	45	35
Minimum	0.24	0.18
Maximum	3200	360
Mean	178.7	33.79
Median	41.5	7.2
SD	472.7	65.06
SE of Mean	65.56	9.699

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Site Rank Sum W-Stat	3003
WMW Test U-Stat	3.288
WMW Critical Value (0.050)	1.645
P-Value	5.0489E-4

Conclusion with Alpha = 0.05

Reject H0, Conclude Site > Background

P-Value < alpha (0.05)

Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

User Selected Options

From File	Pb and Ni.LT2 & 2to2.5 only.wst
Confidence Coefficient	95%
Substantial Difference	0.000
Selected Null Hypothesis	Site or AOC Mean/Median Greater Than or Equal to Background Mean/Median (Form 2)
Alternative Hypothesis	Site or AOC Mean/Median Less Than Background Mean/Median

Area of Concern Data: Lead(<2 feet)

Background Data: Lead(2.0-2.5 feet)

Raw Statistics

	Site	Background
Number of Valid Observations	52	45
Number of Distinct Observations	45	35
Minimum	0.24	0.18
Maximum	3200	360
Mean	178.7	33.79
Median	41.5	7.2
SD	472.7	65.06
SE of Mean	65.56	9.699

Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC >= Mean/Median of Background

Site Rank Sum W-Stat	3003
WMW Test U-Stat	3.295
WMW Critical Value (0.050)	-1.645
P-Value	1

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Site >= Background

P-Value >= alpha (0.05)

General UCL Statistics for Full Data Sets

From File	Contract 3 Data Eval\Pb by final grouping.final check.wst
Confidence Coefficient	90%
Number of Bootstrap Operations	2000

Total Lead for Soils <2 Feet Bgs

General Statistics

Number of Valid Observations	52	Number of Distinct Observations	45

Raw Statistics		Log-transformed Statistics	
Minimum	0.24	Minimum of Log Data	-1.427
Maximum	3200	Maximum of Log Data	8.071
Mean	178.7	Mean of log Data	3.542
Median	41.5	SD of log Data	1.999
SD	472.7		
Coefficient of Variation	2.645		
Skewness	5.528		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.353	Lilliefors Test Statistic	0.0939
Lilliefors Critical Value	0.123	Lilliefors Critical Value	0.123
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
90% Student's-t UCL	263.9	90% H-UCL	530
		90% Chebyshev (MVUE) UCL	509.3
90% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	636.1
90% Adjusted-CLT UCL	298.6	97.5% Chebyshev (MVUE) UCL	812.1
90% Modified-t UCL	272.2	99% Chebyshev (MVUE) UCL	1158

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.39	Data Follow Appr. Gamma Distribution at 5% Significance Level
Theta Star	458.3	
nu star	40.56	
Approximate Chi Square Value (.05)	29.53	**Nonparametric Statistics**
Adjusted Level of Significance	0.0949	90% CLT UCL 262.8
Adjusted Chi Square Value	29.32	90% Jackknife UCL 263.9
		90% Standard Bootstrap UCL 261.3
Anderson-Darling Test Statistic	1.41	90% Bootstrap-t UCL 426.4
Anderson-Darling 5% Critical Value	0.839	90% Hall's Bootstrap UCL 679
Kolmogorov-Smirnov Test Statistic	0.117	90% Percentile Bootstrap UCL 260.6
Kolmogorov-Smirnov 5% Critical Value	0.132	90% BCA Bootstrap UCL 324.2
Data follow Appr. Gamma Distribution at 5% Significance Level		90% Chebyshev(Mean, Sd) UCL 375.4
		95% Chebyshev(Mean, Sd) UCL 464.5
		97.5% Chebyshev(Mean, Sd) UCL 588.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 831
90% Approximate Gamma UCL	245.5	
90% Adjusted Gamma UCL	247.3	

Potential UCL to Use	Recommendation Provided only for 95% Confidence Coefficient

Data for Soil < 2 Feet Bgs in All Composite Areas

Matrix	Comp. Area	Lithology	Composite	Sample ID	Sample Depth	Lead	Lead, WET	WET Lead
Soil	12	A	0	E082A-1.0	1	4.1		0.41
Soil	12	F	0	E83F-1.0	1	9.1		0.91
Soil	13	CO	0	E84CO-1.0	1	290	27	27
Soil	13	A	0	E85A-1.0	1	89	4.5	4.5
Soil	13	F	0	E86F-1.0	1	6.8		0.68
Soil	13	F	0	E87F-1.0	1	40		4
Soil	13	A	0	E88A-1.0	1	4.1		0.41
Soil	13	FS	0	E89FS-1.0	1	54	4.1	4.1
Soil	13	A	0	E90A-1.0	1	77	3.6	3.6
Soil	13	A	0	E91A-1.0	1	22		2.2
Soil	13	A	0	E92A-1.0	1	140	0.58	0.58
Soil	13	F	0	E93F-1.0	1	120	12	12
Soil	13	AS	0	E94AS-1.0	1	3.7		0.37
Soil	15	FS	0	E103FS-1.0	1	420	1.5	1.5
Soil	15	CO	0	E105C-1.0	1	0.77		0.077
Soil	15	F	0	E107C-1.0	1	3200		320
Soil	15	FS	0	E109FS-1.0	1	4.5		0.45
Soil	15	FS	0	E110FS-1.0	1	1200	3.9	3.9
Soil	15	AS	0	E111AS-1.0	1	240	12	12
Soil	15	A	0	E112A-1.0	1	350	2.2	2.2
Soil	15	F	0	E113F-1.0	1	120	2.8	2.8
Soil	15	FS	0	E114FS-1.0	1	0.24		0.024
Soil	15	FS	0	E115FS-1.0	1	210	0.84	0.84
Soil	16	FS	0	E108FS-1.0	1	5.9		0.59
Soil	16	F	0	E116F-1.0	1	79	150	150
Soil	16	F	0	E117F-1.0	1	5.1		0.51
Soil	16	F	0	E118F-1.0	1	50	0.56	0.56
Soil	16	FS	0	E119FS-1.0	1	300	72	72
Soil	16	F	0	E120F-1.0	1	6.7		0.67
Soil	17	FS	0	E121FS-1.0	1	6		0.6
Soil	17	FS	0	E122FS-1.0	1	24		2.4
Soil	17	FS	0	E123FS-1.0	1	31		3.1
Soil	17	FS	0	E124FS-1.0	1	380	20	20
Soil	17	FS	0	E125FS-1.0	1	190	1.2	1.2
Soil	17	FS	0	E126FS-1.0	1	0.75		0.075
Soil	17	F	0	E127F-1.0	1	3.1		0.31
Soil	17	F	0	E128F-1.0	1	140	2.5	2.5
Soil	17	F	0	E129F-1.0	1	43		4.3
Soil	17	FS	0	E130FS-1.0	1	22		2.2
Soil	18	A	0	E131A-1.0	1	240	3.7	3.7
Soil	18	FS	0	E132FS-1.0	1	59	14	14
Soil	15	CO	0	E106C-1.5	1.5	6.6		0.66
Soil	16	FS	0	E116FS-2.0	2	79	2.5	2.5
Soil	14	F	0	E100F-1.0	1	150	1.6	1.6
Soil	14	A	0	E101A-1.0	1	640	1.4	1.4
Soil	14	FS	0	E102FS-1.0	1	14		1.4
Soil	14	FS	0	E104FS-1.0	1	8.8		0.88
Soil	14	F	0	E96F-1.0	1	150	0.57	0.57
Soil	14	F	0	E97F-1.0	1	23		2.3
Soil	14	F	0	E98F-1.0	1	19		1.9
Soil	14	CO	0	E99CO-1.0	1	7.8		0.78
Soil	14	F	0	E95F-2.0	2	5.4		0.54

General UCL Statistics for Full Data Sets

User Selected Options

From File Contract 3 Data Eval\Pb by final grouping.final check.wst

Confidence Coefficient 90%

Number of Bootstrap Operations 2000

WET Lead in Soil <2 Feet Bgs in Composite Areas 12, 13, 15, 16, 17, and 18 (excluding 14)

General Statistics

Number of Valid Observations	43	Number of Distinct Observations	38

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.024	Minimum of Log Data	-3.73
Maximum	320	Maximum of Log Data	5.768
Mean	15.96	Mean of log Data	0.664
Median	2.2	SD of log Data	1.897
SD	53.65		
Coefficient of Variation	3.361		
Skewness	4.944		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.328	Shapiro Wilk Test Statistic	0.964
Shapiro Wilk Critical Value	0.943	Shapiro Wilk Critical Value	0.943
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
90% Student's-t UCL	26.62	90% H-UCL	25.09
		90% Chebyshev (MVUE) UCL	23.47
90% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	29.32
90% Adjusted-CLT UCL	30.86	97.5% Chebyshev (MVUE) UCL	37.43
90% Modified-t UCL	27.65	99% Chebyshev (MVUE) UCL	53.37

Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	0.316	Data appear Lognormal at 5% Significance Level	
Theta Star	50.46		
nu star	27.2		
Approximate Chi Square Value (.05)	18.28	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0939	90% CLT UCL	26.45
Adjusted Chi Square Value	18.08	90% Jackknife UCL	26.62
		90% Standard Bootstrap UCL	26.43
Anderson-Darling Test Statistic	4.248	90% Bootstrap-t UCL	50.79
Anderson-Darling 5% Critical Value	0.855	90% Hall's Bootstrap UCL	69.32
Kolmogorov-Smirnov Test Statistic	0.31	90% Percentile Bootstrap UCL	26.5
Kolmogorov-Smirnov 5% Critical Value	0.146	90% BCA Bootstrap UCL	32.81
Data not Gamma Distributed at 5% Significance Level		90% Chebyshev(Mean, Sd) UCL	40.51
		95% Chebyshev(Mean, Sd) UCL	51.63
		97.5% Chebyshev(Mean, Sd) UCL	67.06
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	97.38
90% Approximate Gamma UCL	23.75		

			90% Adjusted Gamma UCL	24.02							
		Potential UCL to Use				Recommendation Provided only for 95% Confidence Coefficient					

Data for Soil < 2 Feet Bgs in Composite Areas 12, 13, 15, 16, 17, and 18

Matrix	Comp. Area	Lithology	Composite	Sample ID	Sample Depth	Lead	Lead, WET	WET Lead
Soil	12	A	0	E082A-1.0	1	4.1		0.41
Soil	12	F	0	E83F-1.0	1	9.1		0.91
Soil	13	CO	0	E84CO-1.0	1	290	27	27
Soil	13	A	0	E85A-1.0	1	89	4.5	4.5
Soil	13	F	0	E86F-1.0	1	6.8		0.68
Soil	13	F	0	E87F-1.0	1	40		4
Soil	13	A	0	E88A-1.0	1	4.1		0.41
Soil	13	FS	0	E89FS-1.0	1	54	4.1	4.1
Soil	13	A	0	E90A-1.0	1	77	3.6	3.6
Soil	13	A	0	E91A-1.0	1	22		2.2
Soil	13	A	0	E92A-1.0	1	140	0.58	0.58
Soil	13	F	0	E93F-1.0	1	120	12	12
Soil	13	AS	0	E94AS-1.0	1	3.7		0.37
Soil	15	FS	0	E103FS-1.0	1	420	1.5	1.5
Soil	15	CO	0	E105C-1.0	1	0.77		0.077
Soil	15	F	0	E107C-1.0	1	3200		320
Soil	15	FS	0	E109FS-1.0	1	4.5		0.45
Soil	15	FS	0	E110FS-1.0	1	1200	3.9	3.9
Soil	15	AS	0	E111AS-1.0	1	240	12	12
Soil	15	A	0	E112A-1.0	1	350	2.2	2.2
Soil	15	F	0	E113F-1.0	1	120	2.8	2.8
Soil	15	FS	0	E114FS-1.0	1	0.24		0.024
Soil	15	FS	0	E115FS-1.0	1	210	0.84	0.84
Soil	16	FS	0	E108FS-1.0	1	5.9		0.59
Soil	16	F	0	E116F-1.0	1	79	150	150
Soil	16	F	0	E117F-1.0	1	5.1		0.51
Soil	16	F	0	E118F-1.0	1	50	0.56	0.56
Soil	16	FS	0	E119FS-1.0	1	300	72	72
Soil	16	F	0	E120F-1.0	1	6.7		0.67
Soil	17	FS	0	E121FS-1.0	1	6		0.6
Soil	17	FS	0	E122FS-1.0	1	24		2.4
Soil	17	FS	0	E123FS-1.0	1	31		3.1
Soil	17	FS	0	E124FS-1.0	1	380	20	20
Soil	17	FS	0	E125FS-1.0	1	190	1.2	1.2
Soil	17	FS	0	E126FS-1.0	1	0.75		0.075
Soil	17	F	0	E127F-1.0	1	3.1		0.31
Soil	17	F	0	E128F-1.0	1	140	2.5	2.5
Soil	17	F	0	E129F-1.0	1	43		4.3
Soil	17	FS	0	E130FS-1.0	1	22		2.2
Soil	18	A	0	E131A-1.0	1	240	3.7	3.7
Soil	18	FS	0	E132FS-1.0	1	59	14	14
Soil	15	CO	0	E106C-1.5	1.5	6.6		0.66
Soil	16	FS	0	E116FS-2.0	2	79	2.5	2.5

General UCL Statistics for Full Data Sets

User Selected Options

From File Contract 3 Data Eval\Pb by final grouping.final check.wst

Confidence Coefficient 90%

Number of Bootstrap Operations 2000

WET Lead in Fill Deeper than 2 Feet Bgs

General Statistics

Number of Valid Observations	27	Number of Distinct Observations	24

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.018	Minimum of Log Data	-4.017
Maximum	20	Maximum of Log Data	2.996
Mean	2.515	Mean of log Data	-0.0293
Median	0.77	SD of log Data	1.388
SD	4.685		
Coefficient of Variation	1.863		
Skewness	3.106		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.511	Shapiro Wilk Test Statistic	0.932
Shapiro Wilk Critical Value	0.923	Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
90% Student's-t UCL	3.701	90% H-UCL	4.645
		90% Chebyshev (MVUE) UCL	4.732
90% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.794
90% Adjusted-CLT UCL	4.055	97.5% Chebyshev (MVUE) UCL	7.267
90% Modified-t UCL	3.79	99% Chebyshev (MVUE) UCL	10.16

Gamma Distribution Test		**Data Distribution**	
k star (bias corrected)	0.596	Data appear Lognormal at 5% Significance Level	
Theta Star	4.219		
nu star	32.19		
Approximate Chi Square Value (.05)	22.43	**Nonparametric Statistics**	
Adjusted Level of Significance	0.089	90% CLT UCL	3.671
Adjusted Chi Square Value	22.02	90% Jackknife UCL	3.701
		90% Standard Bootstrap UCL	3.654
Anderson-Darling Test Statistic	1.765	90% Bootstrap-t UCL	5.819
Anderson-Darling 5% Critical Value	0.794	90% Hall's Bootstrap UCL	10.01
Kolmogorov-Smirnov Test Statistic	0.22	90% Percentile Bootstrap UCL	3.756
Kolmogorov-Smirnov 5% Critical Value	0.176	90% BCA Bootstrap UCL	4.157
Data not Gamma Distributed at 5% Significance Level		90% Chebyshev(Mean, Sd) UCL	5.22
		95% Chebyshev(Mean, Sd) UCL	6.445
		97.5% Chebyshev(Mean, Sd) UCL	8.145
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	11.49
90% Approximate Gamma UCL	3.61		

			90% Adjusted Gamma UCL		3.677						
		Potential UCL to Use					Recommendation Provided only for 95% Confidence Coefficient				

Data for Fill Deeper than 2 Feet Bgs

Matrix	Comp. Area	Lithology	Composite	Sample ID	Sample Depth	Lead	Lead, WET	WET Lead
Soil	12	F	0	E83F-2.5	2.5	8.8		0.88
Soil	13	F	0	E87F-2.5	2.5	79	2.7	2.7
Soil	13	FS	0	E89FS-2.5	2.5	37		3.7
Soil	14	F	0	E100F-2.5	2.5	2.1		0.21
Soil	14	FS	0	E102FS-2.5	2.5	7.7		0.77
Soil	14	FS	0	E104FS-2.5	2.5	4.8		0.48
Soil	15	FS	0	E103FS-2.5	2.5	12		1.2
Soil	15	FS	0	E109FS-2.5	2.5	7.7		0.77
Soil	15	FS	0	E110FS-2.5	2.5	11		1.1
Soil	15	FS	0	E114FS-2.5	2.5	5.4		0.54
Soil	15	FS	0	E115FS-2.5	2.5	85	0.55	0.55
Soil	16	FS	0	E108FS-2.5	2.5	4.7		0.47
Soil	16	F	0	E117F-2.5	2.5	4.4		0.44
Soil	16	F	0	E118F-2.5	2.5	5		0.5
Soil	16	FS	0	E119FS-2.5	2.5	360	16	16
Soil	16	F	0	E120F-2.5	2.5	6.8		0.68
Soil	17	FS	0	E121FS-2.5	2.5	130	1.1	1.1
Soil	17	FS	0	E123FS-2.5	2.5	19		1.9
Soil	17	FS	0	E124FS-2.5	2.5	99	0.39	0.39
Soil	17	FS	0	E125FS-2.5	2.5	210	1.3	1.3
Soil	17	FS	0	E126FS-2.5	2.5	0.18		0.018
Soil	17	F	0	E127F-2.5	2.5	17		1.7
Soil	17	F	0	E128F-2.5	2.5	49		4.9
Soil	17	F	0	E129F-2.5	2.5	3.7		0.37
Soil	17	FS	0	E130FS-2.5	2.5	49		4.9
Soil	18	FS	0	E132F-2.5	2.5	70	0.34	0.34
Soil	15	FS	0	E110FS-7.5	7.5	440	20	20

General UCL Statistics for Data Sets with Non-Detects

From File	Contract 3 Data Eval\Pb by final grouping.final check.wst
Confidence Coefficient	90%
Number of Bootstrap Operations	2000

WET Lead in Alluvium Deeper than 2 Feet Bgs

General Statistics

Number of Valid Data	33	Number of Detected Data	32
Number of Distinct Detected Data	28	Number of Non-Detect Data	1
		Percent Non-Detects	3.03%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.15	Minimum Detected	-1.897
Maximum Detected	9.6	Maximum Detected	2.262
Mean of Detected	1.278	Mean of Detected	-0.449
SD of Detected	2.086	SD of Detected	1.049
Minimum Non-Detect	0.15	Minimum Non-Detect	-1.897
Maximum Non-Detect	0.15	Maximum Non-Detect	-1.897

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.554	Shapiro Wilk Test Statistic	0.896
5% Shapiro Wilk Critical Value	0.93	5% Shapiro Wilk Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.242	Mean	-0.514
SD	2.063	SD	1.098
90% DL/2 (t) UCL	1.712	90% H-Stat (DL/2) UCL	1.522
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	1.204	Mean in Log Scale	-0.527
SD	2.073	SD in Log Scale	1.126
90% MLE (t) UCL	1.676	Mean in Original Scale	1.241
90% MLE (Tiku) UCL	1.631	SD in Original Scale	2.064
		90% Percentile Bootstrap UCL	1.707
		90% BCA Bootstrap UCL	1.881

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.79	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.618	
nu star	50.54	
A-D Test Statistic	2.734	**Nonparametric Statistics**
5% A-D Critical Value	0.783	Kaplan-Meier (KM) Method
K-S Test Statistic	0.783	Mean 1.244
5% K-S Critical Value	0.161	SD 2.031
Data not Gamma Distributed at 5% Significance Level		SE of Mean 0.359
		90% KM (t) UCL 1.714

Assuming Gamma Distribution		90% KM (z) UCL	1.704
Gamma ROS Statistics using Extrapolated Data		90% KM (jackknife) UCL	1.713
Minimum	1.0000E-9	90% KM (bootstrap t) UCL	1.968
Maximum	9.6	90% KM (BCA) UCL	1.711
Mean	1.239	90% KM (Percentile Bootstrap) UCL	1.729
Median	0.5	90% KM (Chebyshev) UCL	2.321
SD	2.065	95% KM (Chebyshev) UCL	2.809
k star	0.472	97.5% KM (Chebyshev) UCL	3.487
Theta star	2.623	99% KM (Chebyshev) UCL	4.817
Nu star	31.18		
AppChi2	21.59	**Potential UCL to Use**	
90% Gamma Approximate UCL	1.79	Recommendation Provided only	
90% Adjusted Gamma UCL	1.818	for 95% Confidence Coeficient	

Note: DL/2 is not a recommended method.

Data for Alluvium Deeper than 2 Feet Bgs

Matrix	Comp. Area	Lithology	Composite	Sample ID	Sample Depth	Lead	Lead, WET	WET Lead	d_WET Lead
Soil	12	A	-1	EC12-A002	1.0-7.5	5.9		0.59	1
Soil	13	A	-1	EC13-A001	1.0-2.5	33		3.3	1
Soil	13	A	-1	EC13-A002	1.0-17.5	2.2		0.22	1
Soil	13	A	-1	EC13-A003	22.5-42.5	3.1		0.31	1
Soil	13	A	-1	EC13-A004	47.5-72.5	3.8		0.38	1
Soil	13	A	-1	EC13-A005	82.5-102.5	4.6		0.46	1
Soil	13	A	-1	EC13-A006	107.5-127.5	7.4		0.74	1
Soil	13	A	-1	EC13-A007	1.0-137.5	11		1.1	1
Soil	13	A	-1	EC13-A008	1.0-17.5	3.2		0.32	1
Soil	13	A	-1	EC13-A009	22.5-32.5	1.5		0.15	1
Soil	13	A	-1	EC13-A010	37.5-47.5	1.8		0.18	1
Soil	13	AS	-1	EC13-AS001	1.0-7.5	53	4.6	4.6	1
Soil	13	AS	-1	EC13-AS002	57.5-62.5	5.5		0.55	1
Soil	14	A	-1	EC14-A001	1.0-2.5	140	1.1	1.1	1
Soil	15	A	-1	EC15-A001	2.5-12.5	4.5		0.45	1
Soil	15	A	-1	EC15-A002	1.0-8.0	77	0.15	0.15	0
Soil	15	A	-1	EC15-A003	7.5-13.0	5.5		0.55	1
Soil	15	AS	-1	EC15-AS001	1.0-2.5	96		9.6	1
Soil	18	A	-1	EC18-A001	1.0-2.5	150	2.5	2.5	1
Soil	12	A	0	E082A-2.5	2.5	5.1		0.51	1
Soil	13	A	0	E85A-2.5	2.5	62	6.8	6.8	1
Soil	13	A	0	E86A-2.5	2.5	4.4		0.44	1
Soil	13	A	0	E88A-2.5	2.5	2.9		0.29	1
Soil	13	A	0	E90A-2.5	2.5	17		1.7	1
Soil	13	A	0	E91A-2.5	2.5	2.6		0.26	1
Soil	13	A	0	E92A-2.5	2.5	2.1		0.21	1
Soil	13	A	0	E93A-2.5	2.5	7.2		0.72	1
Soil	13	A	0	E94A-2.5	2.5	2.1		0.21	1
Soil	14	A	0	E101A-2.5	2.5	7.8		0.78	1
Soil	15	AS	0	E111AS-2.5	2.5	5		0.5	1
Soil	15	A	0	E112A-2.5	2.5	6.1		0.61	1
Soil	15	A	0	E113A-2.5	2.5	4.4		0.44	1
Soil	18	A	0	E131A-2.5	2.5	83	0.33	0.33	1