

Table M-1
Comparison of PAHs by Area Against Maine DEP and MassDEP Urban Soil Concentrations
Supplemental Remedial Investigation #2
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, New York

Parameter (mg/kg)	Area 1	Area 2	Area 3	Area 4	Maine DEP 90th Percentile Urban Soil	MassDEP Soil Containing Fill
2-Methylnaphthalene	0.44	0.46	0.39	0.80	0.80	1
Acenaphthene	0.49	0.52	0.39	2.0	0.61	2
Acenaphthylene	0.43	0.46	0.56	3.3	0.66	1
Benzo(a)anthracene	1.48	1.60	1.50	7.30	4.2	9
Benzo(a)pyrene	1.28	1.60	1.80	9.8	4.6	7
Benzo(b)fluoranthene	2.20	2.20	2.90	16.00	5.3	8
Benzo(g,h,i)perylene	0.84	1.20	1.60	9.10	2.0	3
Benzo(k)fluoranthene	0.66	0.92	0.66	2.70	3.2	4
Chrysene	1.48	1.90	2.00	8.20	4.1	7
Dibenzo(a,h)anthracene	0.66	0.66	0.66	2.00	0.58	1
Fluoranthene	3.26	2.00	3.30	16.00	7.6	10
Fluorene					0.71	2
Indeno(1,2,3-cd)pyrene	1.00	1.30	1.20	7.40	2.6	3
Naphthalene	0.38	0.46	0.39	1.9	0.84	1
Phenanthrene	2.70	1.00	1.90	12.00	4.1	20
Pyrene	2.70	2.90	3.10	14.00	6.7	20

Notes: The concentrations from Areas 1, 2, 3, and 4 are the maximum concentration of the compound in all soil samples (all depths) collected from within that area.

The MassDEP Soil Containing Fill are the 90th percentile values from the CDM 1996 dataset (more than 750 samples collected by Mass Highway Department as part of the Central Artery/Tunnel (CA/T) project and presented in a draft document *Background Soil Contaminant Assessment* (CDM, April 1996). The CDM report is cited in *Technical Update - Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil* (MassDEP, May 2002).

Table M-2
One-Tailed Hypothesis Tests ($\alpha=2.5\%$) for Shallow Soil
Site vs. Background
Supplemental Remedial Investigation #2
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, NY

Analyte	Test Result
2-METHYLNAPHTHALENE	Do Not Reject H0, Site <= Background
ACENAPHTHENE	Reject H0, Conclude Site > Background
ACENAPHTHYLENE	Reject H0, Conclude Site > Background
ANTHRACENE	Reject H0, Conclude Site > Background
BENZ[A]ANTHRACENE	Reject H0, Conclude Site > Background
BENZO[A]PYRENE	Reject H0, Conclude Site > Background
BENZO[B]FLUORANTHENE	Reject H0, Conclude Site > Background
BENZO[GHI]PERYLENE	Reject H0, Conclude Site > Background
BENZO[K]FLUORANTHENE	Reject H0, Conclude Site > Background
BIS(2-ETHYLHEXYL) PHTHALATE	Reject H0, Conclude Site > Background
BUTYL BENZYL PHTHALATE	Do Not Reject H0, Site <= Background
CARBAZOLE	Do Not Reject H0, Site <= Background
CHRYSENE	Reject H0, Conclude Site > Background
DIBENZ[A,H]ANTHRACENE	Do Not Reject H0, Site <= Background
DIBENZOFURAN	NA -- Inadequate data
DIETHYLPHTHALATE	NA -- Inadequate data
DIMETHYLPHTHALATE	NA -- Inadequate data
DI-N-BUTYL PHTHALATE	Do Not Reject H0, Site <= Background
DI-N-OCTYL PHTHALATE	NA -- Inadequate data
FLUORANTHENE	Reject H0, Conclude Site > Background
FLUORENE	Reject H0, Conclude Site > Background
INDENO[1,2,3-CD]PYRENE	Reject H0, Conclude Site > Background
NAPHTHALENE	Do Not Reject H0, Site <= Background
PHENANTHRENE	Reject H0, Conclude Site > Background
PYRENE	Reject H0, Conclude Site > Background
p-CHLORO-M-CRESOL	NA -- Inadequate data in one data set
ALUMINUM	Reject H0, Conclude Site > Background
ANTIMONY	Do Not Reject H0, Site <= Background
ARSENIC	Reject H0, Conclude Site > Background
BARIUM	Reject H0, Conclude Site > Background
BERYLLIUM	Reject H0, Conclude Site > Background
CADMIUM	Reject H0, Conclude Site > Background
CALCIUM	Reject H0, Conclude Site > Background
CHROMIUM III	Reject H0, Conclude Site > Background
COBALT	Reject H0, Conclude Site > Background
COPPER	Reject H0, Conclude Site > Background
IRON	Reject H0, Conclude Site > Background
LEAD	Reject H0, Conclude Site > Background
MAGNESIUM	Reject H0, Conclude Site > Background
MANGANESE	Reject H0, Conclude Site > Background
MERCURY	Reject H0, Conclude Site > Background
NICKEL	Reject H0, Conclude Site > Background
POTASSIUM	Reject H0, Conclude Site > Background
SELENIUM	NA -- Inadequate data
SILVER	NA -- Inadequate data
SODIUM	Reject H0, Conclude Site > Background
THALLIUM	NA -- Inadequate data
VANADIUM	Reject H0, Conclude Site > Background
ZINC	Reject H0, Conclude Site > Background

Null Hypothesis: Site concentrations are not greater than background.

Alternate Hypothesis: Site concentrations are greater than background.

Table M-3
One-Tailed Hypothesis Tests ($\alpha=2.5\%$) for Deep Soil
Site vs. Background
Supplemental Remedial Investigation #2
Fort Totten Coast Guard Station Formerly Used Defense Site
Queens, NY

Analyte	Test Result
2-METHYLNAPHTHALENE	Do Not Reject H0, Site <= Background
ACENAPHTHENE	Do Not Reject H0, Site <= Background
ACENAPHTHYLENE	Reject H0, Conclude Site > Background
ANTHRACENE	Do Not Reject H0, Site <= Background
BENZ[A]ANTHRACENE	Reject H0, Conclude Site > Background
BENZO[A]PYRENE	Reject H0, Conclude Site > Background
BENZO[B]FLUORANTHENE	Reject H0, Conclude Site > Background
BENZO[GHI]PERYLENE	Do Not Reject H0, Site <= Background
BENZO[K]FLUORANTHENE	Reject H0, Conclude Site > Background
BIS(2-ETHYLHEXYL) PHTHALATE	Reject H0, Conclude Site > Background
BUTYL BENZYL PHTHALATE	NA -- Inadequate data
CARBAZOLE	Do Not Reject H0, Site <= Background
CHRYSENE	Reject H0, Conclude Site > Background
DIBENZ[A,H]ANTHRACENE	Do Not Reject H0, Site <= Background
DIBENZOFURAN	Do Not Reject H0, Site <= Background
DIMETHYLPHTHALATE	NA -- Inadequate data
DI-N-BUTYL PHTHALATE	Reject H0, Conclude Site > Background
DI-N-OCTYL PHTHALATE	NA -- Inadequate data
FLUORENE	Do Not Reject H0, Site <= Background
INDENO[1,2,3-CD]PYRENE	Reject H0, Conclude Site > Background
NAPHTHALENE	Do Not Reject H0, Site <= Background
PENTACHLOROPHENOL	NA -- Inadequate data
PHENANTHRENE	Reject H0, Conclude Site > Background
PYRENE	Reject H0, Conclude Site > Background
ALUMINUM	Reject H0, Conclude Site > Background
ANTIMONY	Reject H0, Conclude Site > Background
ARSENIC	Reject H0, Conclude Site > Background
BARIUM	Reject H0, Conclude Site > Background
BERYLLIUM	Reject H0, Conclude Site > Background
CADMIUM	Do Not Reject H0, Site <= Background
CALCIUM	Reject H0, Conclude Site > Background
CHROMIUM III	Reject H0, Conclude Site > Background
COBALT	Reject H0, Conclude Site > Background
COPPER	Reject H0, Conclude Site > Background
IRON	Reject H0, Conclude Site > Background
LEAD	Reject H0, Conclude Site > Background
MAGNESIUM	Reject H0, Conclude Site > Background
MANGANESE	Reject H0, Conclude Site > Background
MERCURY	Reject H0, Conclude Site > Background
NICKEL	Reject H0, Conclude Site > Background
POTASSIUM	Reject H0, Conclude Site > Background
SELENIUM	NA -- Inadequate data
SILVER	NA -- Inadequate data
SODIUM	Reject H0, Conclude Site > Background
THALLIUM	NA -- Inadequate data
VANADIUM	Reject H0, Conclude Site > Background
ZINC	Reject H0, Conclude Site > Background

Null Hypothesis: Site concentrations are not greater than background.

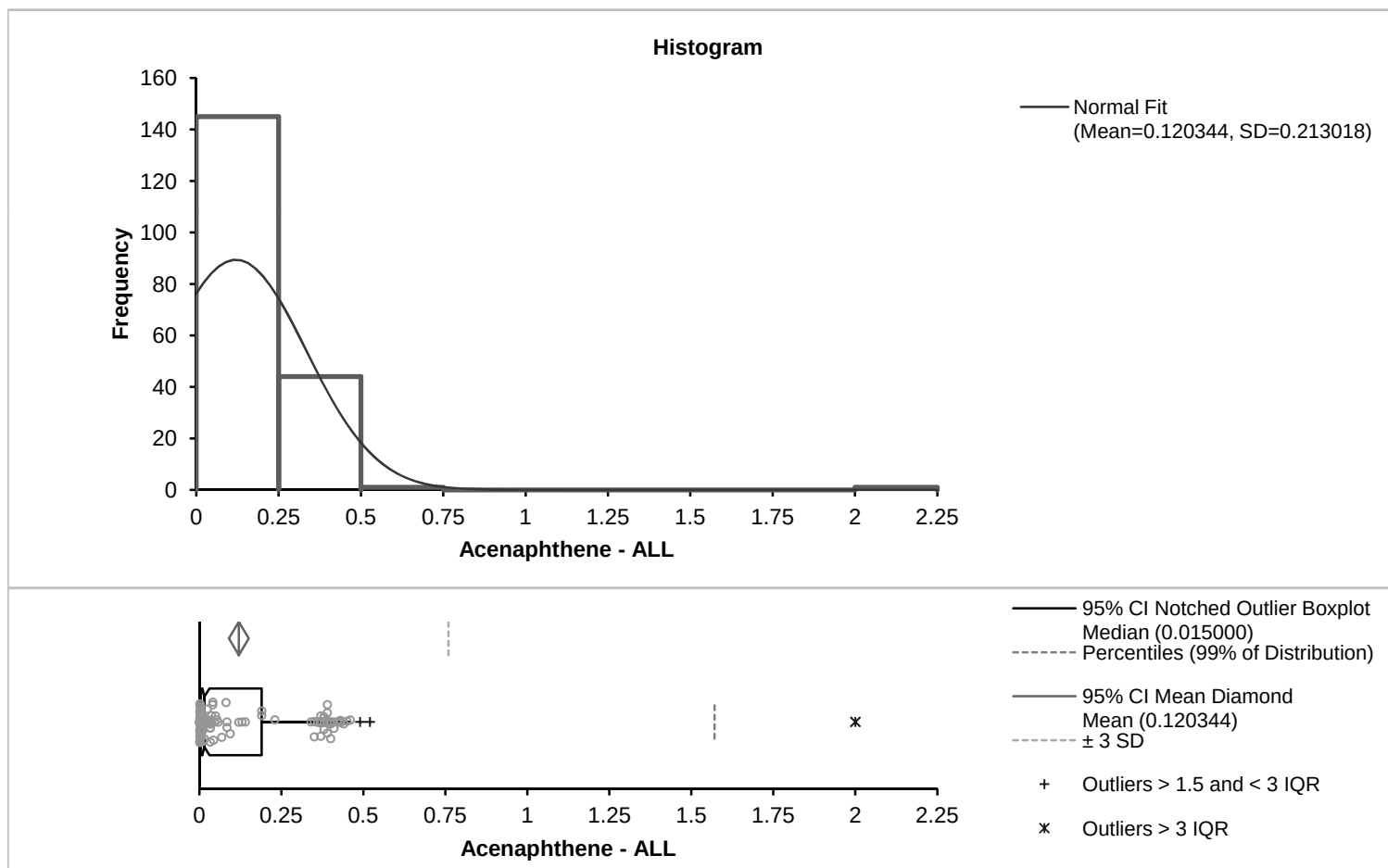
Alternate Hypothesis: Site concentrations are greater than background.

Test | **Describe - Summary**

Ft. Totten Soil
Acenaphthene - ALL

Performed by | AMEC

Date | 11 February 2012



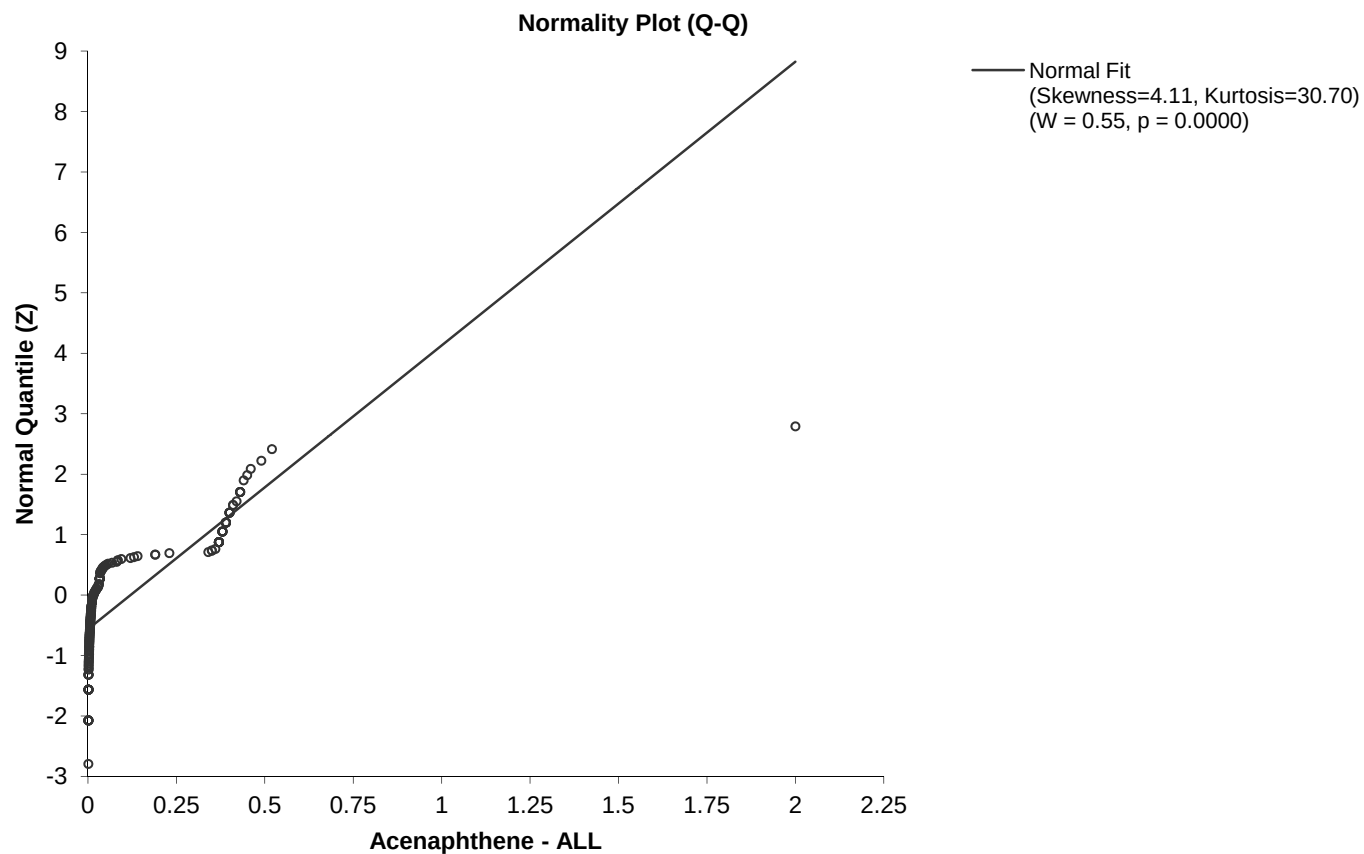
n	191		
Mean	0.120344	Median	0.015000
95% CI	0.089940 to 0.150747	95.8% CI	0.009200 to 0.031000
SE	0.0154135		
Variance	0.045377	Range	1.99913
SD	0.213018	IQR	0.185783
95% CI	0.193584 to 0.236825	Percentile	
CV	177.0%	0th	0.000870 (minimum)
Skewness	4.11	0.5th	0.000937
Kurtosis	30.70	25th	0.004217 (1st quartile)
Shapiro-Wilk W	0.55	50th	0.015000 (median)
p	<0.0001	75th	0.190000 (3rd quartile)
		99.5th	1.570800
		100th	2.000000 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
Acenaphthene - ALL

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Date | 11 February 2012

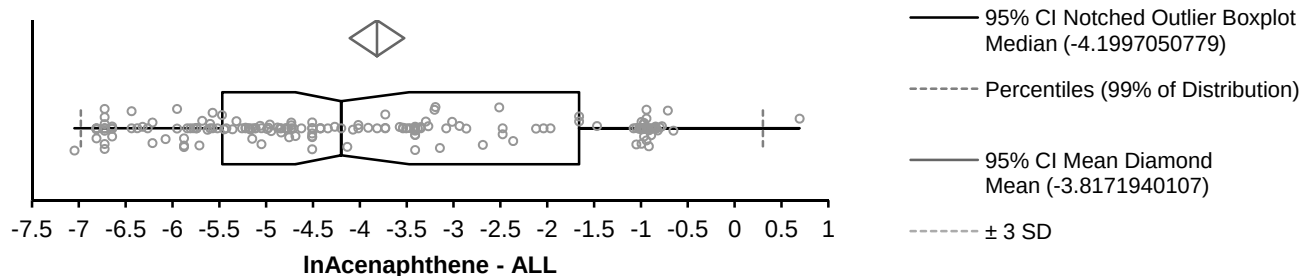
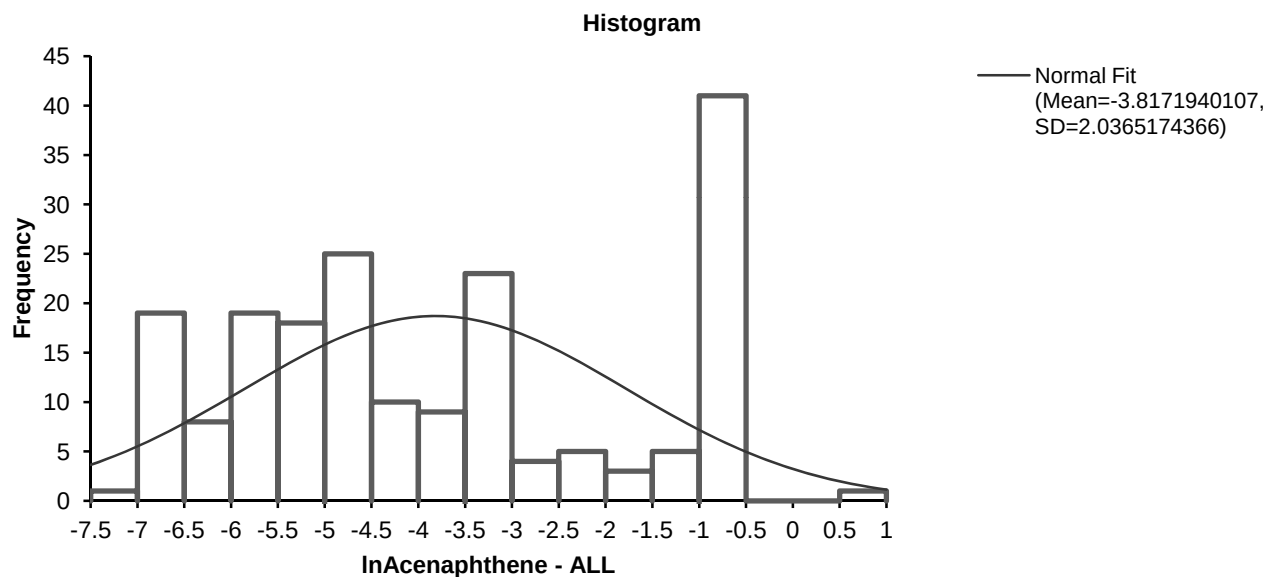


Test | **Describe - Summary**

Ft. Totten Soil
InAcenaphthene - ALL

Performed by | AMEC

Date | 11 February 2012



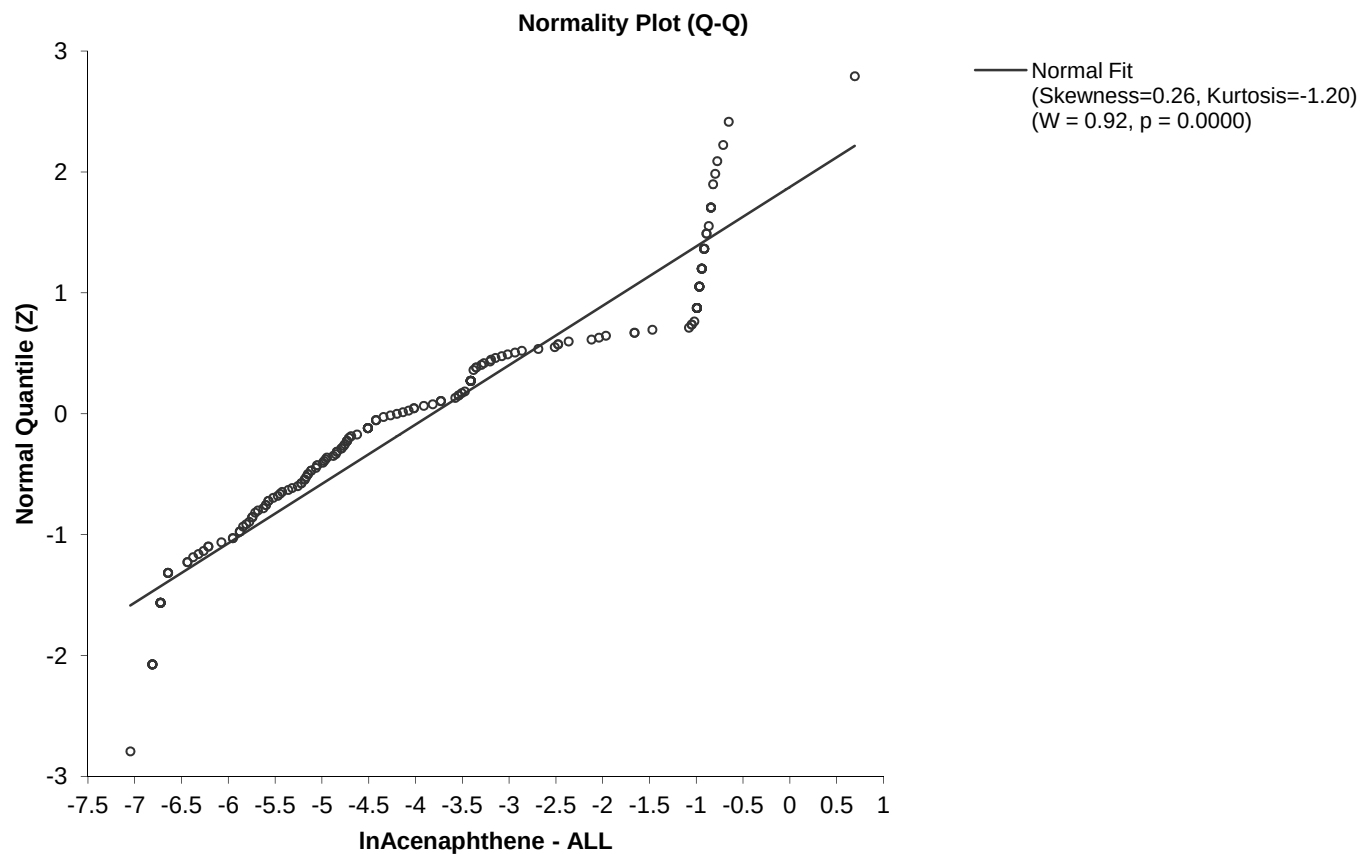
n	191		
Mean	-3.8171940107	Median	-4.1997050779
95% CI	-4.1078602725 to -3.52652775	95.8% CI	-4.6885517949 to -3.47376807
SE	0.1473572300		
Variance	4.1474032696	Range	7.740164527
SD	2.0365174366	IQR	3.8080177973
95% CI	1.8507179528 to 2.26411165	Percentile	
CV	-53.4%	0th	-7.0470173463 (minimum)
Skewness	0.26	0.5th	-6.9789913946
Kurtosis	-1.20	25th	-5.4687490041 (1st quartile)
Shapiro-Wilk W	0.92	50th	-4.1997050779 (median)
p	<0.0001	75th	-1.6607312068 (3rd quartile)
		99.5th	0.3024958226
		100th	0.6931471806 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InAcenaphthene - ALL

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Test **Describe - Comparative**

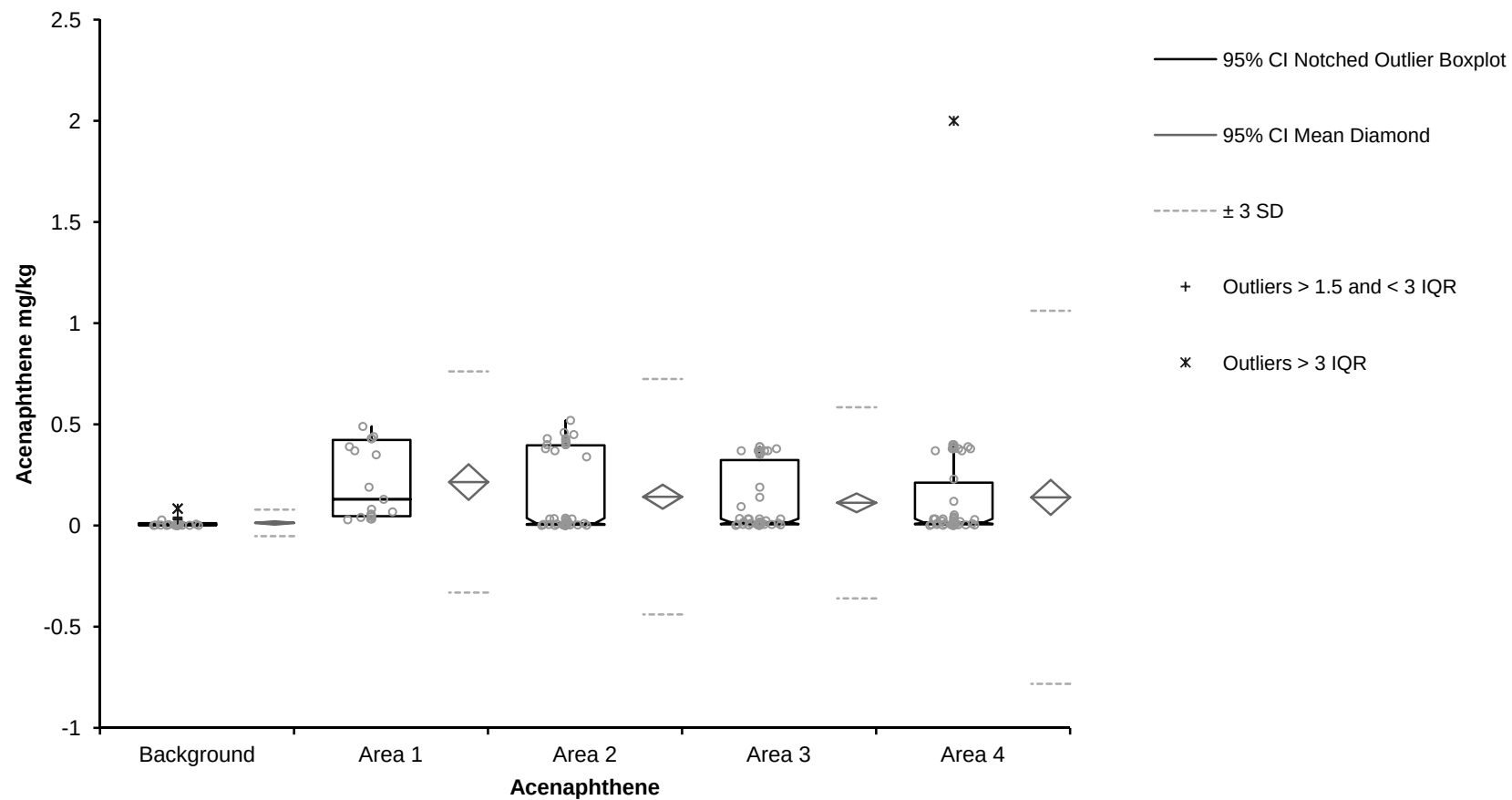
Ft. Totten Soil

Acenaphthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Acenaphthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

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Acenaphthene	n	Mean	95% CI	SE	SD
Background	31	0.012842	0.004830 to 0.020853	0.0039228	0.0218414
Area 1	19	0.215084	0.127266 to 0.302903	0.0418000	0.1822018
Area 2	43	0.142411	0.082744 to 0.202079	0.0295665	0.1938807
Area 3	47	0.112196	0.065970 to 0.158421	0.0229646	0.1574375
Area 4	51	0.139296	0.052885 to 0.225707	0.0430213	0.3072333

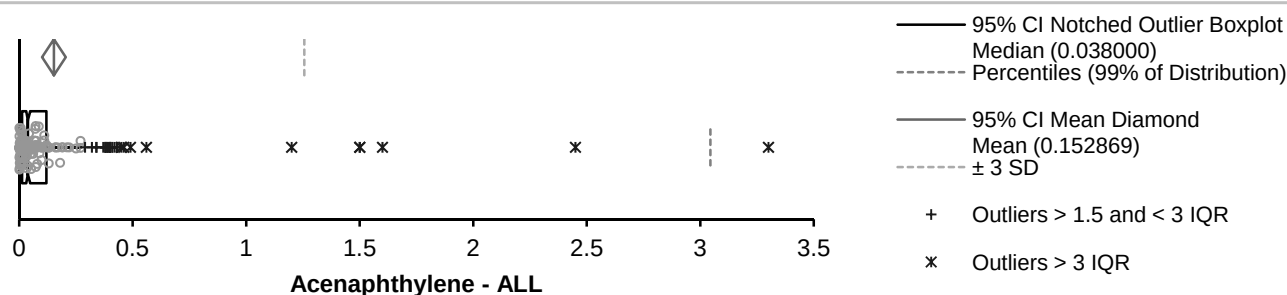
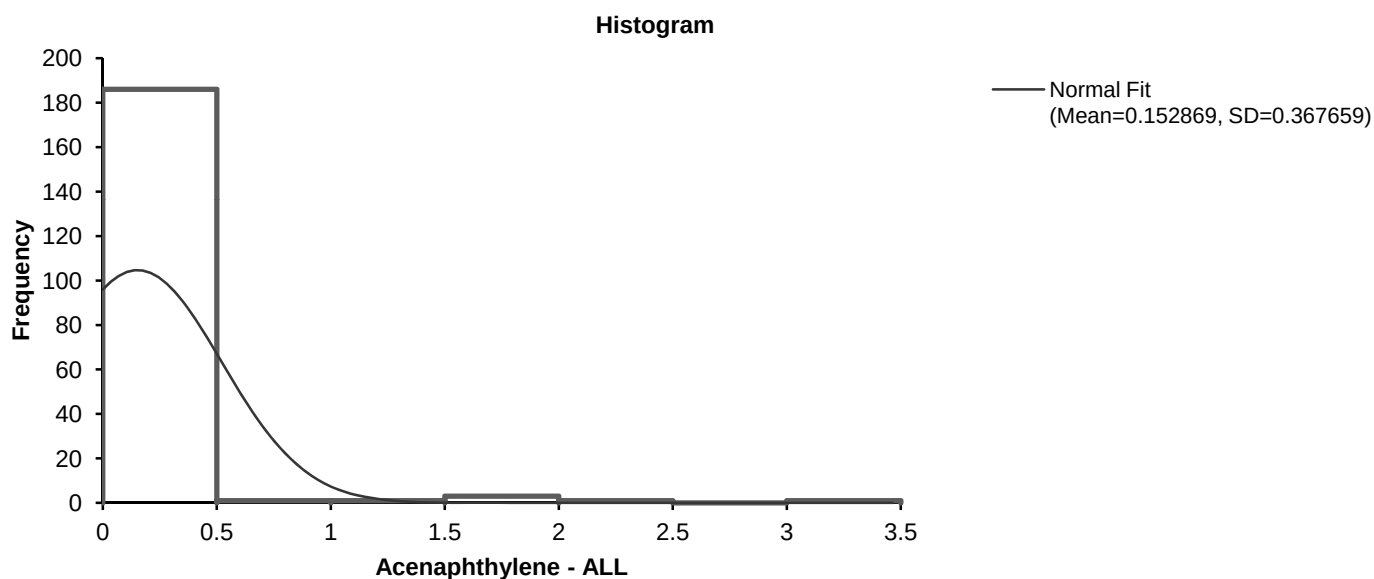
Acenaphthene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.00110	0.001300	0.003700	0.001600 to 0.006900	0.012000	0.08400	0.010700
Area 1	19	0.02900	0.046500	0.130000	0.046000 to 0.430000	0.423333	0.49000	0.376833
Area 2	43	0.00087	0.003717	0.011000	0.006310 to 0.037000	0.396667	0.52000	0.392950
Area 3	47	0.00120	0.006000	0.016000	0.008300 to 0.033000	0.323333	0.39000	0.317333
Area 4	51	0.00110	0.005633	0.014000	0.008800 to 0.033000	0.211667	2.00000	0.206033

Test **Describe - Summary**

Ft. Totten Soil
Acenaphthylene - ALL

Performed by AMEC

Date 11 February 2012



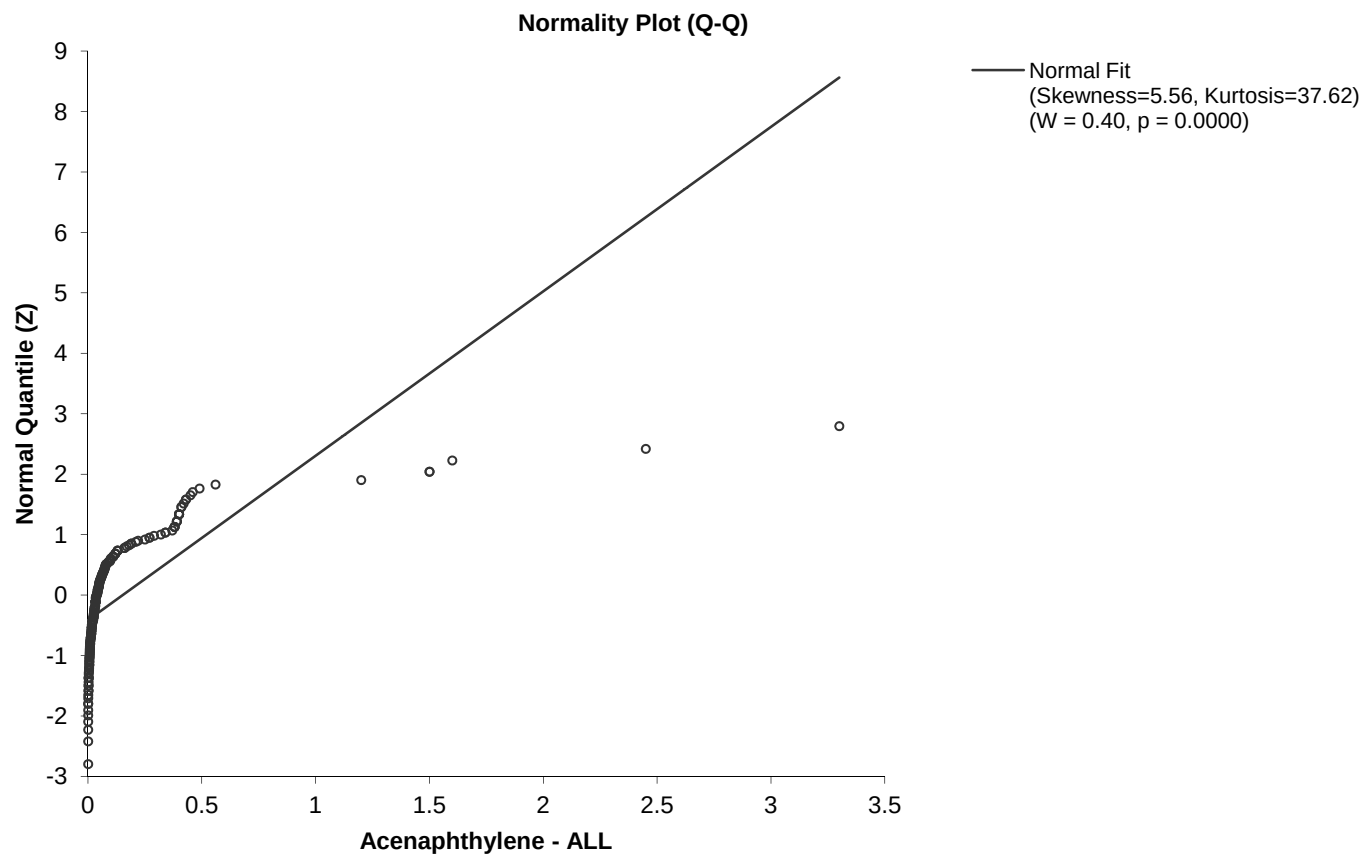
n	193		
Mean	0.152869	Median	0.038000
95% CI	0.100670 to 0.205068	95.6% CI	0.031000 to 0.049000
SE	0.0264647		
		Range	3.29928
Variance	0.135173	IQR	0.107333
SD	0.367659		
95% CI	0.334275 to 0.408509	Percentile	
		0th	0.000720 (minimum)
CV	240.5%	0.5th	0.000726
		25th	0.012667 (1st quartile)
Skewness	5.56	50th	0.038000 (median)
Kurtosis	37.62	75th	0.120000 (3rd quartile)
		99.5th	3.045000
Shapiro-Wilk W	0.40	100th	3.300000 (maximum)
p	<0.0001		

Test | **Describe - Summary**

Ft. Totten Soil
Acenaphthylene - ALL

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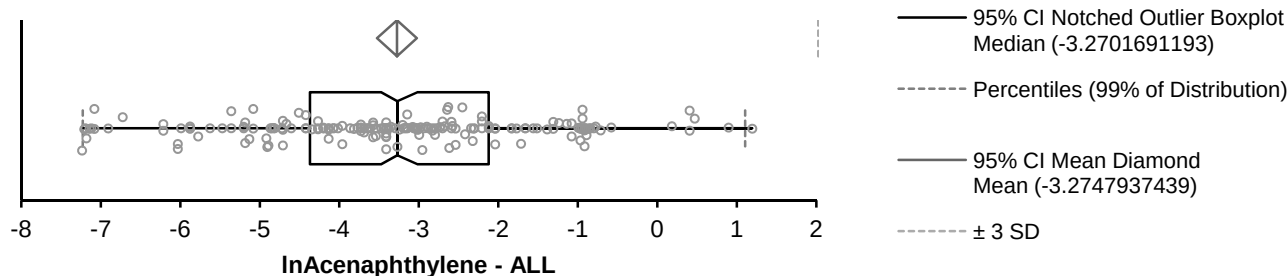
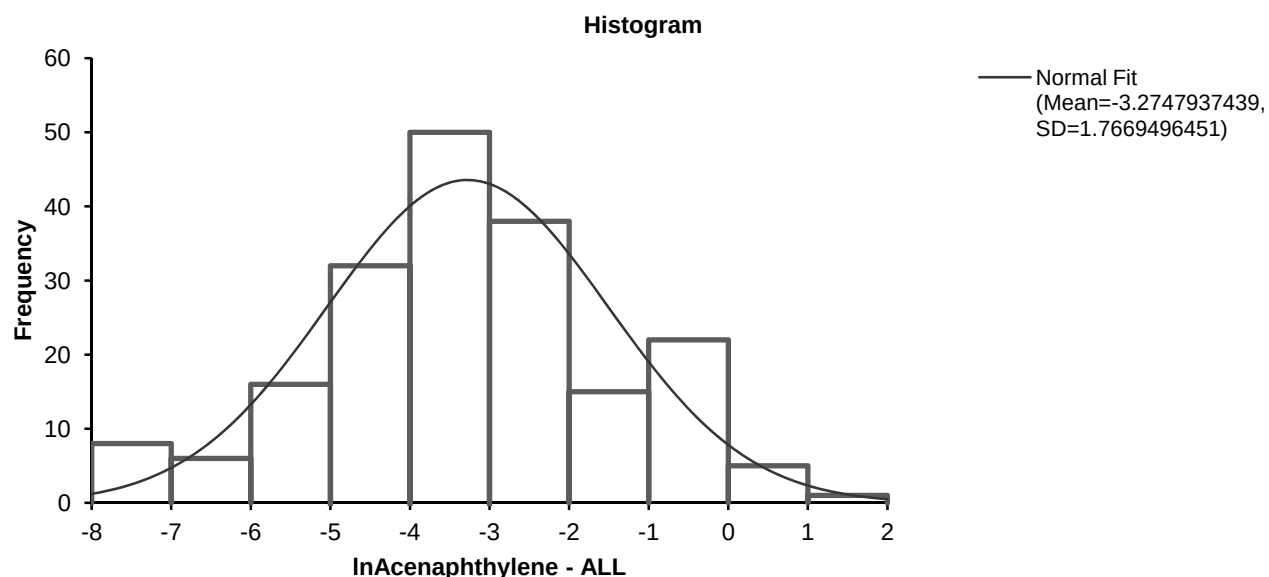
Date | 11 February 2012



Test | Describe - Summary
Ft. Totten Soil
InAcenaphthylene - ALL

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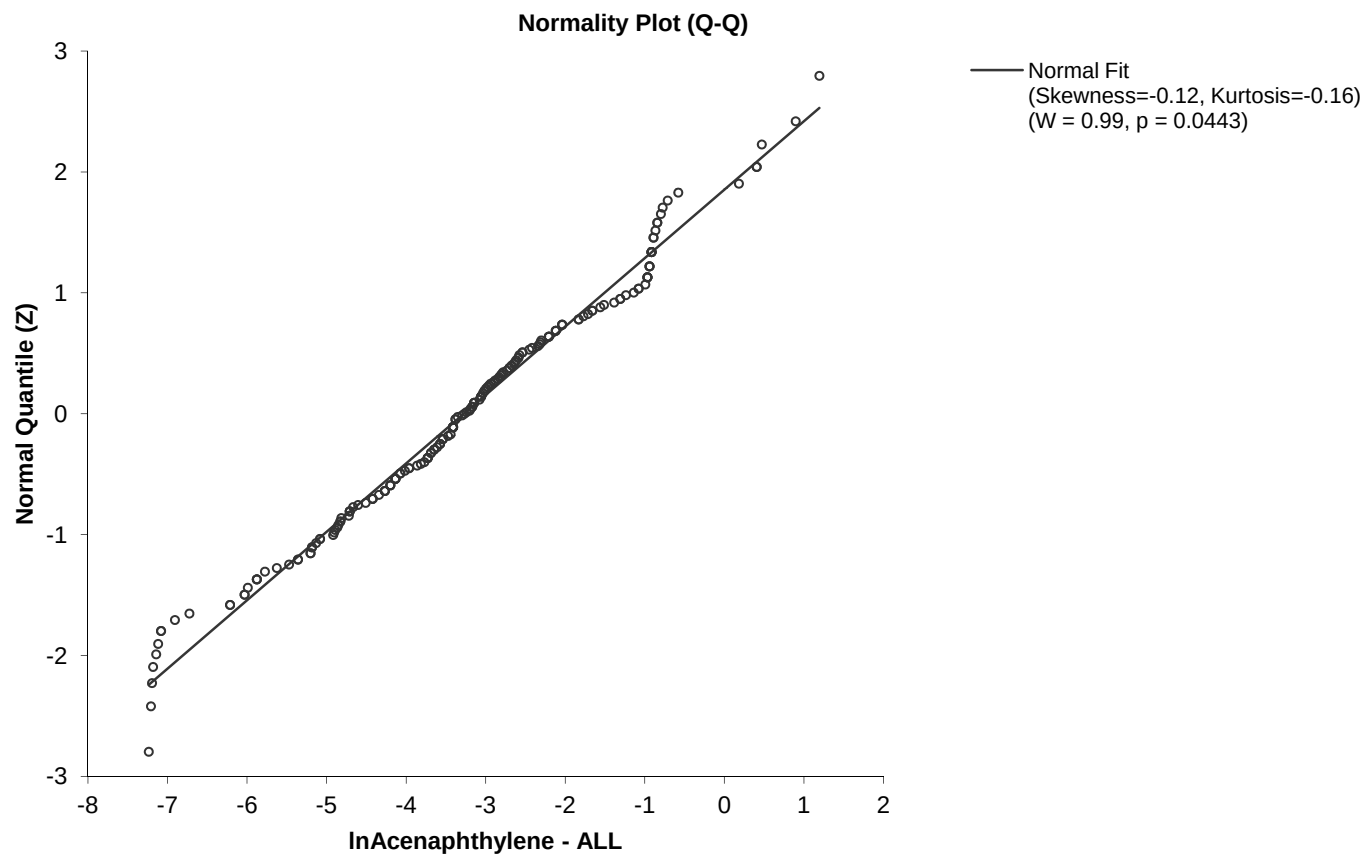
n	193		
Mean	-3.2747937439	Median	-3.2701691193
95% CI	-3.5256585274 to -3.02392896	95.6% CI	-3.4737680745 to -3.01593498
SE	0.1271878185		
Variance	3.1221110481	Range	8.430181814
SD	1.7669496451	IQR	2.2492232879
95% CI	1.6065075394 to 1.96327347	Percentile	
CV	-54.0%	0th	-7.2362593460 (minimum)
Skewness	-0.12	0.5th	-7.2280396537
Kurtosis	-0.16	25th	-4.3694868241 (1st quartile)
Shapiro-Wilk W	0.99	50th	-3.2701691193 (median)
p	0.044	75th	-2.1202635362 (3rd quartile)
		99.5th	1.1045721353
		100th	1.1939224685 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InAcenaphthylene - ALL

Performed by AMEC

Date | 11 February 2012



Test **Describe - Comparative**

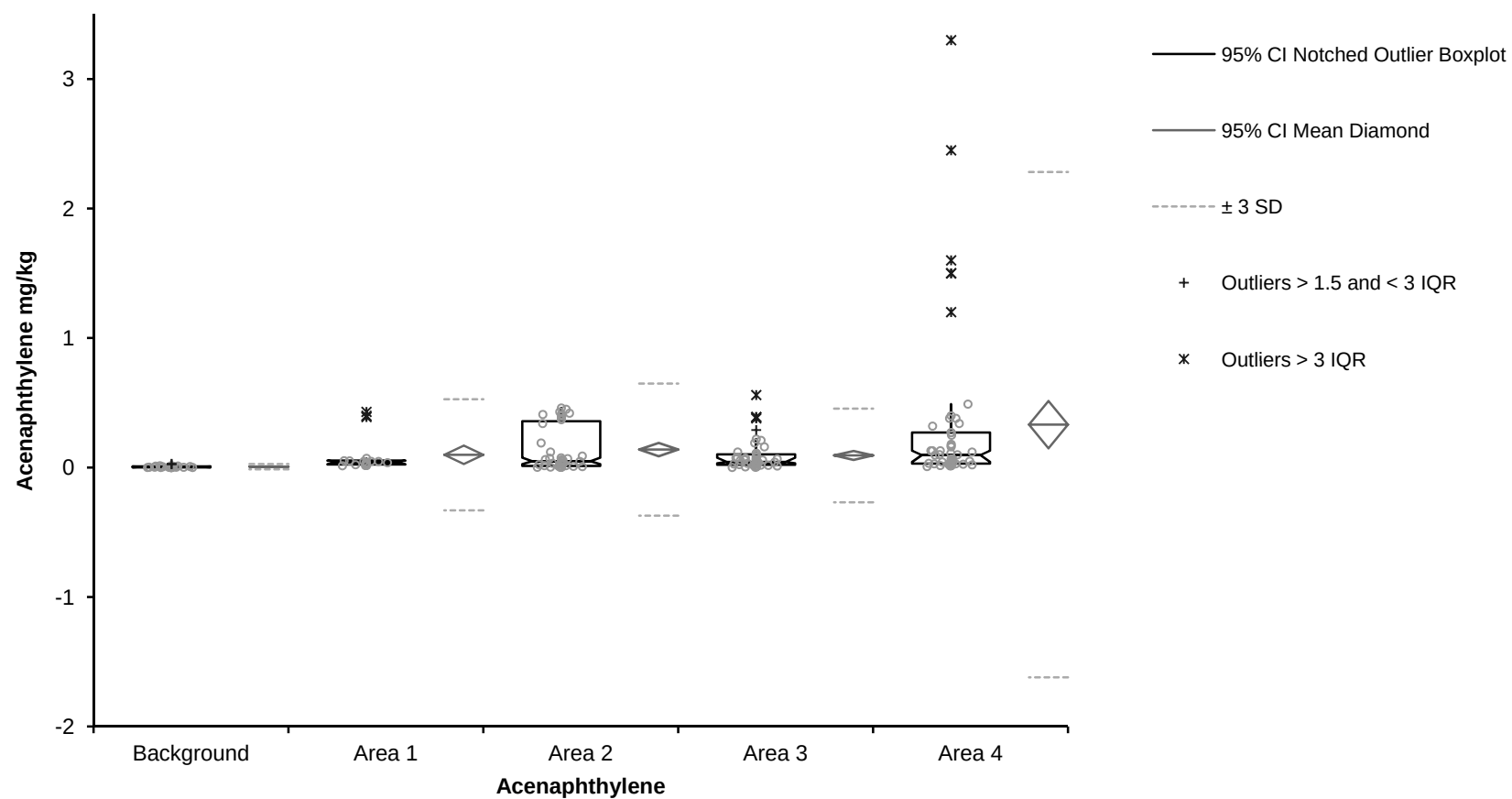
Ft. Totten Soil

Acenaphthylene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Acenaphthylene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Acenaphthylene	n	Mean	95% CI	SE	SD
Background	31	0.006595	0.004074 to 0.009117	0.0012346	0.0068739
Area 1	18	0.098089	0.026978 to 0.169199	0.0337046	0.1429964
Area 2	44	0.138421	0.086733 to 0.190109	0.0256300	0.1700104
Area 3	49	0.093124	0.058531 to 0.127718	0.0172052	0.1204362
Area 4	51	0.330980	0.148075 to 0.513886	0.0910631	0.6503206

Acenaphthylene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.00072	0.000900	0.005600	0.002400 to 0.008000	0.009000	0.02900	0.008100
Area 1	18	0.01400	0.023833	0.043800	0.024000 to 0.053000	0.054500	0.43000	0.030667
Area 2	44	0.00200	0.012083	0.048500	0.026000 to 0.075000	0.357500	0.46000	0.345417
Area 3	49	0.00100	0.021667	0.043000	0.033000 to 0.075000	0.102000	0.56000	0.080333
Area 4	51	0.00800	0.029667	0.096000	0.043000 to 0.130000	0.270000	3.30000	0.240333

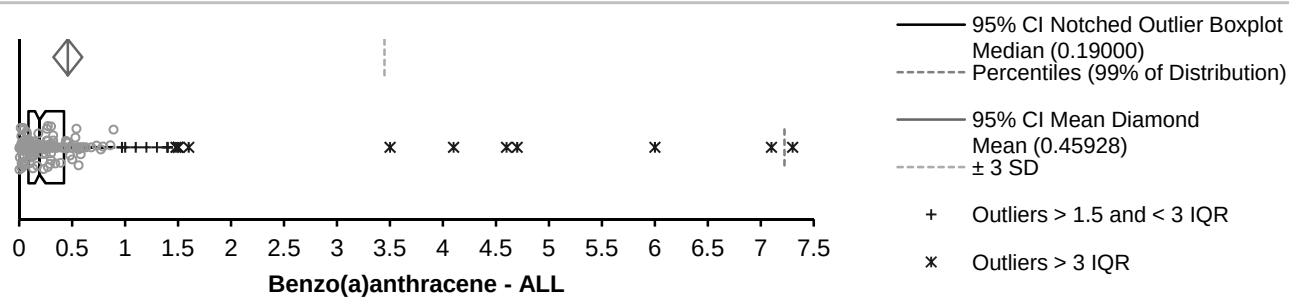
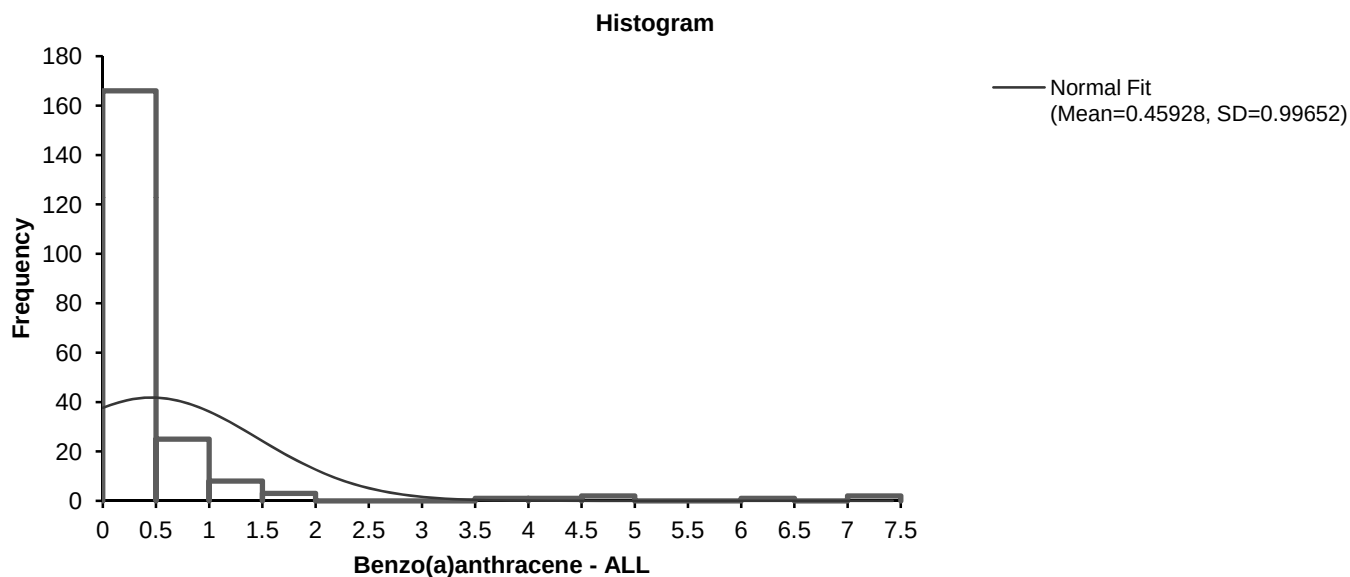
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(a)anthracene - ALL

Performed by | AMEC

Date | 10 February 2012



n	209		
Mean	0.45928	Median	0.19000
95% CI	0.32339 to 0.59517	96.2% CI	0.15000 to 0.25000
SE	0.068931		
Variance	0.99305	Range	7.2978
SD	0.99652	IQR	0.33567
95% CI	0.90927 to 1.10244		
CV	217.0%	Percentile	
Skewness	4.95	0th	0.00220 (minimum)
Kurtosis	26.90	0.5th	0.00228
		25th	0.08767 (1st quartile)
		50th	0.19000 (median)
		75th	0.42333 (3rd quartile)
		99.5th	7.22400
Shapiro-Wilk W	0.40	100th	7.30000 (maximum)
p	<0.0001		

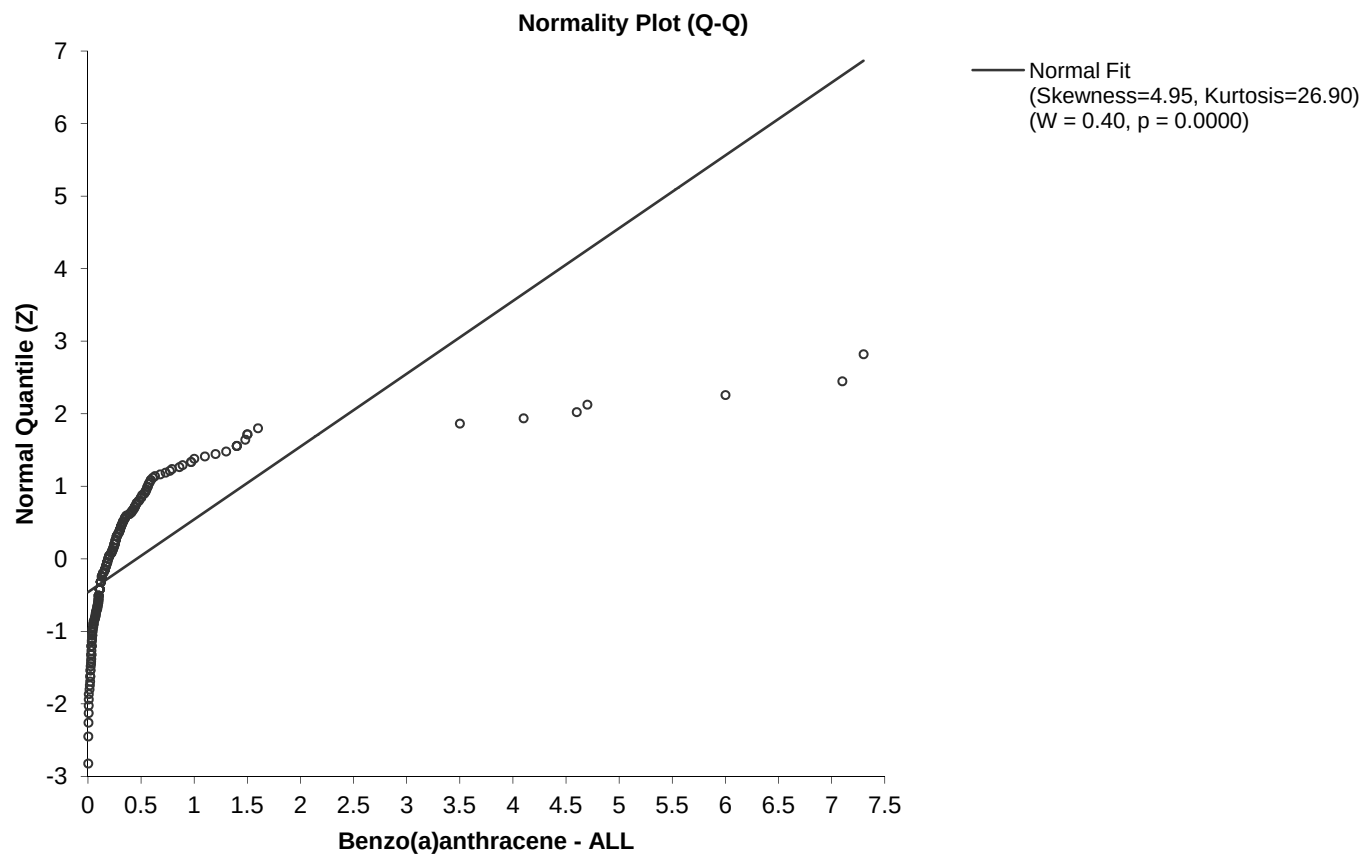
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(a)anthracene - ALL

Performed by AMEC

Date | 10 February 2012



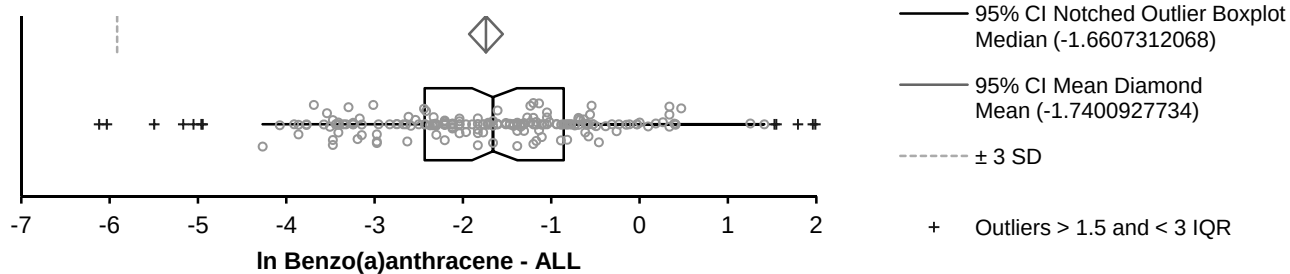
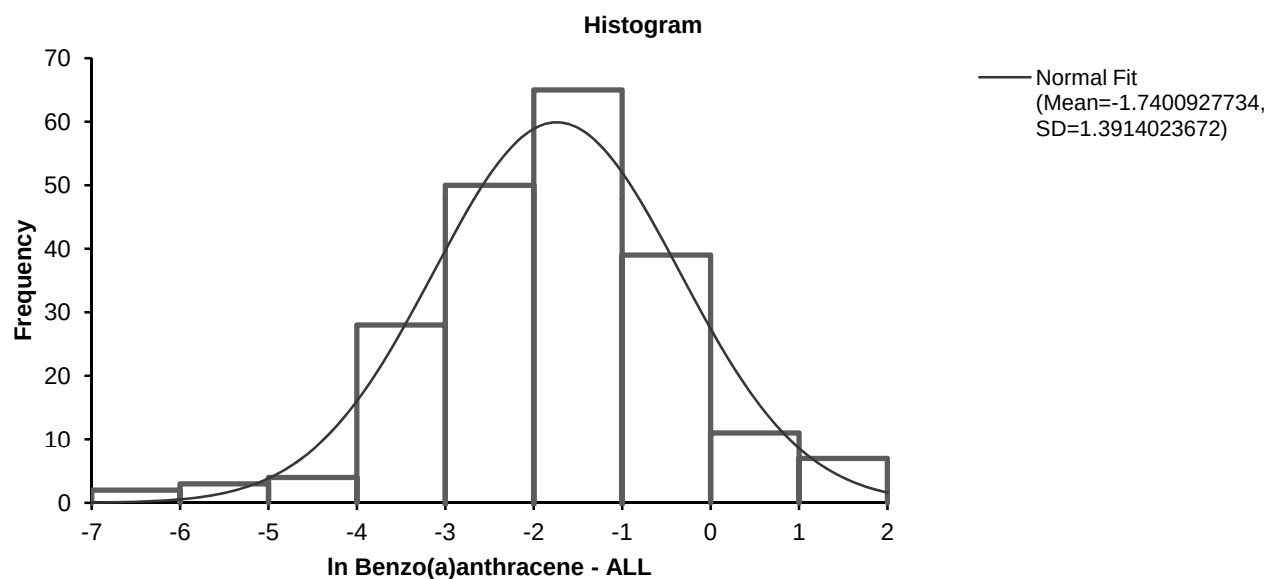
Test | **Describe - Summary**

Ft. Totten Soil

In Benzo(a)anthracene - ALL

Performed by | AMEC

Date | 10 February 2012



n	209		
Mean	-1.7400927734	Median	-1.6607312068
95% CI	-1.9298341039 to -1.55035144	96.2% CI	-1.8971199849 to -1.38629436
SE	0.0962453142		
Variance	1.9360005473	Range	8.107172267
SD	1.3914023672	IQR	1.5745709612
95% CI	1.2695734937 to 1.53929708	Percentile	
CV	-80.0%	0th	-6.1192979186 (minimum)
Skewness	-0.20	25th	-2.4342280298 (1st quartile)
Kurtosis	0.86	50th	-1.6607312068 (median)
		75th	-0.8596570686 (3rd quartile)
		100th	1.9878743482 (maximum)
Shapiro-Wilk W	0.98		
p	0.013		

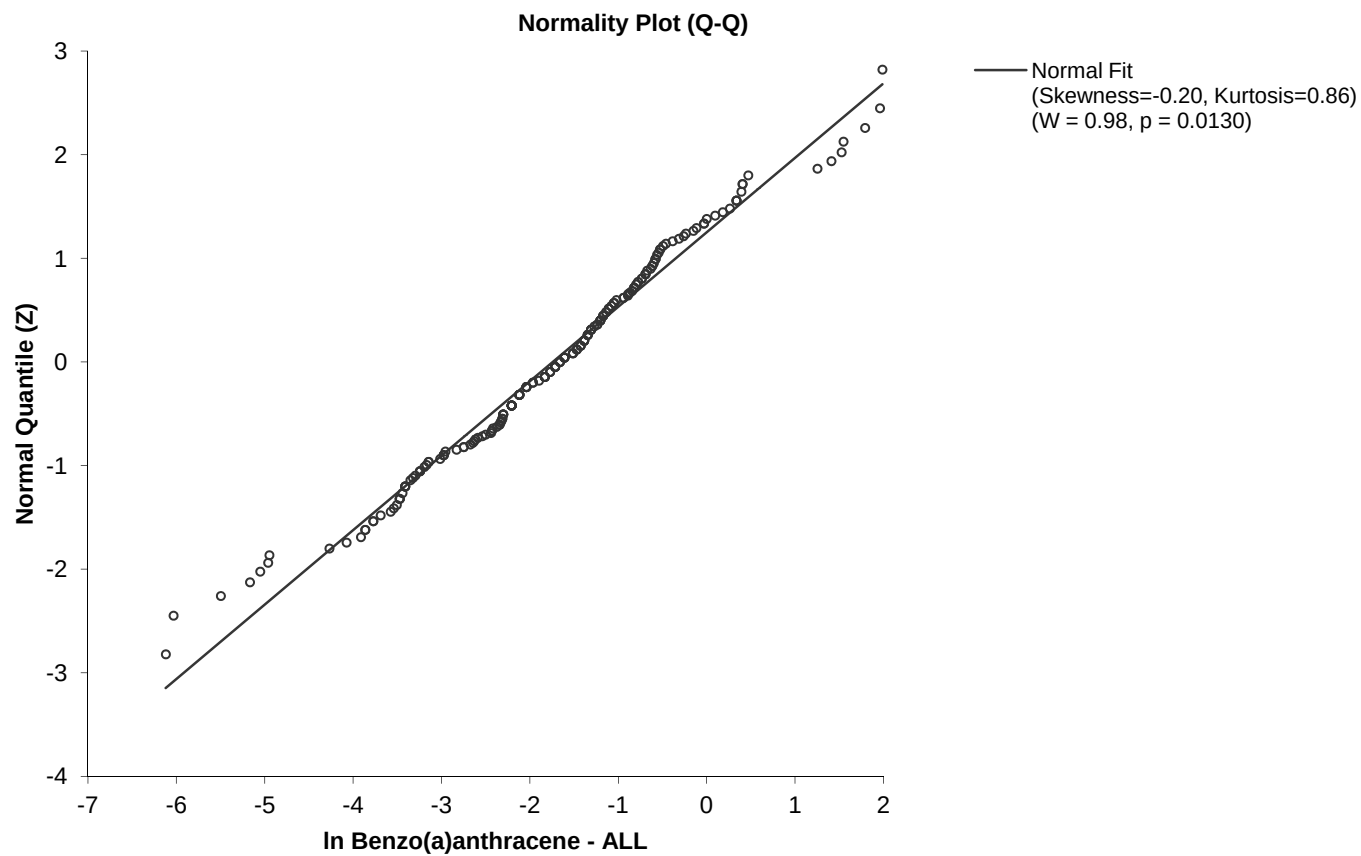
Test | **Describe - Summary**

Ft. Totten Soil

In Benzo(a)anthracene - ALL

Performed by AMEC

Date | 10 February 2012



Test Describe - Comparative

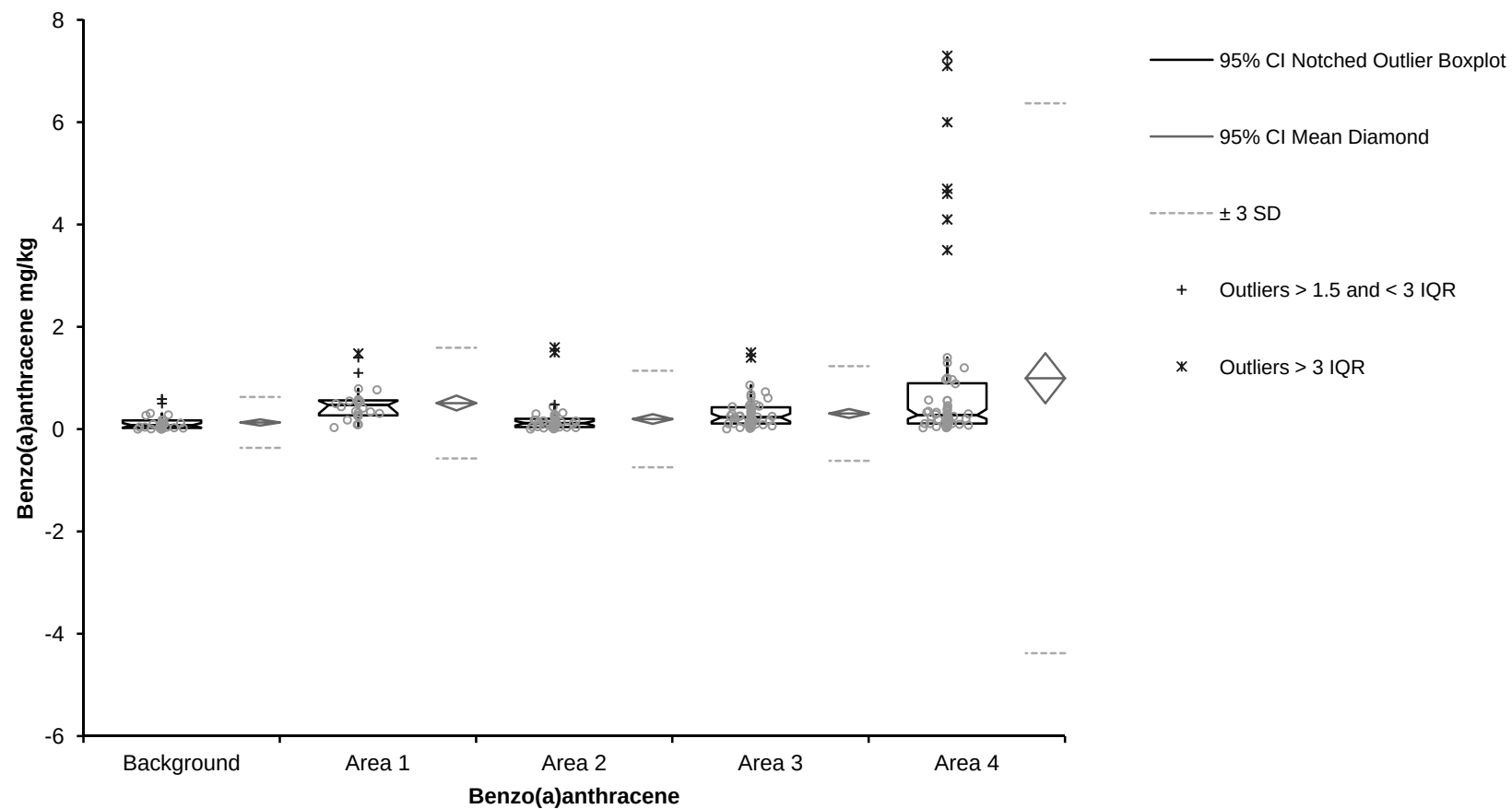
Ft. Totten Soil

Benzo(a)anthracene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Benzo(a)anthracene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Benzo(a)anthracene	n	Mean	95% CI	SE	SD
Background	31	0.13136	0.07070 to 0.19203	0.029706	0.165396
Area 1	26	0.50792	0.36221 to 0.65364	0.070751	0.360763
Area 2	45	0.19741	0.10283 to 0.29200	0.046932	0.314828
Area 3	51	0.30557	0.21888 to 0.39226	0.043160	0.308221
Area 4	54	0.99489	0.50589 to 1.48389	0.243800	1.791556

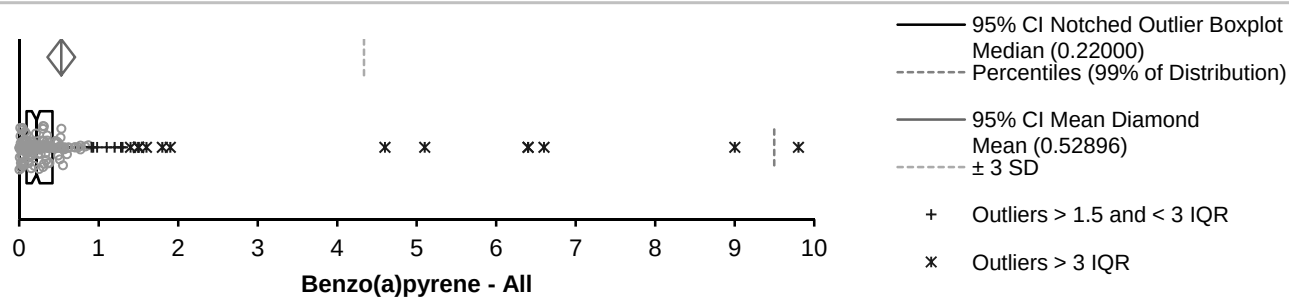
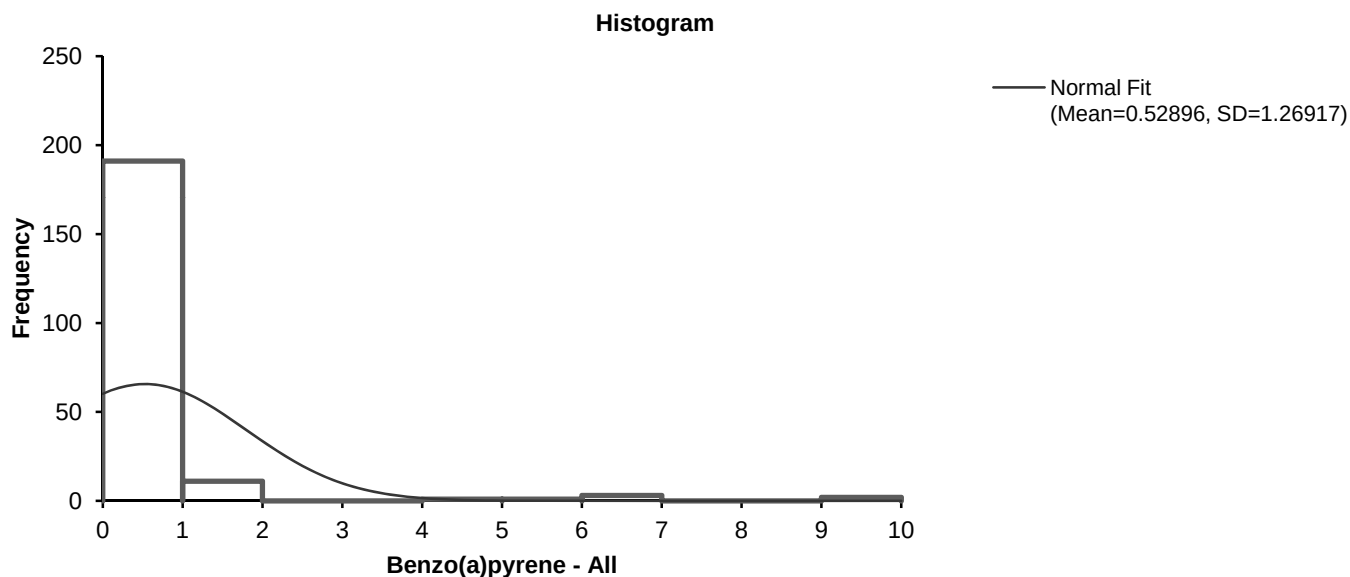
Benzo(a)anthracene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0022	0.02300	0.07200	0.03000 to 0.12000	0.17167	0.5900	0.14867
Area 1	26	0.0330	0.26917	0.47000	0.31000 to 0.55000	0.56167	1.4800	0.29250
Area 2	45	0.0041	0.04100	0.12000	0.07100 to 0.16000	0.20333	1.6000	0.16233
Area 3	51	0.0071	0.11000	0.23000	0.15000 to 0.30000	0.42833	1.5000	0.31833
Area 4	54	0.0280	0.11000	0.27000	0.20000 to 0.39000	0.89667	7.3000	0.78667

Test | **Describe - Summary**

Ft. Totten
Benzo(a)pyrene - All
AMEC

Performed by

Date | 11 February 2012



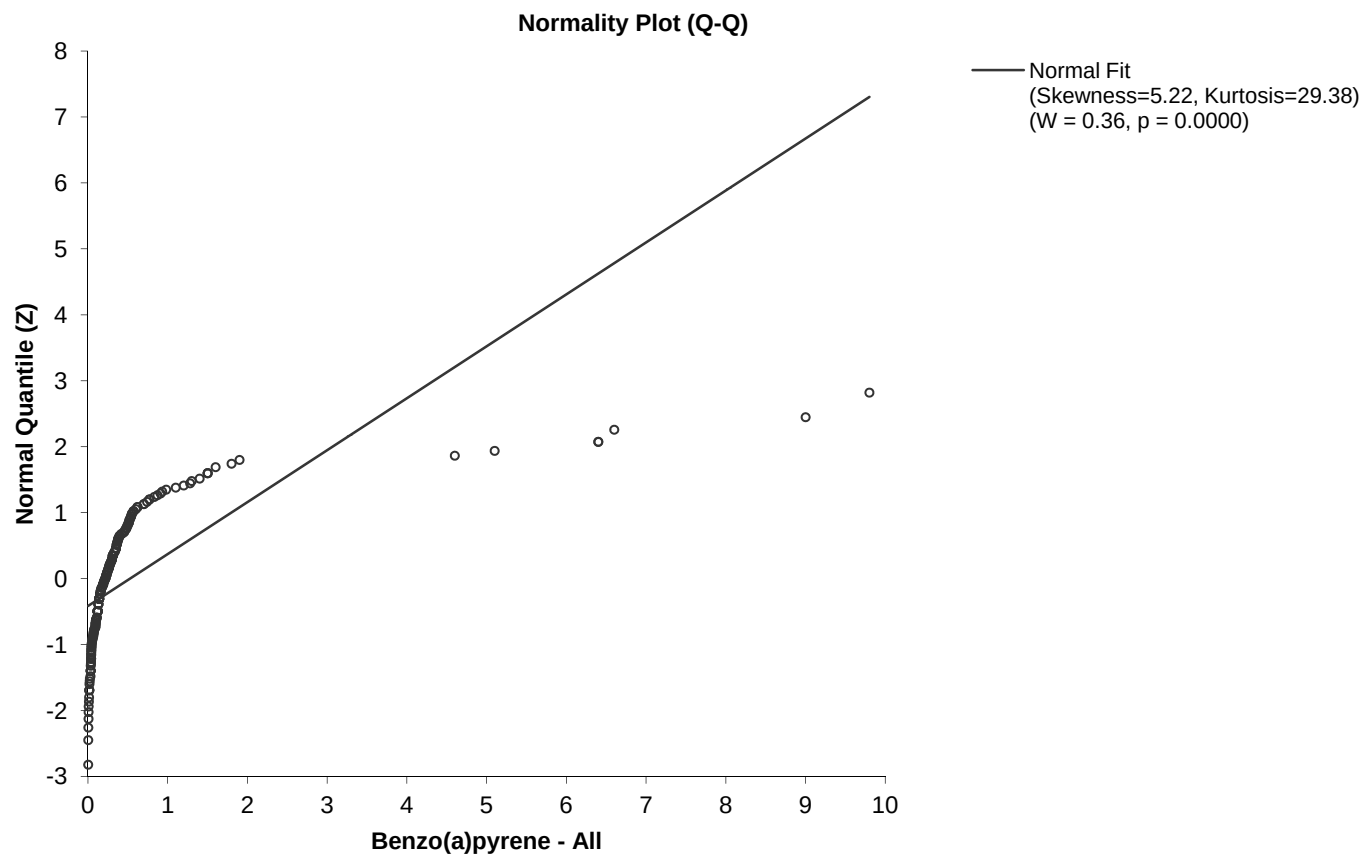
n	209		
Mean	0.52896	Median	0.22000
95% CI	0.35588 to 0.70203	96.2% CI	0.16000 to 0.26000
SE	0.087791		
Variance	1.61080	Range	9.7978
SD	1.26917	IQR	0.32600
95% CI	1.15805 to 1.40408		
CV	239.9%	Percentile	
Skewness	5.22	0th	0.00220 (minimum)
Kurtosis	29.38	0.5th	0.00243
		25th	0.09400 (1st quartile)
		50th	0.22000 (median)
		75th	0.42000 (3rd quartile)
		99.5th	9.49600
Shapiro-Wilk W	0.36	100th	9.80000 (maximum)
p	<0.0001		

Test | **Describe - Summary**

Ft. Totten
Benzo(a)pyrene - All

Performed by AMEC

Date | 11 February 2012



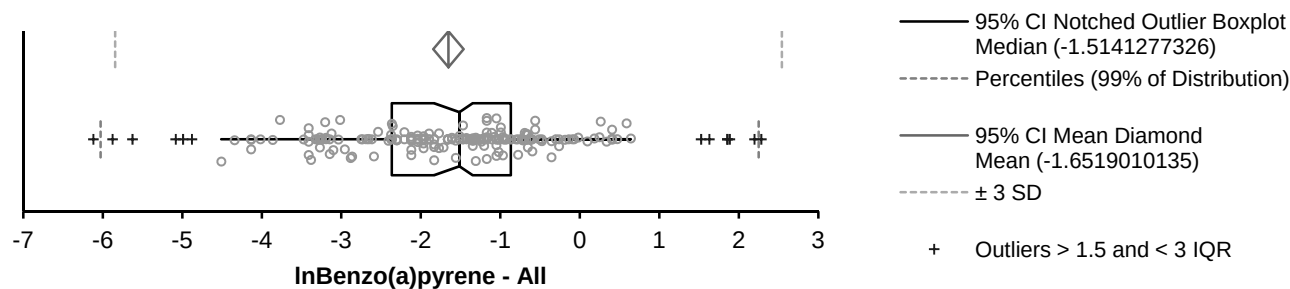
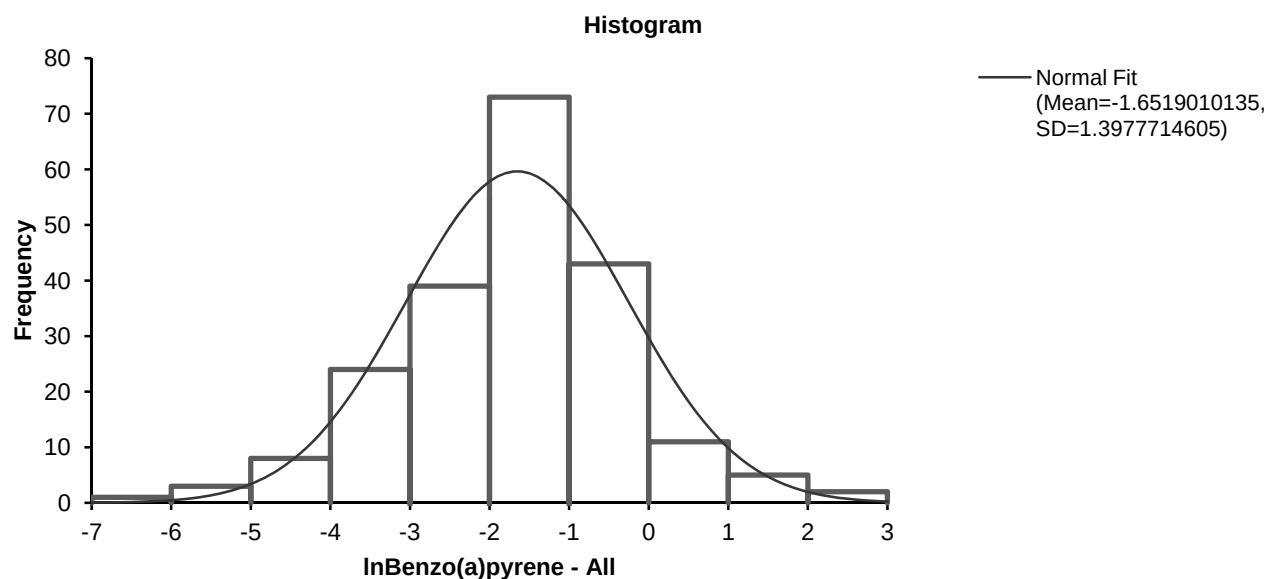
Test | Describe - Summary

Ft. Totten Soil

InBenzo(a)pyrene - All

Performed by | AMEC

Date | 11 February 2012



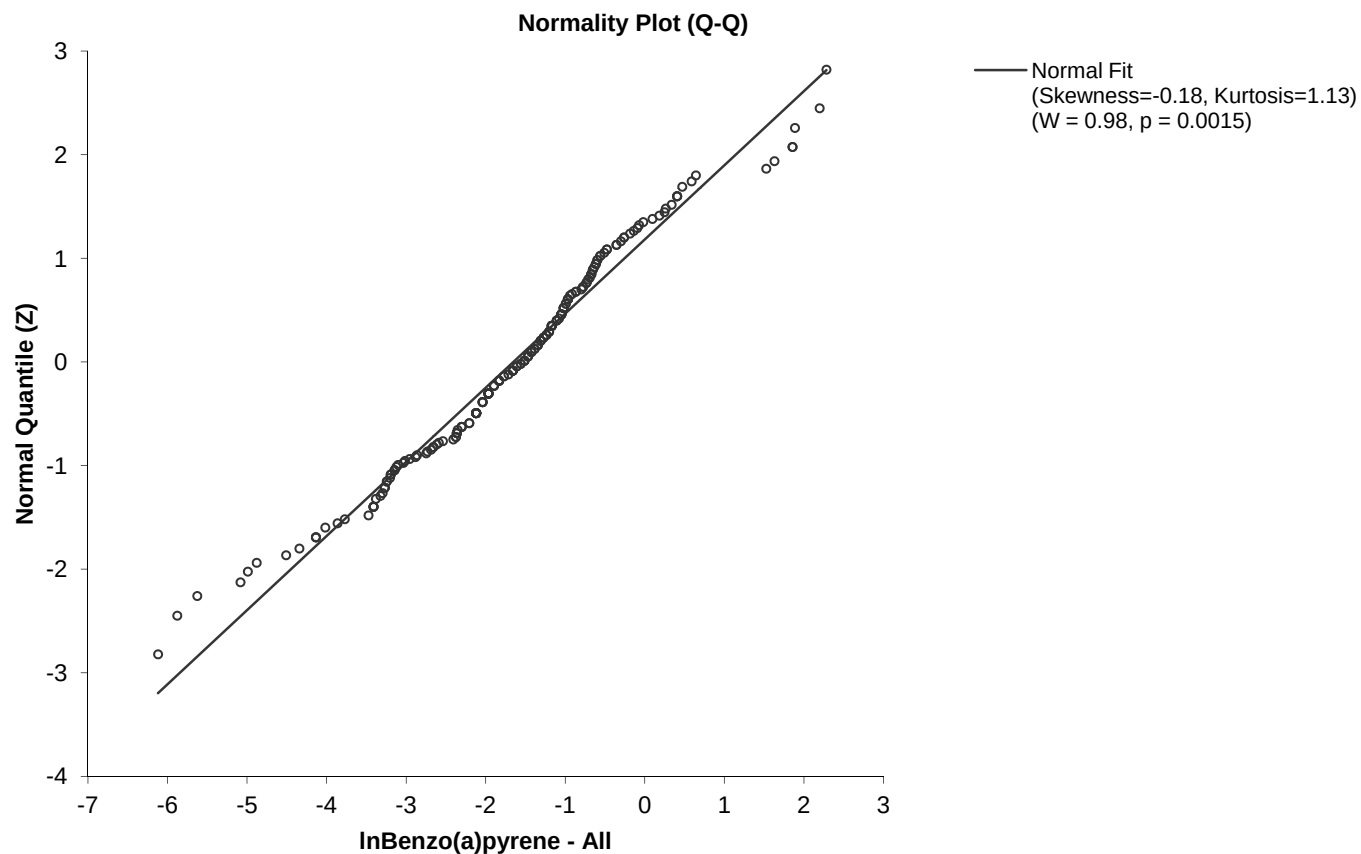
n	209		
Mean	-1.6519010135	Median	-1.5141277326
95% CI	-1.8425108780 to -1.46129115	96.2% CI	-1.8325814637 to -1.34707365
SE	0.0966858736		
Variance	1.9537650558	Range	8.401680304
SD	1.3977714605	IQR	1.4969599290
95% CI	1.2753849199 to 1.54634316	Percentile	
CV	-84.6%	0th	-6.1192979186 (minimum)
Skewness	-0.18	0.5th	-6.0276563370
Kurtosis	1.13	25th	-2.3644604967 (1st quartile)
Shapiro-Wilk W	0.98	50th	-1.5141277326 (median)
p	0.002	75th	-0.8675005677 (3rd quartile)
		99.5th	2.2500224185
		100th	2.2823823857 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InBenzo(a)pyrene - All

Performed by AMEC

Date | 11 February 2012



Test Describe - Comparative

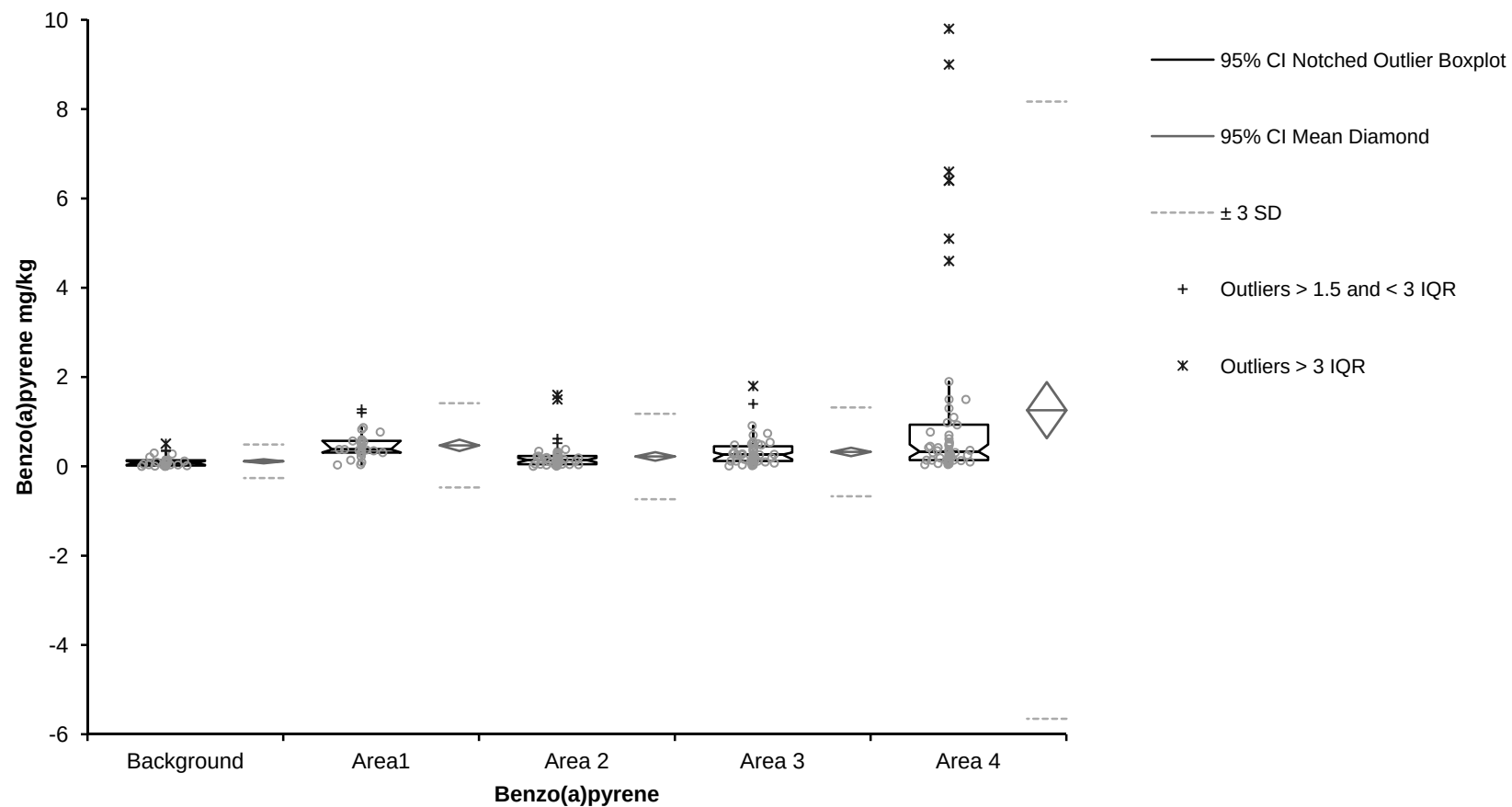
Ft. Totten Soil

Benzo(a)pyrene: Background, Area1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Benzo(a)pyrene: Background, Area1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Benzo(a)pyrene	n	Mean	95% CI	SE	SD
Background	31	0.11248	0.06655 to 0.15841	0.022490	0.125219
Area1	26	0.47064	0.34379 to 0.59749	0.061590	0.314049
Area 2	45	0.22121	0.12541 to 0.31701	0.047537	0.318885
Area 3	51	0.32357	0.23023 to 0.41691	0.046470	0.331859
Area 4	54	1.25781	0.62891 to 1.88672	0.313554	2.304140

Benzo(a)pyrene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0022	0.01683	0.07300	0.03400 to 0.12000	0.13667	0.5100	0.11983
Area1	26	0.0330	0.30833	0.38000	0.31000 to 0.57000	0.57250	1.2800	0.26417
Area 2	45	0.0036	0.04667	0.14000	0.09000 to 0.19000	0.23333	1.6000	0.18667
Area 3	51	0.0110	0.12000	0.26000	0.16000 to 0.31000	0.45000	1.8000	0.33000
Area 4	54	0.0410	0.14000	0.33000	0.21000 to 0.49000	0.93417	9.8000	0.79417

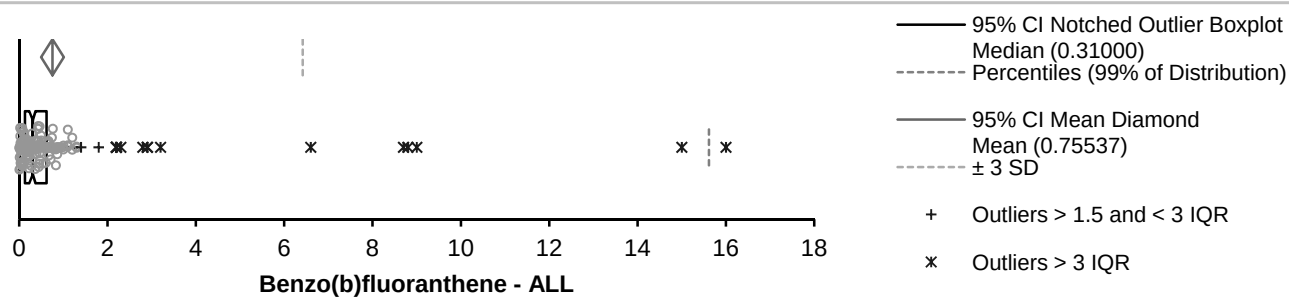
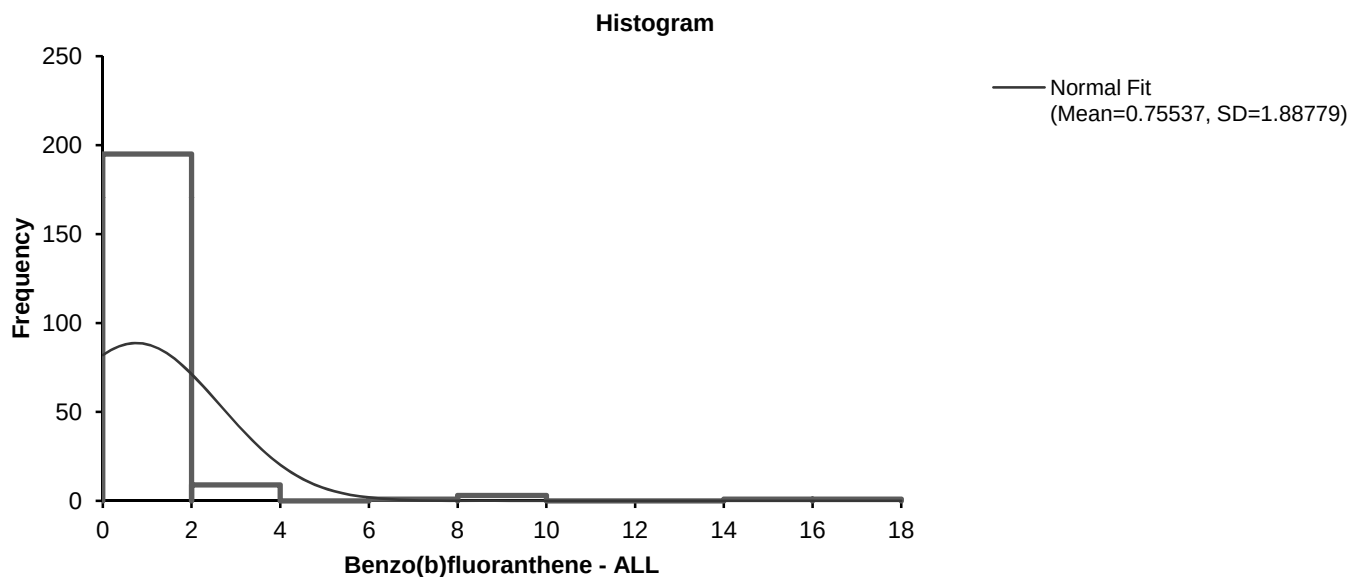
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(b)fluoranthene - ALL

Performed by | AMEC

Date | 12 February 2012



n	210		
Mean	0.75537	Median	0.31000
95% CI	0.49856 to 1.01219	95.5% CI	0.23000 to 0.37000
SE	0.130270		
Variance	3.56376	Range	15.9960
SD	1.88779	IQR	0.49083
95% CI	1.72286 to 2.08792		
CV	249.9%	Percentile	
Skewness	5.92	0th	0.00400 (minimum)
Kurtosis	39.32	0.5th	0.00419
		25th	0.13000 (1st quartile)
		50th	0.31000 (median)
		75th	0.62083 (3rd quartile)
		99.5th	15.61500
Shapiro-Wilk W	0.34	100th	16.00000 (maximum)
p	<0.0001		

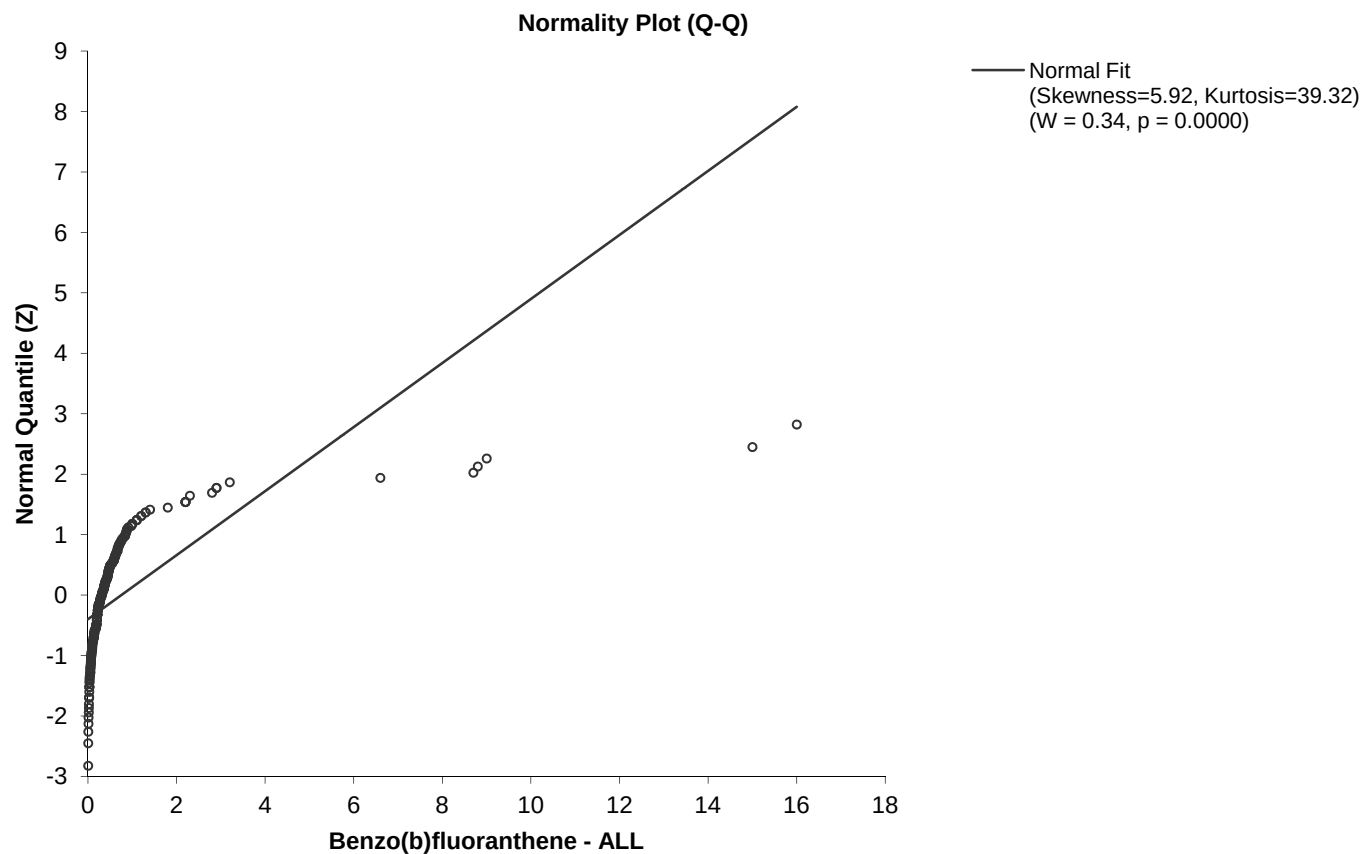
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(b)fluoranthene - ALL

Performed by AMEC

Date | 12 February 2012

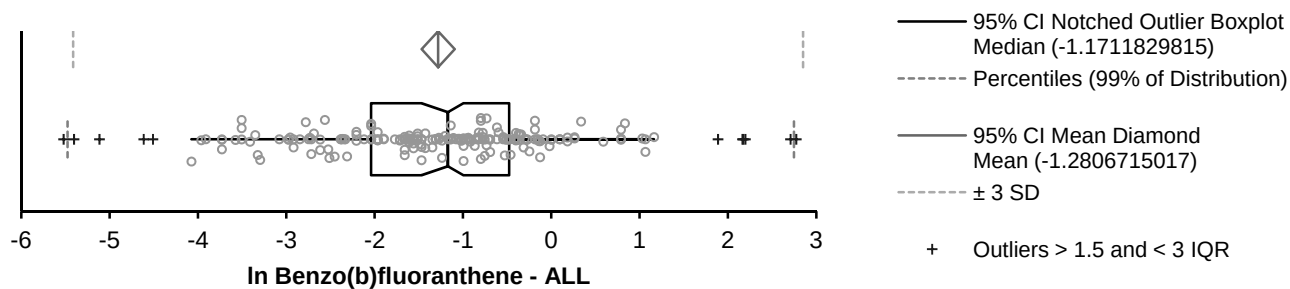
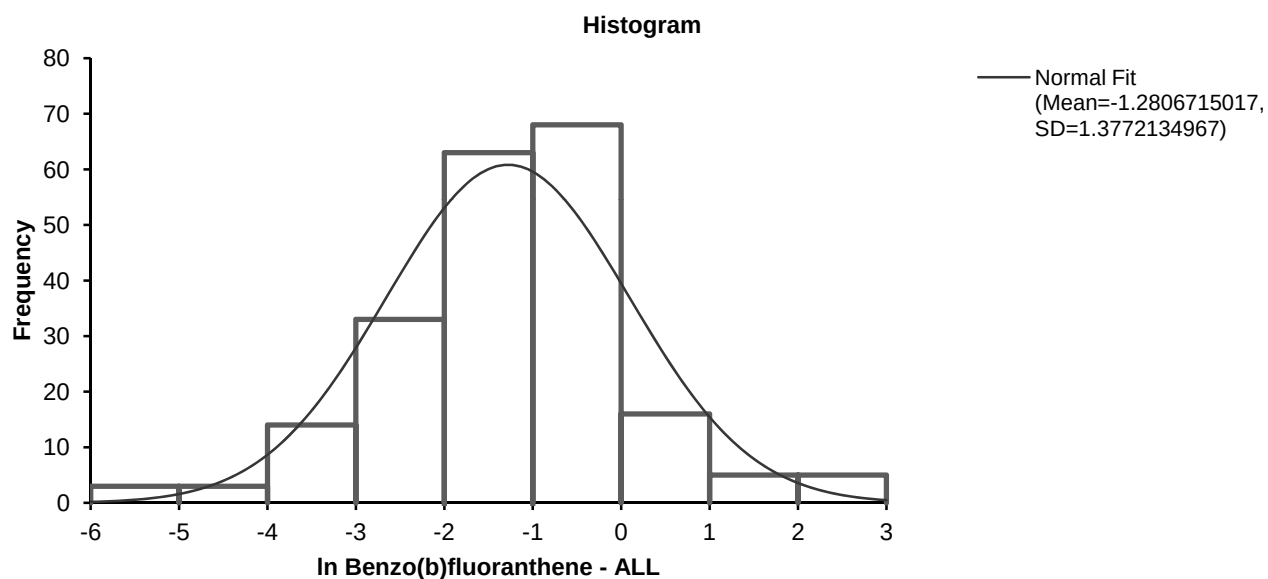


Test | **Describe - Summary**

Ft. Totten Soil
In Benzo(b)fluoranthene - ALL

Performed by | AMEC

Date | 12 February 2012



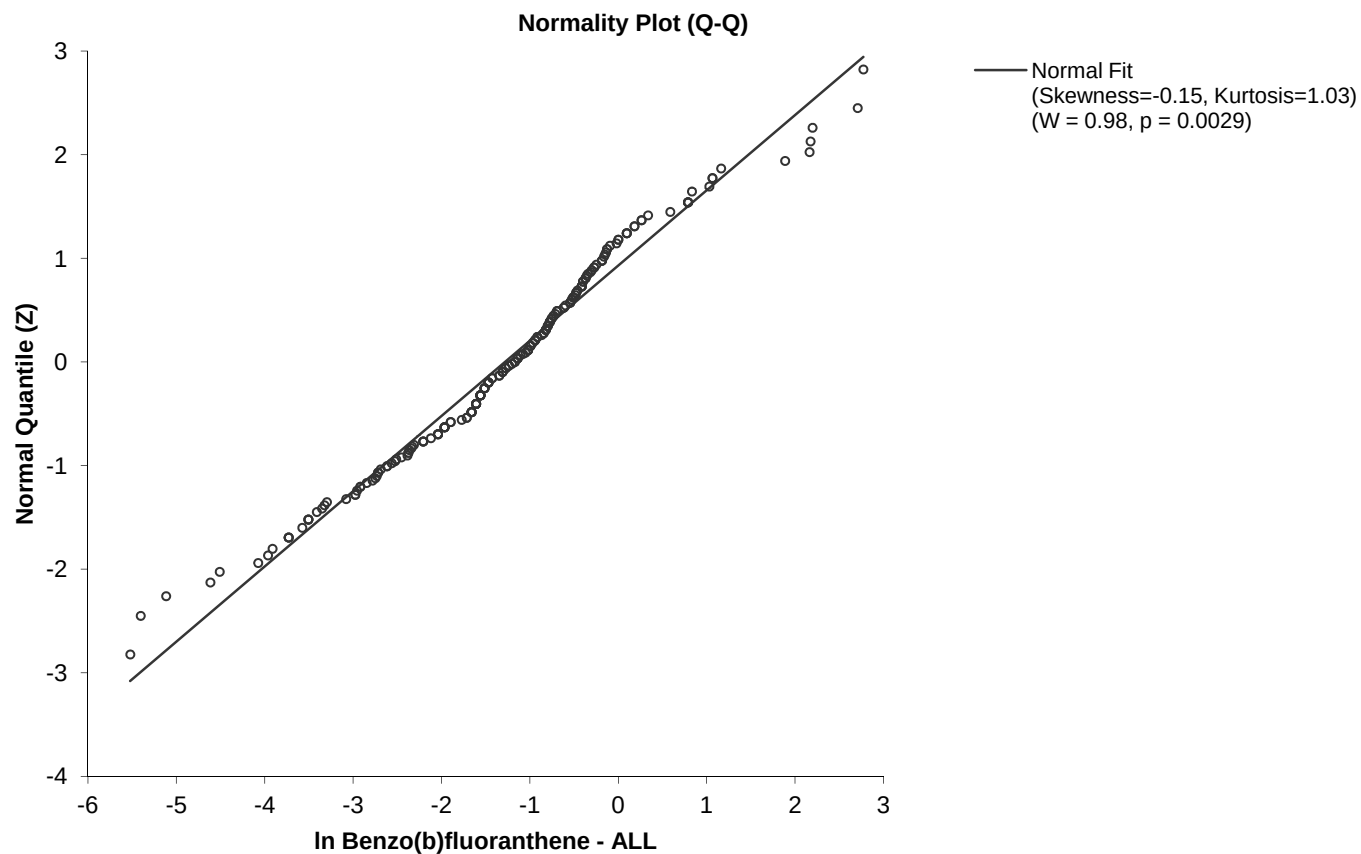
n	210		
Mean	-1.2806715017	Median	-1.1711829815
95% CI	-1.4680250013 to -1.09331800	95.5% CI	-1.4696759701 to -0.99425227
SE	0.0950367602		
Variance	1.8967170154	Range	8.294049640
SD	1.3772134967	IQR	1.5635183894
95% CI	1.2568900210 to 1.52321265	Percentile	
CV	-107.5%	0th	-5.5214609179 (minimum)
Skewness	-0.15	0.5th	-5.4761144491
Kurtosis	1.03	25th	-2.0402208285 (1st quartile)
Shapiro-Wilk W	0.98	50th	-1.1711829815 (median)
p	0.003	75th	-0.4767024392 (3rd quartile)
		99.5th	2.7477413916
		100th	2.7725887222 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
In Benzo(b)fluoranthene - ALL

Performed by AMEC

Date | 12 February 2012



Test **Describe - Comparative**

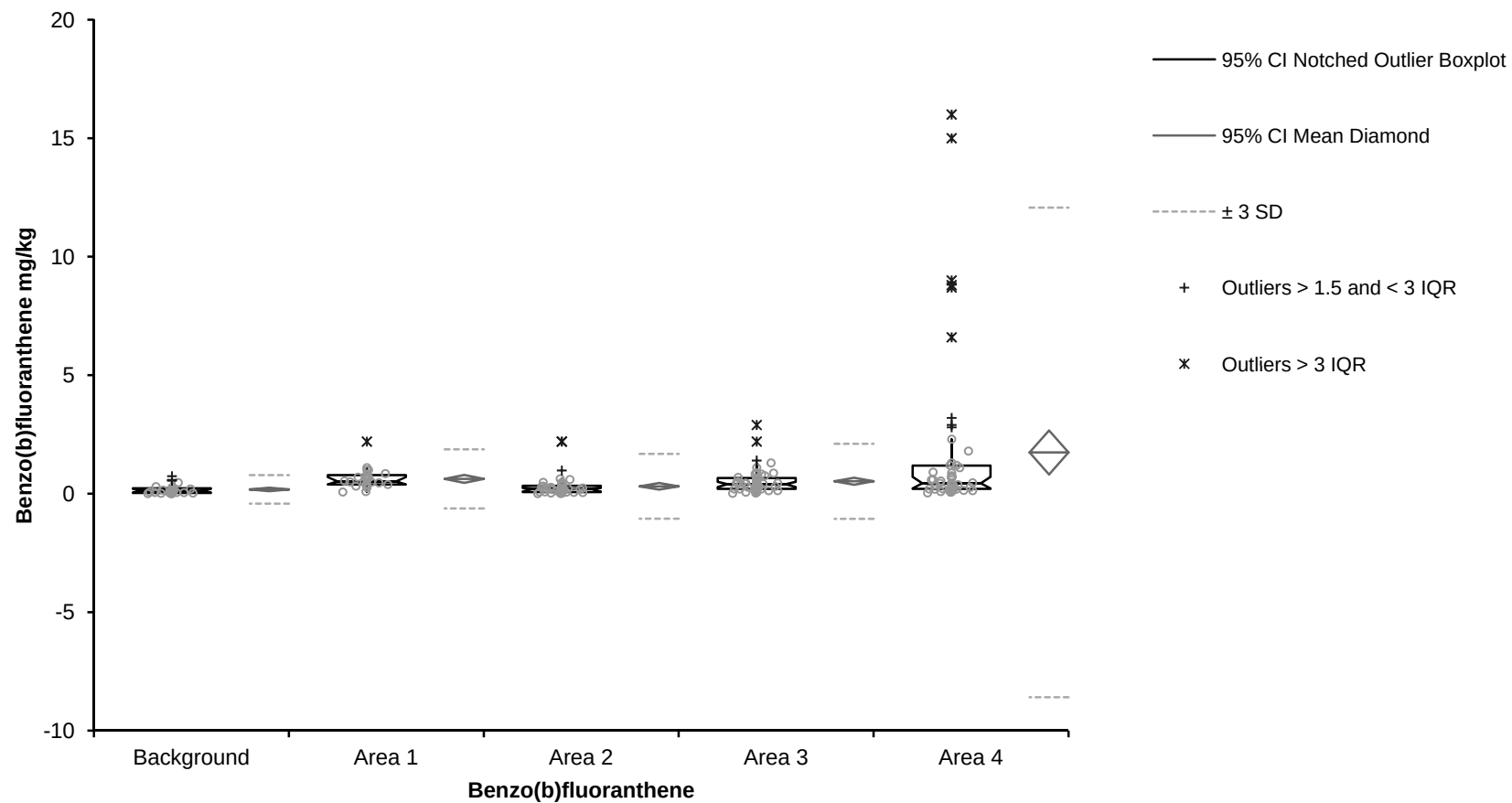
Ft. Totten Soil

Benzo(b)fluoranthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Benzo(b)fluoranthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Benzo(b)fluoranthene	n	Mean	95% CI	SE	SD
Background	31	0.17972	0.10600 to 0.25344	0.036096	0.200974
Area 1	26	0.62192	0.45392 to 0.78993	0.081575	0.415953
Area 2	45	0.31047	0.17342 to 0.44752	0.068002	0.456173
Area 3	51	0.52214	0.37376 to 0.67052	0.073874	0.527564
Area 4	55	1.73831	0.80740 to 2.66922	0.464321	3.443496

Benzo(b)fluoranthene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0040	0.02883	0.11000	0.04600 to 0.20000	0.22833	0.7400	0.19950
Area 1	26	0.0730	0.38750	0.52000	0.39000 to 0.70000	0.78417	2.2000	0.39667
Area 2	45	0.0060	0.06567	0.21000	0.08600 to 0.24000	0.33333	2.2000	0.26767
Area 3	51	0.0190	0.20000	0.40000	0.28000 to 0.50000	0.66000	2.9000	0.46000
Area 4	55	0.0360	0.20000	0.44000	0.22000 to 0.71000	1.18333	16.0000	0.98333

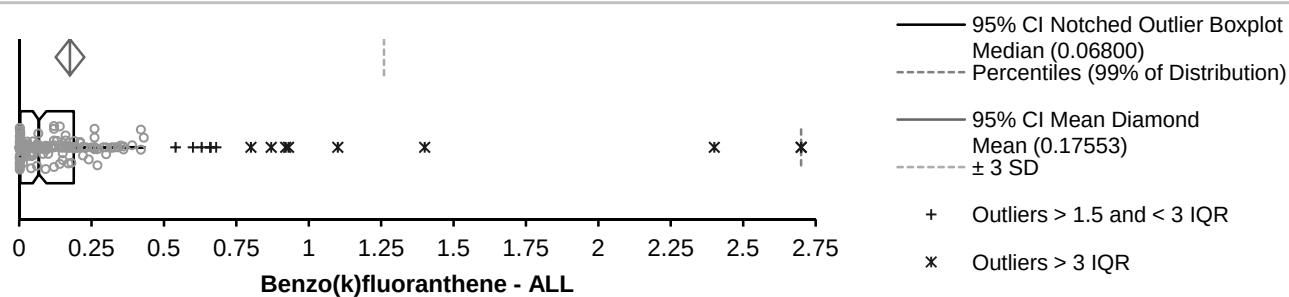
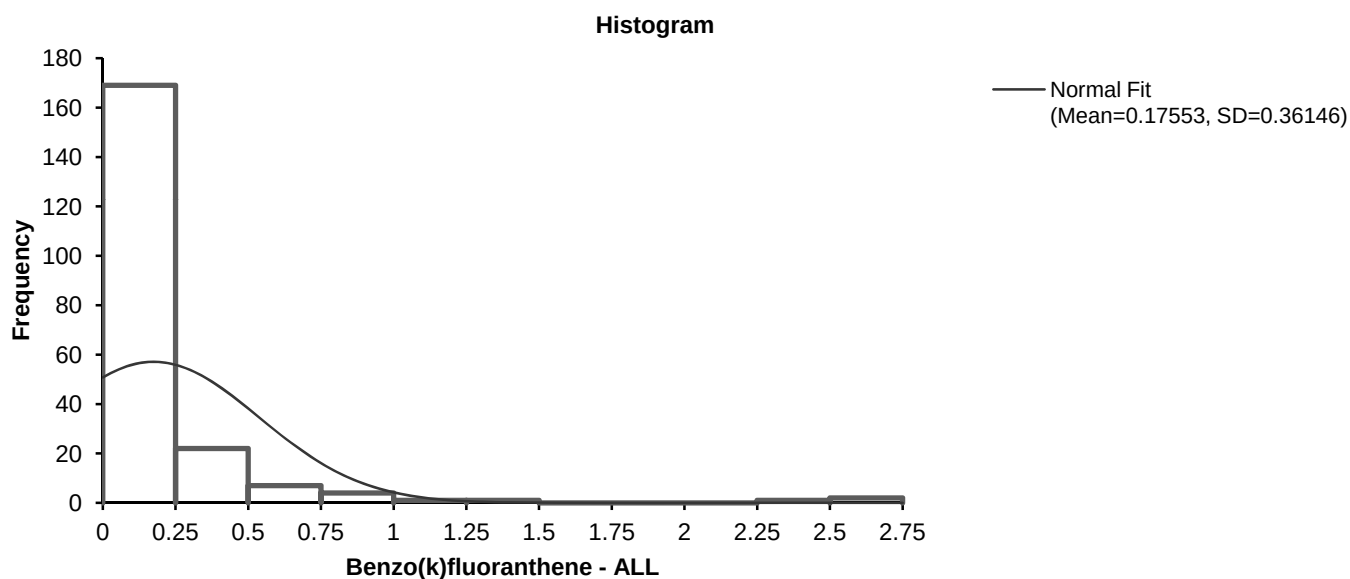
Test | Describe - Summary

Ft. Totten Soil

Benzo(k)fluoranthene - ALL

Performed by | AMEC

Date | 10 February 2012



n	207		
Mean	0.17553	Median	0.06800
95% CI	0.12600 to 0.22506	96.3% CI	0.04700 to 0.09400
SE	0.025123		
Variance	0.13065	Range	2.6982
SD	0.36146	IQR	0.18442
95% CI	0.32967 to 0.40008		
CV	205.9%	Percentile	
Skewness	4.94	0th	0.00180 (minimum)
Kurtosis	29.20	0.5th	0.00180
		25th	0.00392 (1st quartile)
		50th	0.06800 (median)
		75th	0.18833 (3rd quartile)
		99.5th	2.70000
Shapiro-Wilk W	0.47	100th	2.70000 (maximum)
p	<0.0001		

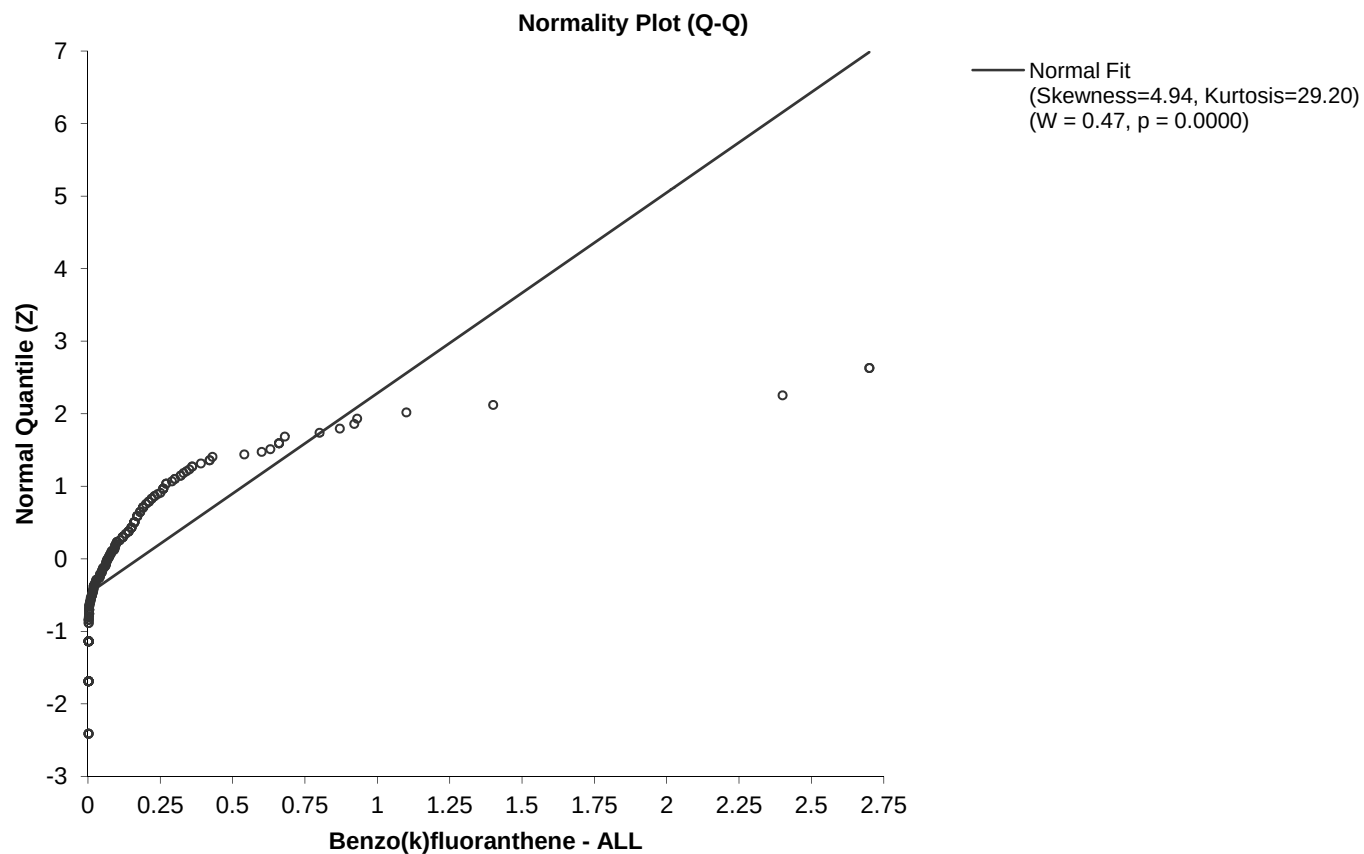
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(k)fluoranthene - ALL

Performed by | AMEC

Date | 10 February 2012

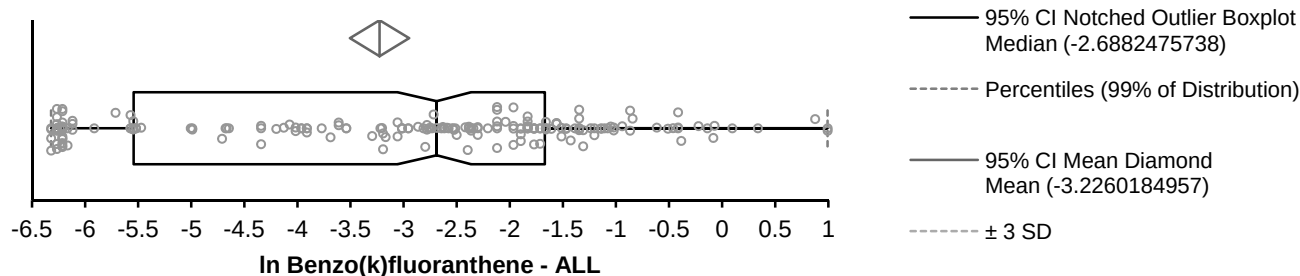
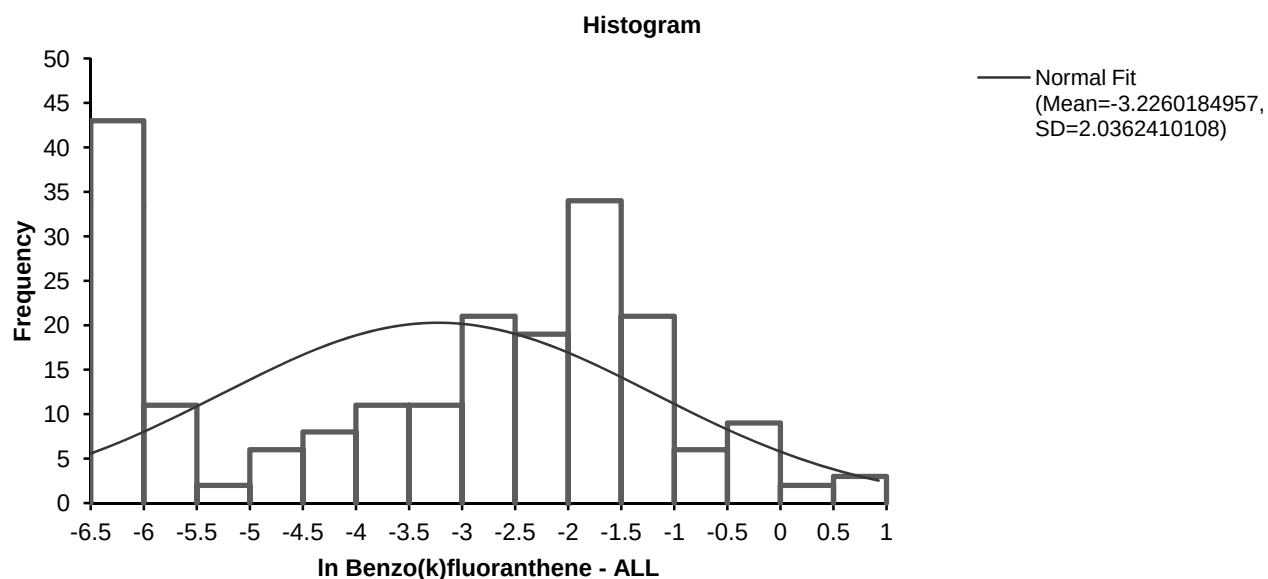


Test | Describe - Summary

Ft. Totten Soil
In Benzo(k)fluoranthene - ALL

Performed by | AMEC

Date | 10 February 2012



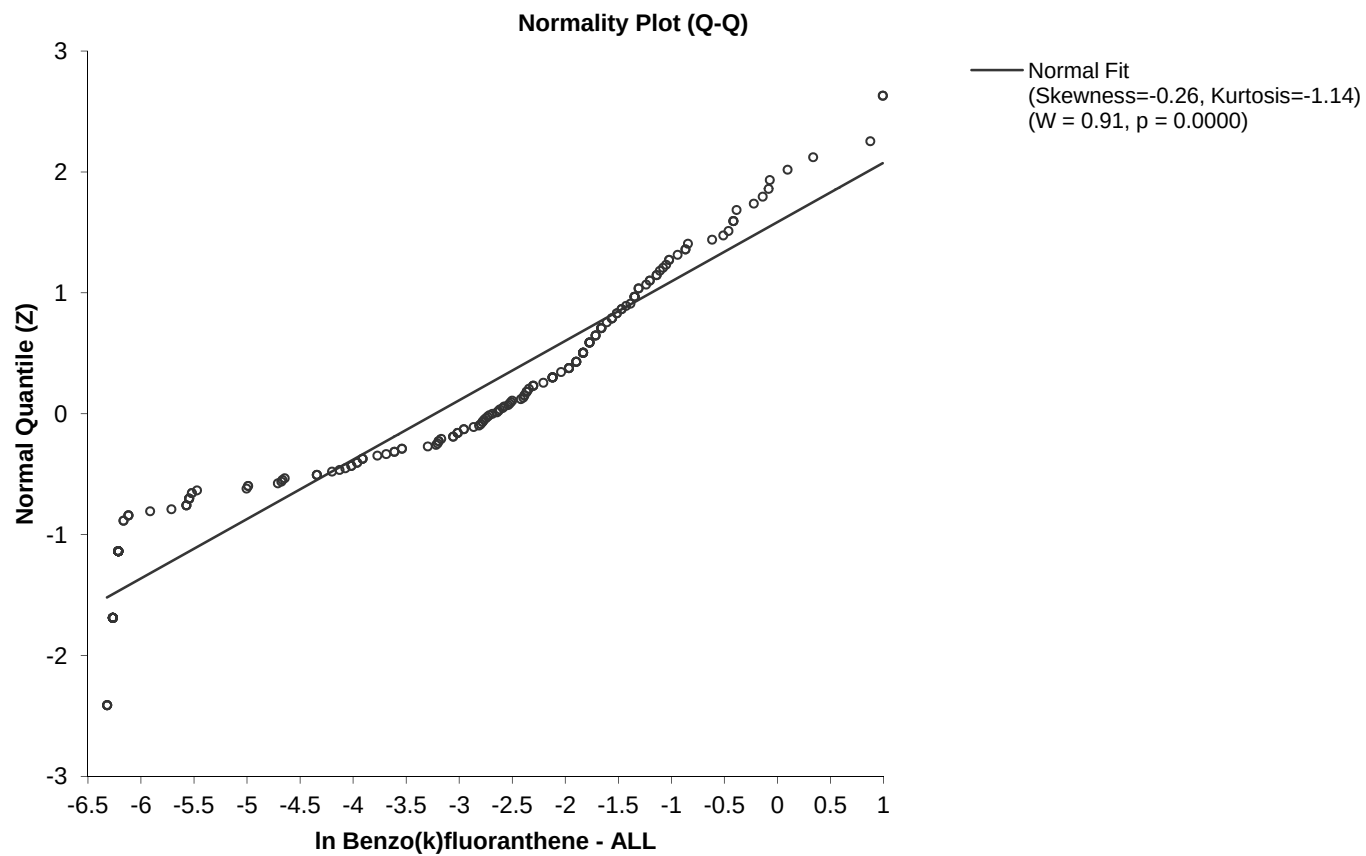
n	207		
Mean	-3.2260184957	Median	-2.6882475738
95% CI	-3.5050485789 to -2.94698841	96.3% CI	-3.0576076773 to -2.36446050
SE	0.141528534		
Variance	4.1462774542	Range	7.313220387
SD	2.0362410108	IQR	3.8728166808
95% CI	1.8571653461 to 2.25383572	Percentile	
CV	-63.1%	0th	-6.3199686141 (minimum)
Skewness	-0.26	0.5th	-6.3199686141
Kurtosis	-1.14	25th	-5.5425590912 (1st quartile)
Shapiro-Wilk W	0.91	50th	-2.6882475738 (median)
p	<0.0001	75th	-1.6697424104 (3rd quartile)
		99.5th	0.9932517730
		100th	0.9932517730 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
In Benzo(k)fluoranthene - ALL

Performed by AMEC

Date | 10 February 2012



Test | Describe - Comparative

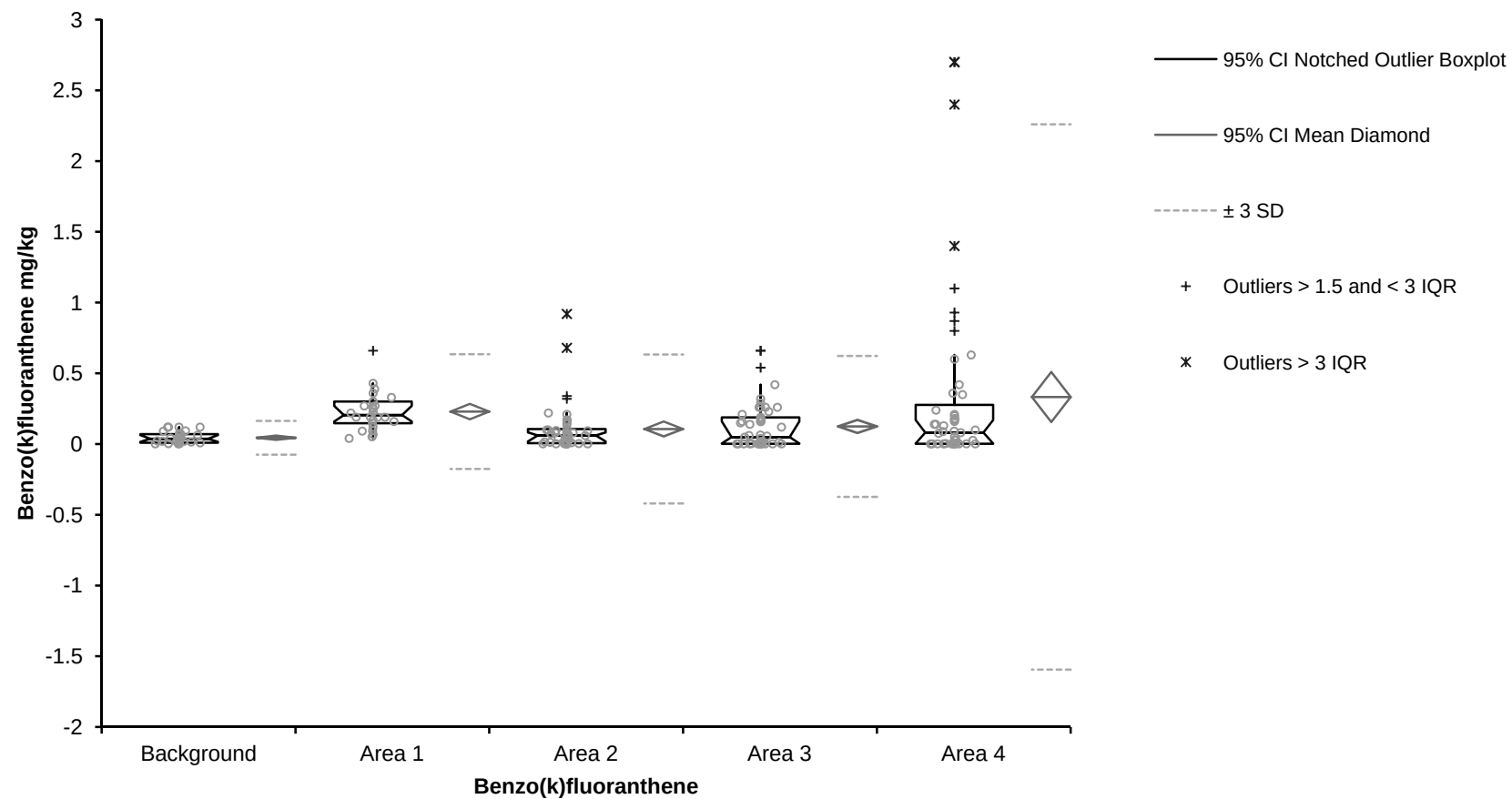
Ft. Totten Soil

Benzo(k)fluoranthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by | AMEC

Date |

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Benzo(k)fluoranthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Benzo(k)fluoranthene	n	Mean	95% CI	SE	SD
Background	31	0.04455	0.02993 to 0.05916	0.007157	0.039850
Area 1	26	0.22987	0.17529 to 0.28445	0.026502	0.135135
Area 2	44	0.10643	0.05313 to 0.15973	0.026431	0.175325
Area 3	51	0.12444	0.07778 to 0.17109	0.023230	0.165893
Area 4	53	0.33279	0.15576 to 0.50981	0.088219	0.642242

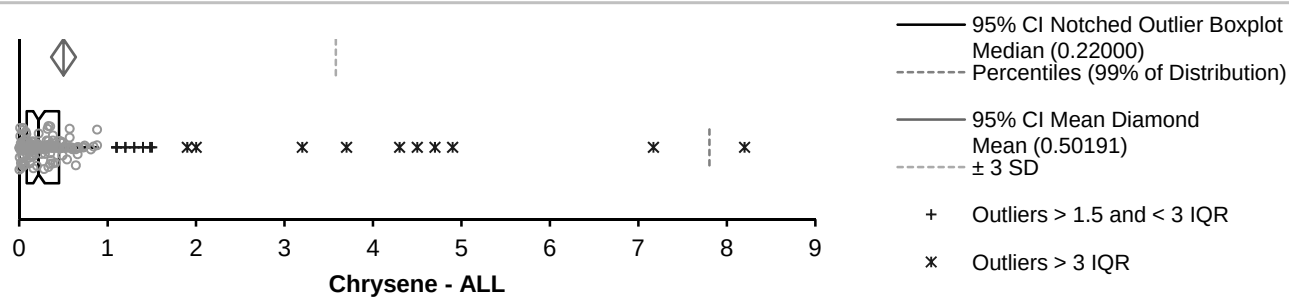
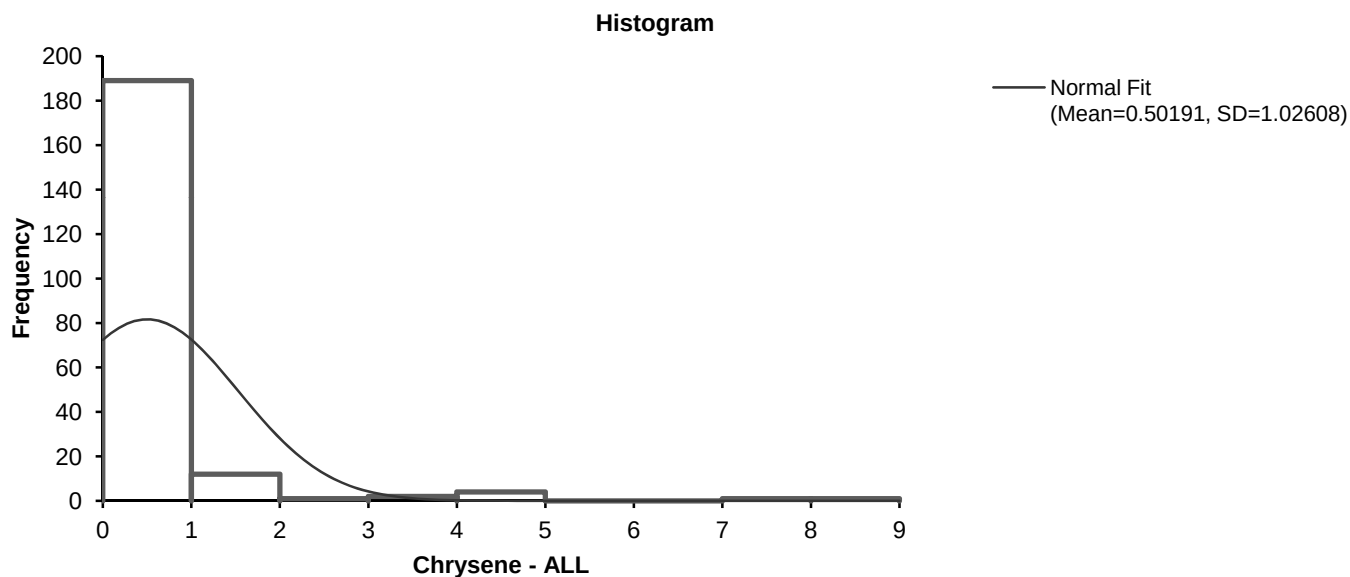
Benzo(k)fluoranthene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0020	0.00907	0.03700	0.01500 to 0.06300	0.07000	0.1200	0.06093
Area 1	26	0.0406	0.14750	0.20500	0.16000 to 0.27000	0.30000	0.6600	0.15250
Area 2	44	0.0018	0.00645	0.06100	0.01900 to 0.08200	0.10583	0.9200	0.09938
Area 3	51	0.0019	0.00200	0.04900	0.00390 to 0.16000	0.18833	0.6600	0.18633
Area 4	53	0.0018	0.00200	0.08100	0.00390 to 0.17000	0.27667	2.7000	0.27467

Test | **Describe - Summary**

Ft. Totten Soil
Chrysene - ALL

Performed by | AMEC

Date | 11 February 2012



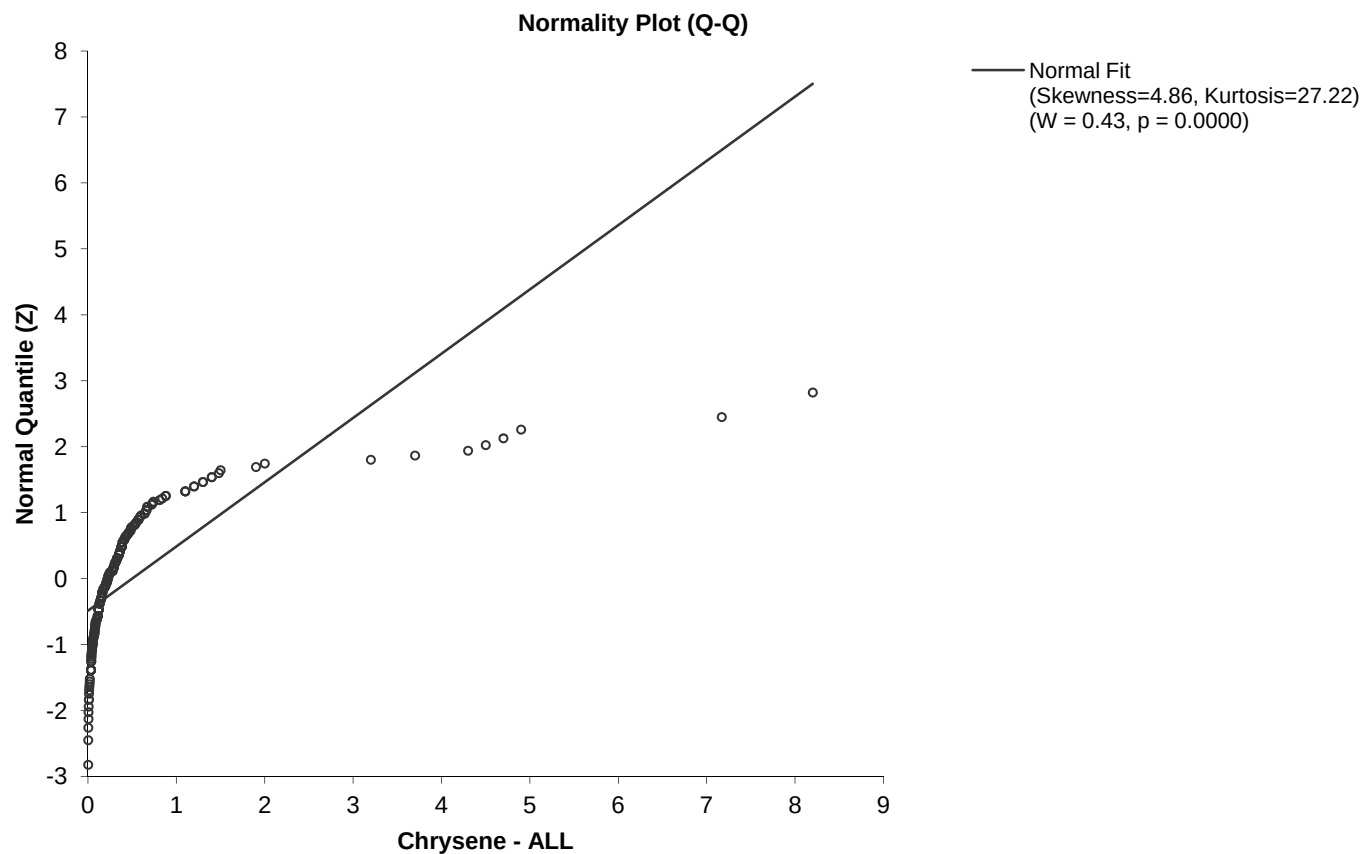
n	210		
Mean	0.50191	Median	0.22000
95% CI	0.36232 to 0.64149	95.5% CI	0.16000 to 0.29000
SE	0.070806		
		Range	8.1981
Variance	1.05285	IQR	0.36592
SD	1.02608		
95% CI	0.93644 to 1.13486	Percentile	
		0th	0.00190 (minimum)
CV	204.4%	0.5th	0.00209
		25th	0.08492 (1st quartile)
Skewness	4.86	50th	0.22000 (median)
Kurtosis	27.22	75th	0.45083 (3rd quartile)
		99.5th	7.80345
Shapiro-Wilk W	0.43	100th	8.20000 (maximum)
p	<0.0001		

Test | **Describe - Summary**

Ft. Totten Soil
Chrysene - ALL

Performed by AMEC

Date | 11 February 2012

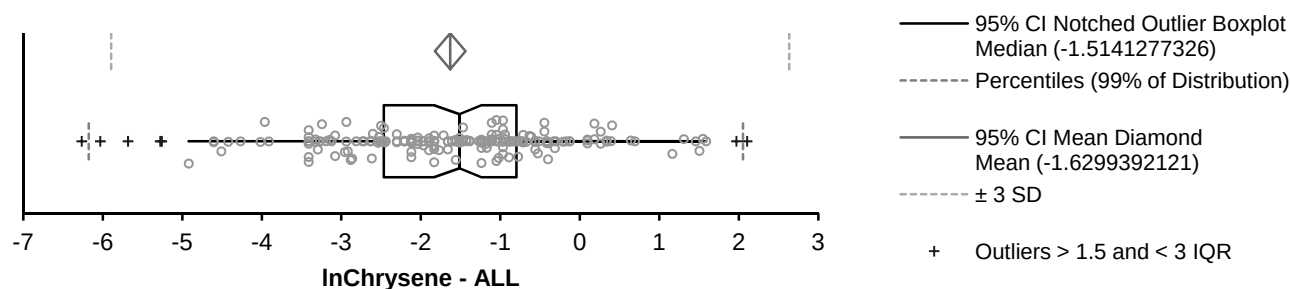
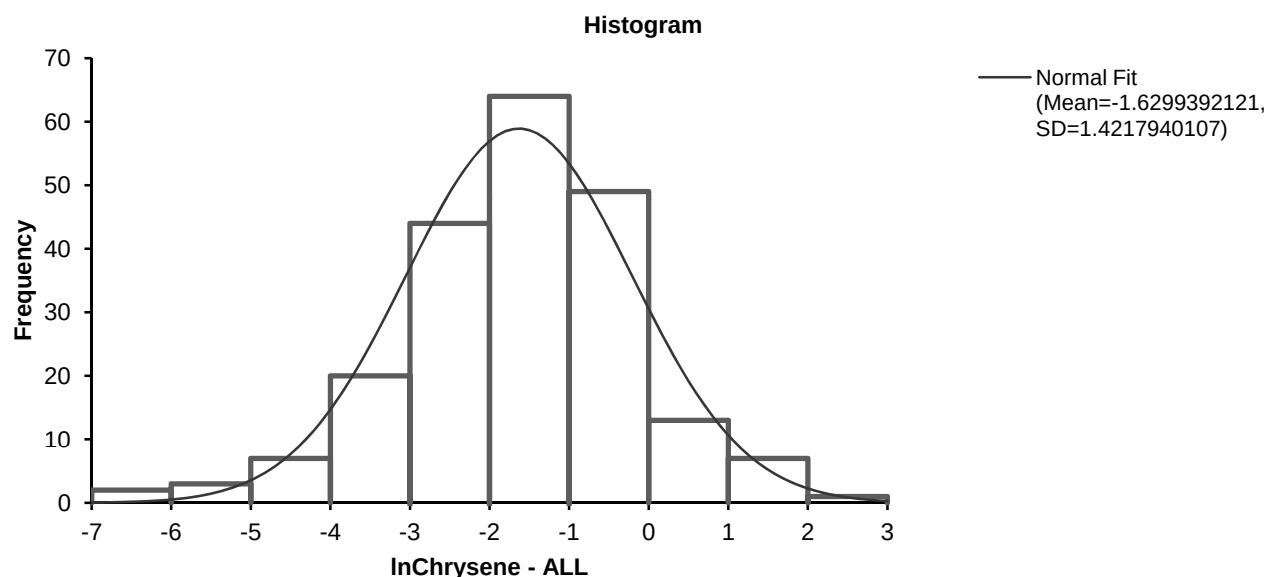


Test | **Describe - Summary**

Ft. Totten Soil
InChrysene - ALL

Performed by | AMEC

Date | 11 February 2012



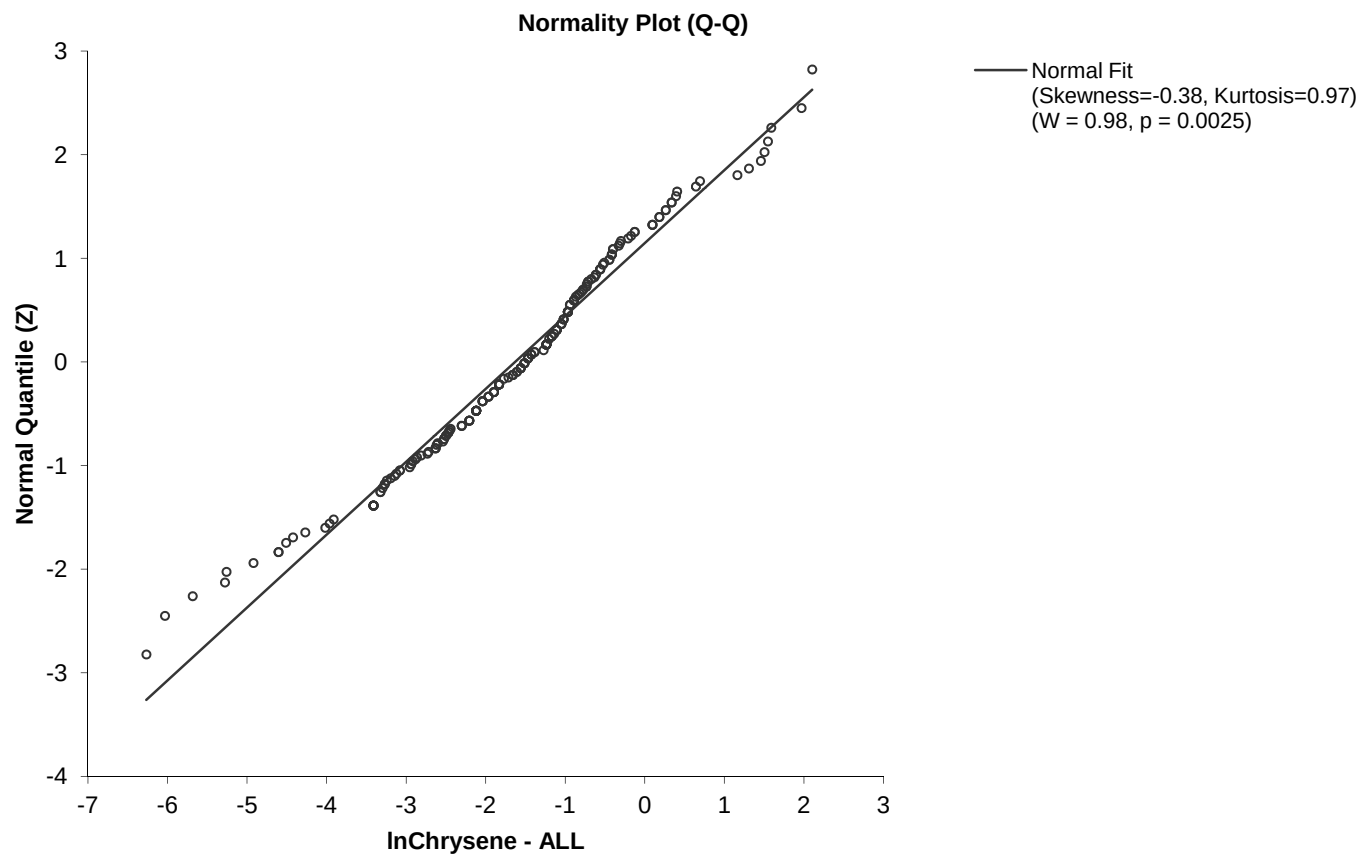
n	210		
Mean	-1.6299392121	Median	-1.5141277326
95% CI	-1.8233573599 to -1.43652106	95.5% CI	-1.8325814637 to -1.23787436
SE	0.0981131079		
Variance	2.0214982088	Range	8.370035547
SD	1.4217940107	IQR	1.6694141066
95% CI	1.2975756542 to 1.57251917	Percentile	
CV	-87.2%	0th	-6.2659013928 (minimum)
Skewness	-0.38	0.5th	-6.1759596751
Kurtosis	0.97	25th	-2.4660902273 (1st quartile)
Shapiro-Wilk W	0.98	50th	-1.5141277326 (median)
p	0.003	75th	-0.7966761207 (3rd quartile)
		99.5th	2.0524561819
		100th	2.1041341543 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InChrysene - ALL

Performed by AMEC

Date | 11 February 2012



Test | Describe - Comparative

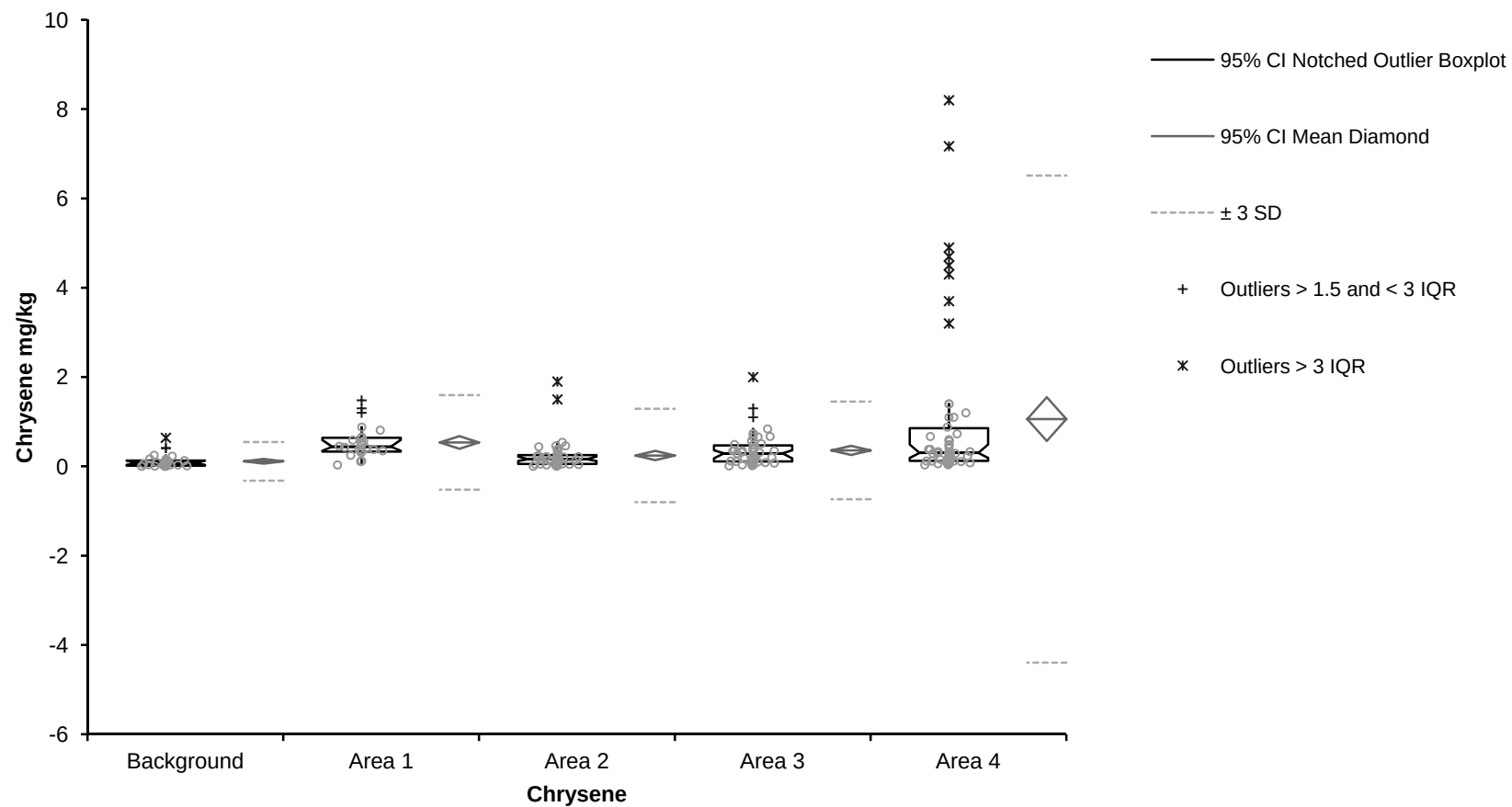
Ft. Totten Soil

Chrysene: Background, Area 1, Area 2, Area 3, Area 4

Performed by | AMEC

Date |

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Chrysene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Chrysene	n	Mean	95% CI	SE	SD
Background	31	0.11283	0.05983 to 0.16583	0.025952	0.144495
Area 1	26	0.53558	0.39297 to 0.67818	0.069242	0.353067
Area 2	45	0.24315	0.13844 to 0.34785	0.051954	0.348515
Area 3	51	0.35716	0.25475 to 0.45956	0.050983	0.364094
Area 4	55	1.05893	0.56760 to 1.55026	0.245066	1.817460

Chrysene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0019	0.01500	0.07200	0.03300 to 0.13000	0.13000	0.6400	0.11500
Area 1	26	0.0330	0.33000	0.44000	0.35000 to 0.59000	0.64167	1.4800	0.31167
Area 2	45	0.0034	0.05267	0.16000	0.12000 to 0.22000	0.25333	1.9000	0.20067
Area 3	51	0.0110	0.11167	0.29000	0.18000 to 0.36000	0.47000	2.0000	0.35833
Area 4	55	0.0330	0.12333	0.30000	0.19000 to 0.49000	0.85500	8.2000	0.73167

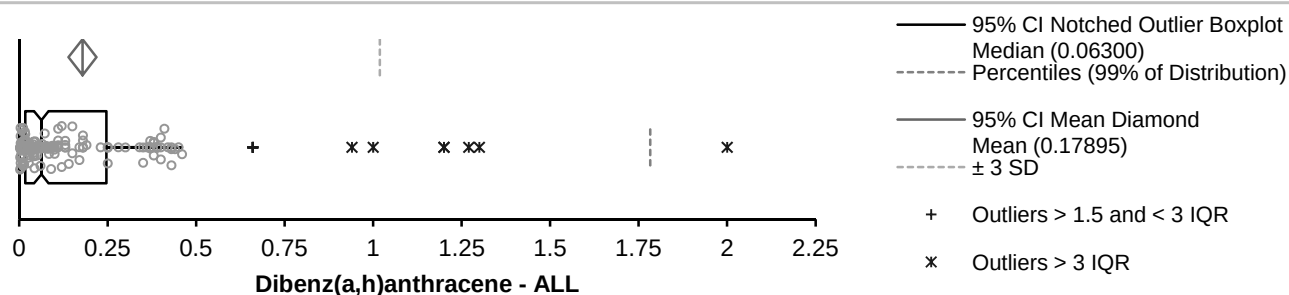
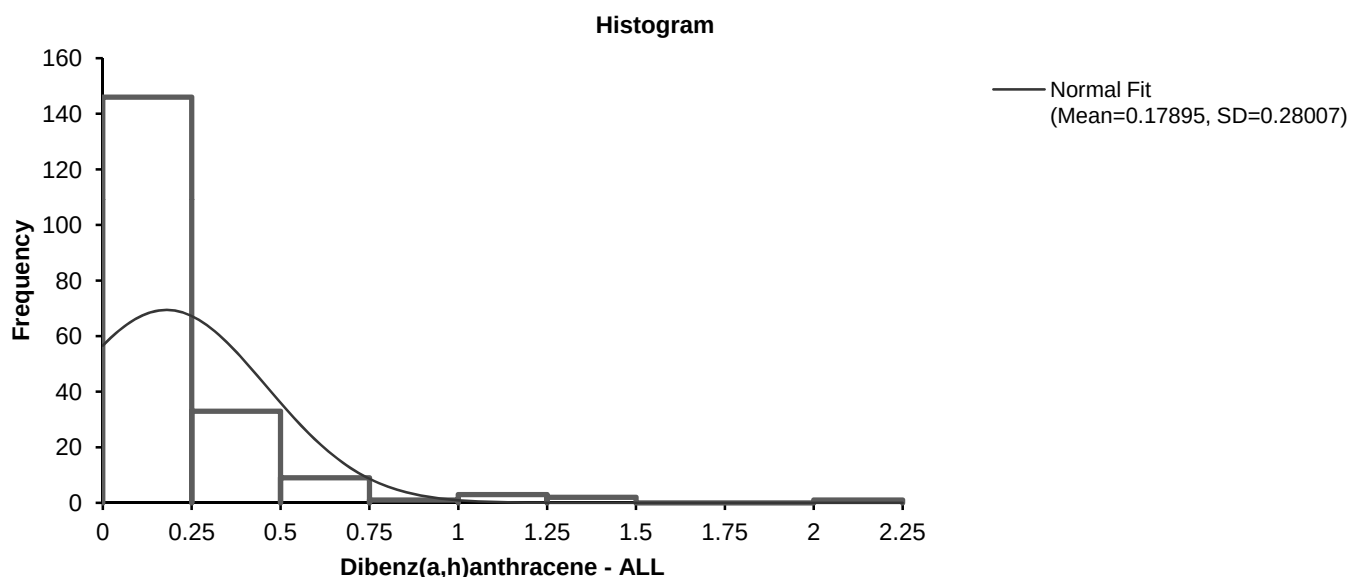
Test | **Describe - Summary**

Ft. Totten - Soil

Dibenz(a,h)anthracene - ALL

Performed by | AMEC

Date | 10 February 2012



n	195		
Mean	0.17895	Median	0.06300
95% CI	0.13939 to 0.21851	95.5% CI	0.04200 to 0.08300
SE	0.020056		
		Range	1.9976
Variance	0.07844	IQR	0.22950
SD	0.28007		
95% CI	0.25476 to 0.31101	Percentile	
		0th	0.00240 (minimum)
CV	156.5%	0.5th	0.00240
		25th	0.01717 (1st quartile)
Skewness	3.02	50th	0.06300 (median)
Kurtosis	12.13	75th	0.24667 (3rd quartile)
		99.5th	1.78300
Shapiro-Wilk W	0.64	100th	2.00000 (maximum)
p	<0.0001		

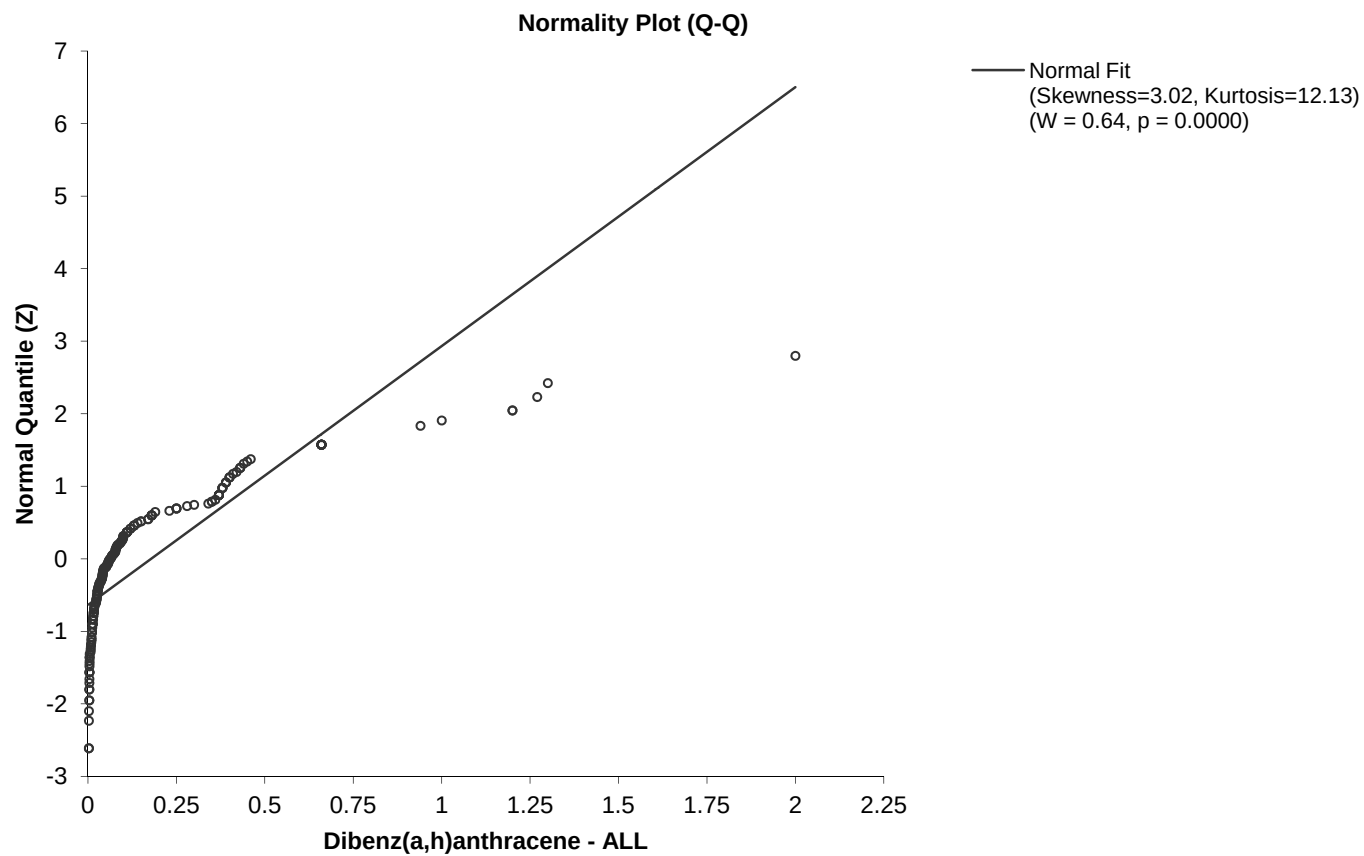
Test | **Describe - Summary**

Ft. Totten - Soil

Dibenz(a,h)anthracene - ALL

Performed by AMEC

Date | 10 February 2012

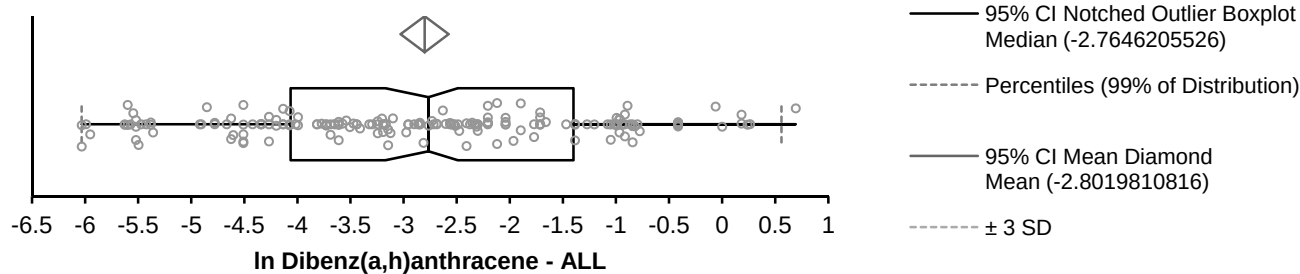
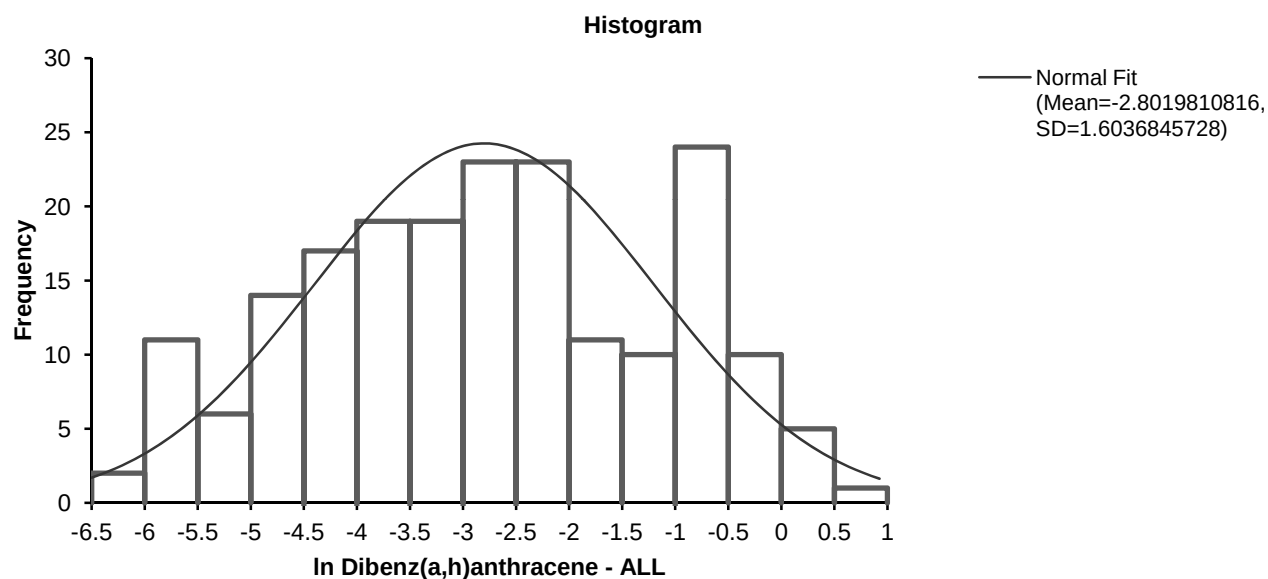


Test | Describe - Summary

Ft. Totten Soil
In Dibenz(a,h)anthracene - ALL

Performed by | AMEC

Date | 10 February 2012



n	195		
Mean	-2.8019810816	Median	-2.7646205526
95% CI	-3.0284806769 to -2.57548149	95.5% CI	-3.1700856607 to -2.48891467
SE	0.1148422376		
Variance	2.5718042089	Range	6.725433722
SD	1.6036845728	IQR	2.6648242367
95% CI	1.4587502309 to 1.78084679	Percentile	
CV	-57.2%	0th	-6.0322865416 (minimum)
Skewness	-0.07	0.5th	-6.0322865416
Kurtosis	-0.82	25th	-4.0650155326 (1st quartile)
Shapiro-Wilk W	0.98	50th	-2.7646205526 (median)
p	0.003	75th	-1.4001912959 (3rd quartile)
		99.5th	0.5596044766
		100th	0.6931471806 (maximum)

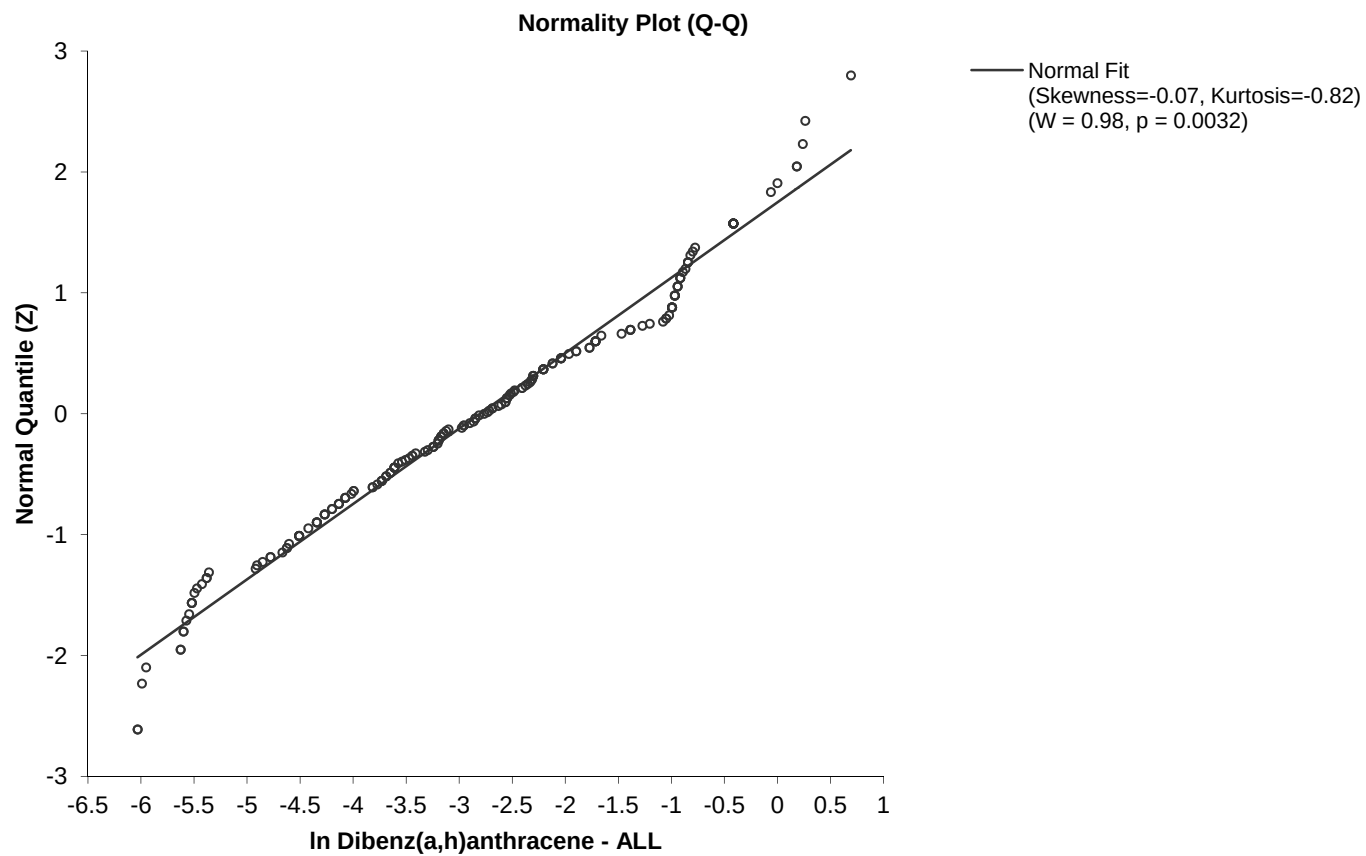
Test | **Describe - Summary**

Ft. Totten Soil

ln Dibenz(a,h)anthracene - ALL

Performed by AMEC

Date | 10 February 2012



Test | Describe - Comparative

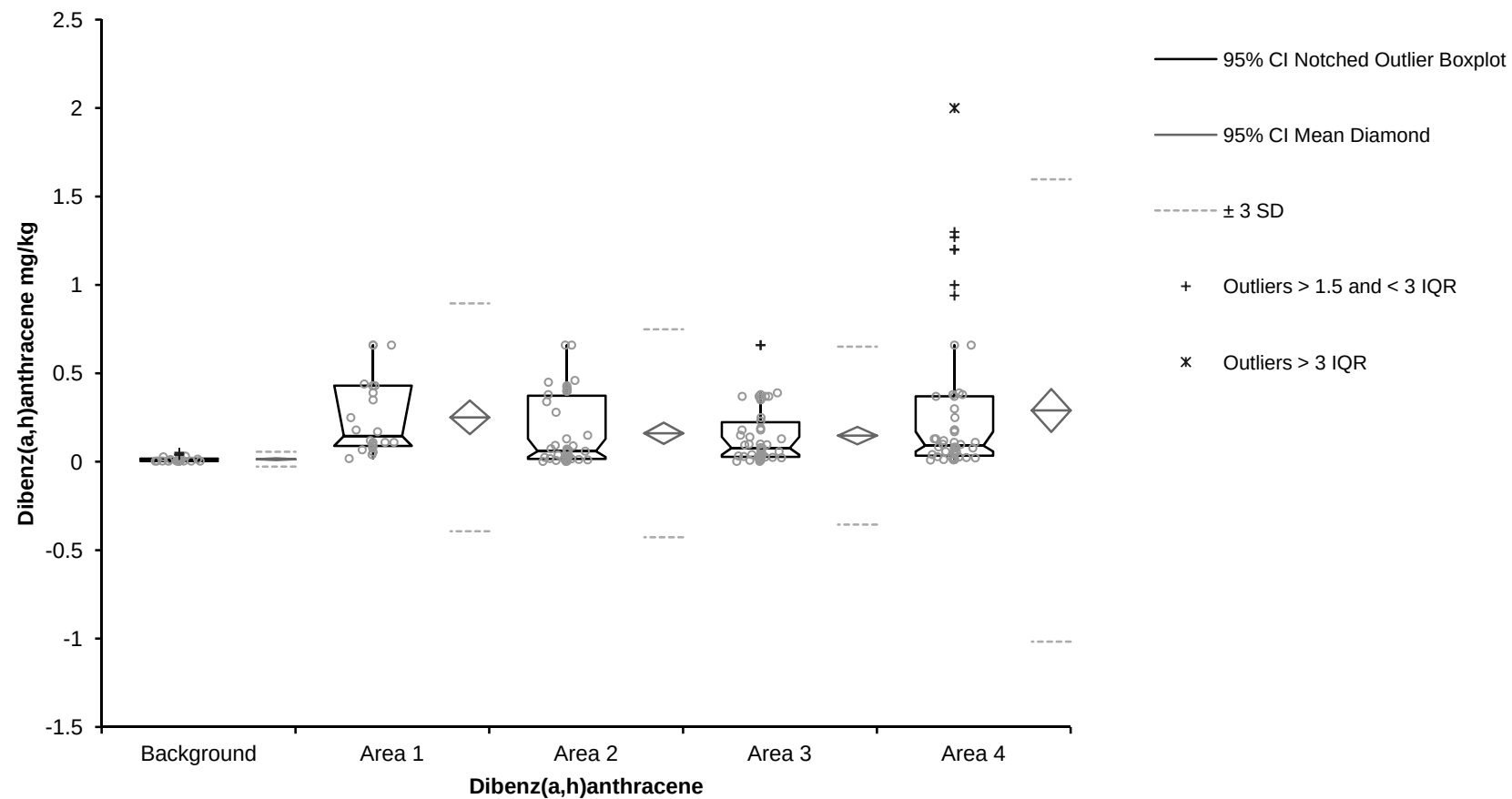
Ft. Totten Soil

Dibenz(a,h)anthracene: Background, Area 1, Area 2, Area 3, Area 4

Performed by | AMEC

Date |

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Dibenz(a,h)anthracene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Dibenz(a,h)anthracene	n	Mean	95% CI	SE	SD
Background	31	0.01428	0.00918 to 0.01939	0.002500	0.013919
Area 1	22	0.25091	0.15571 to 0.34611	0.045776	0.214709
Area 2	43	0.16079	0.10046 to 0.22111	0.029893	0.196019
Area 3	47	0.14774	0.09852 to 0.19697	0.024455	0.167655
Area 4	52	0.28990	0.16860 to 0.41121	0.060423	0.435716

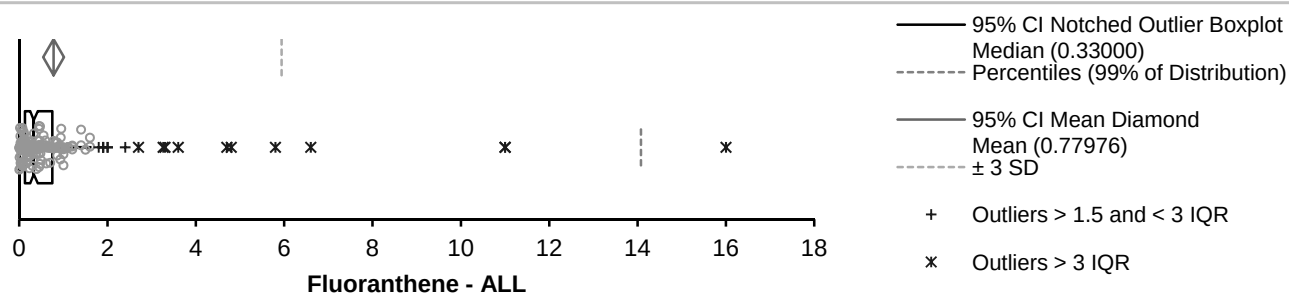
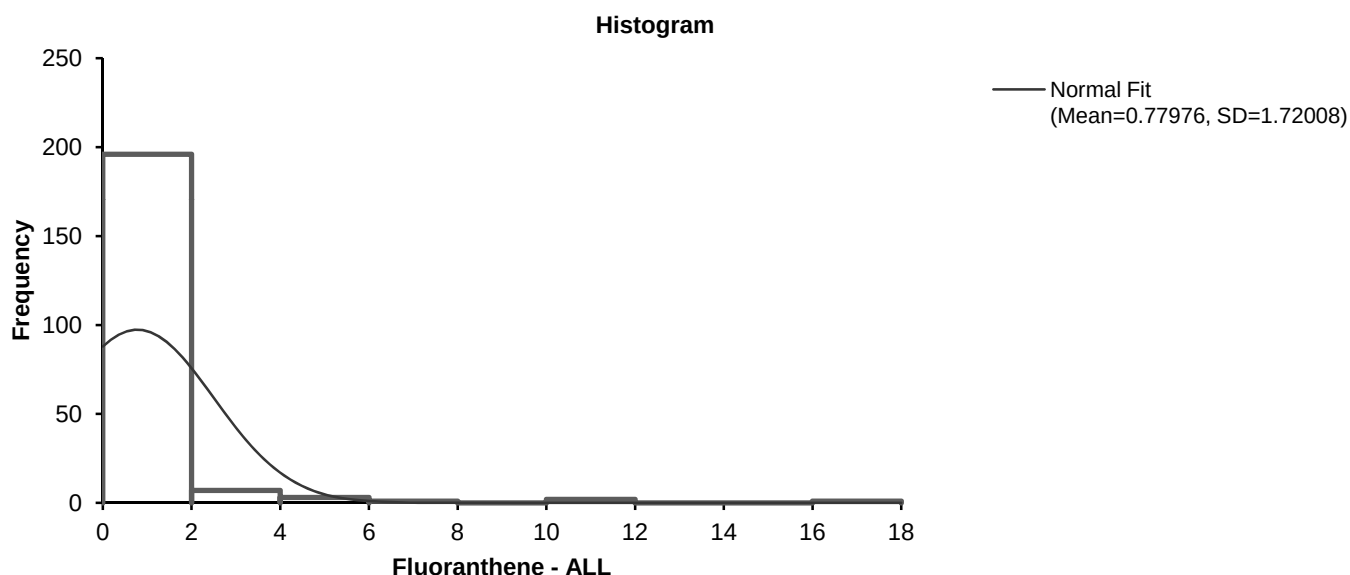
Dibenz(a,h)anthracene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0036	0.00402	0.00740	0.00420 to 0.01500	0.01767	0.0520	0.01365
Area 1	22	0.0184	0.08900	0.14500	0.09000 to 0.43000	0.43000	0.6600	0.34100
Area 2	43	0.0024	0.01617	0.06000	0.02700 to 0.13000	0.37333	0.6600	0.35717
Area 3	47	0.0025	0.02750	0.07700	0.03900 to 0.14000	0.22333	0.6600	0.19583
Area 4	52	0.0100	0.03400	0.09100	0.05800 to 0.17000	0.37000	2.0000	0.33600

Test | **Describe - Summary**

Ft. Totten Soil
Fluoranthene - ALL

Performed by | AMEC

Date | 10 February 2012



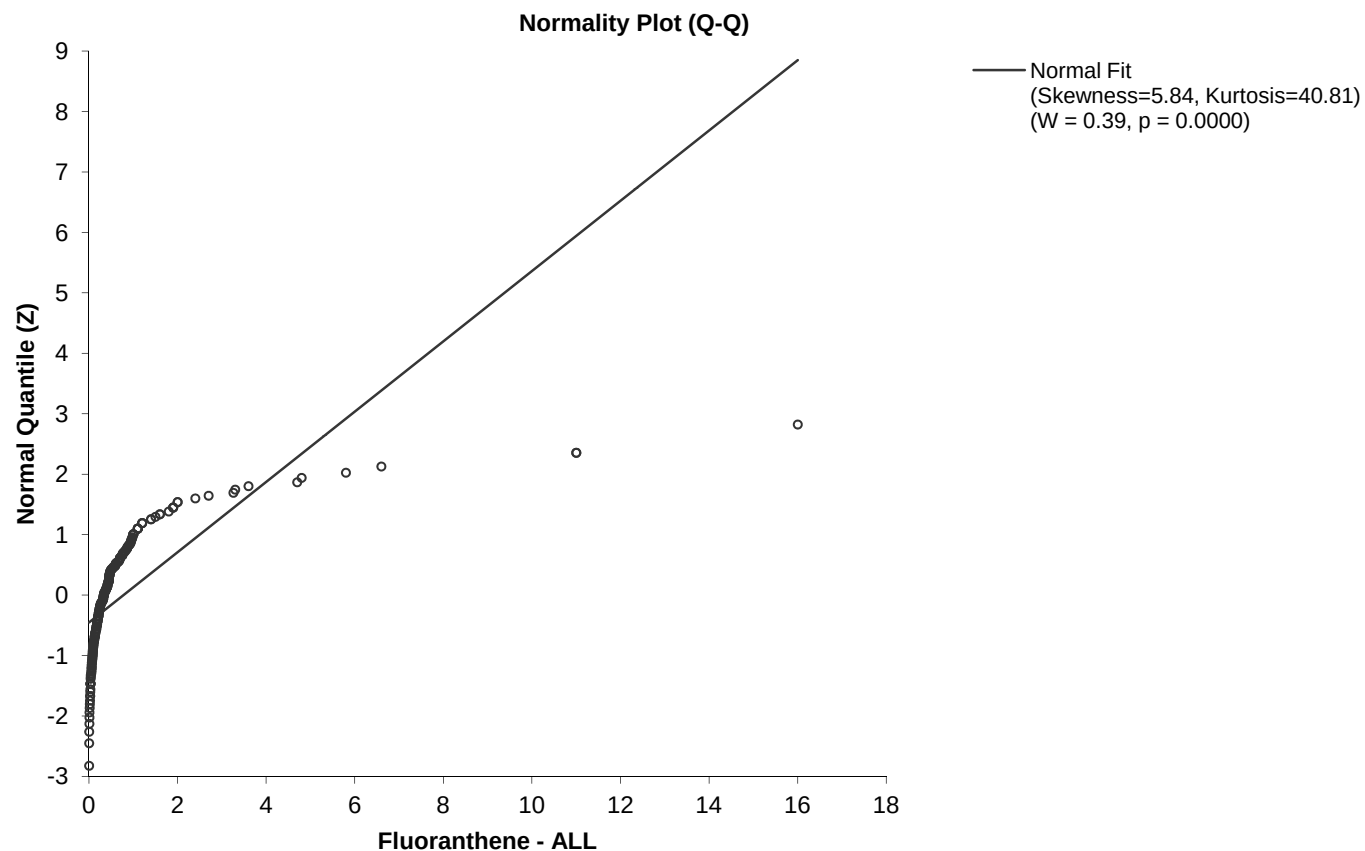
n	210		
Mean	0.77976	Median	0.33000
95% CI	0.54576 to 1.01375	95.5% CI	0.25000 to 0.42000
SE	0.118697		
Variance	2.95869	Range	15.9974
SD	1.72008	IQR	0.62083
95% CI	1.56981 to 1.90243	Percentile	
CV	220.6%	0th	0.00260 (minimum)
Skewness	5.84	0.5th	0.00283
Kurtosis	40.81	25th	0.13000 (1st quartile)
Shapiro-Wilk W	0.39	50th	0.33000 (median)
p	<0.0001	75th	0.75083 (3rd quartile)
		99.5th	14.07500
		100th	16.00000 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
Fluoranthene - ALL

Performed by AMEC

Date | 10 February 2012

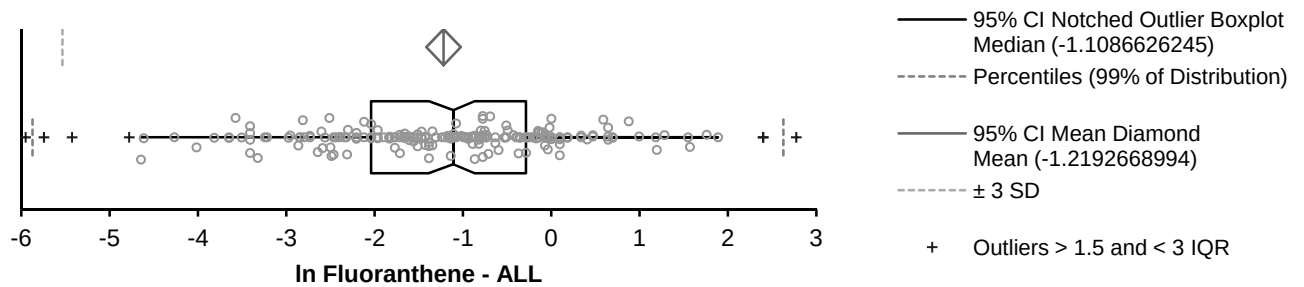
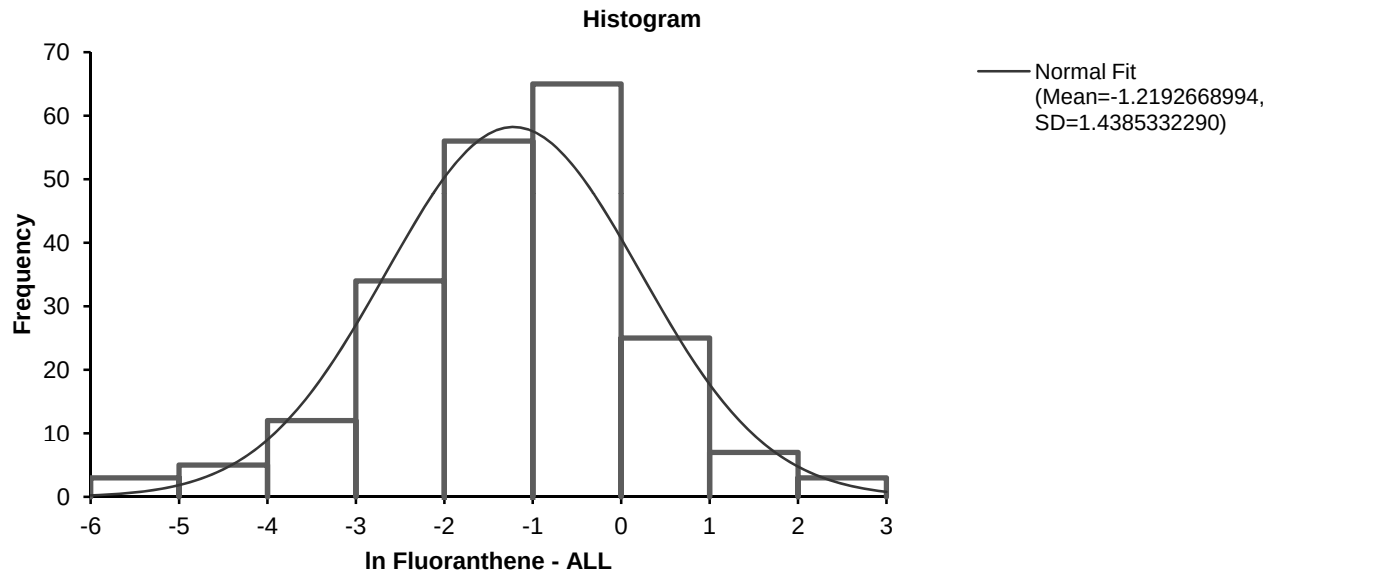


Test **Describe - Summary**

Ft. TottenSoil
In Fluoranthene - ALL

Performed by AMEC

Date 10 February 2012



n	210		
Mean	-1.2192668994	Median	-1.1086626245
95% CI	-1.4149622185 to -1.02357158	95.5% CI	-1.3862943611 to -0.86750057
SE	0.0992682237		
Variance	2.0693778508	Range	8.724832556
SD	1.4385332290	IQR	1.7536425250
95% CI	1.3128524115 to 1.59103292	Percentile	
CV	-118.0%	0th	-5.9522438340 (minimum)
Skewness	-0.37	0.5th	-5.8723026785
Kurtosis	0.93	25th	-2.0402208285 (1st quartile)
Shapiro-Wilk W	0.98	50th	-1.1086626245 (median)
p	0.013	75th	-0.2865783036 (3rd quartile)
		99.5th	2.6283317442
		100th	2.7725887222 (maximum)

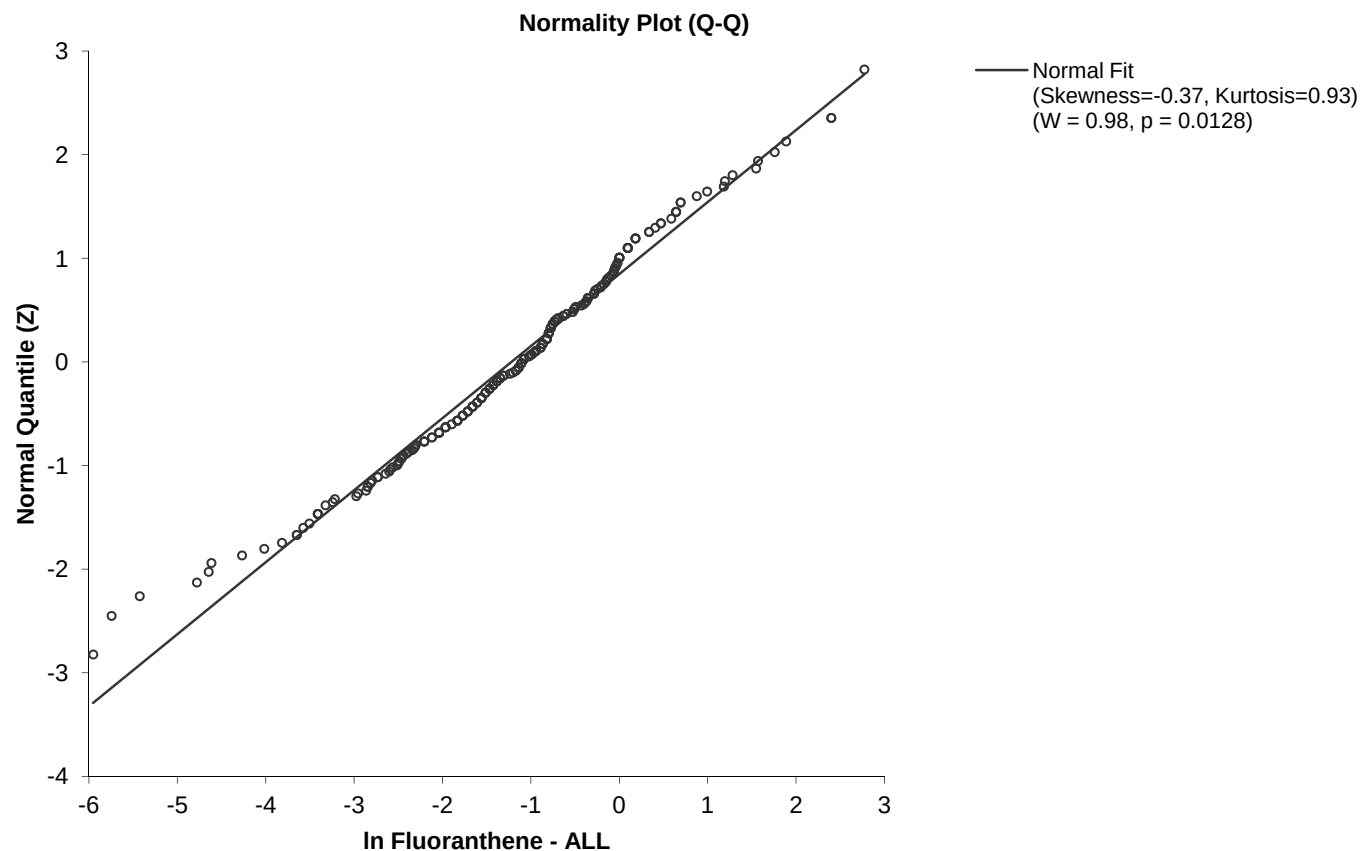
Test | **Describe - Summary**

Ft. TottenSoil

In Fluoranthene - ALL

Performed by | AMEC

Date | 10 February 2012



Test **Describe - Comparative**

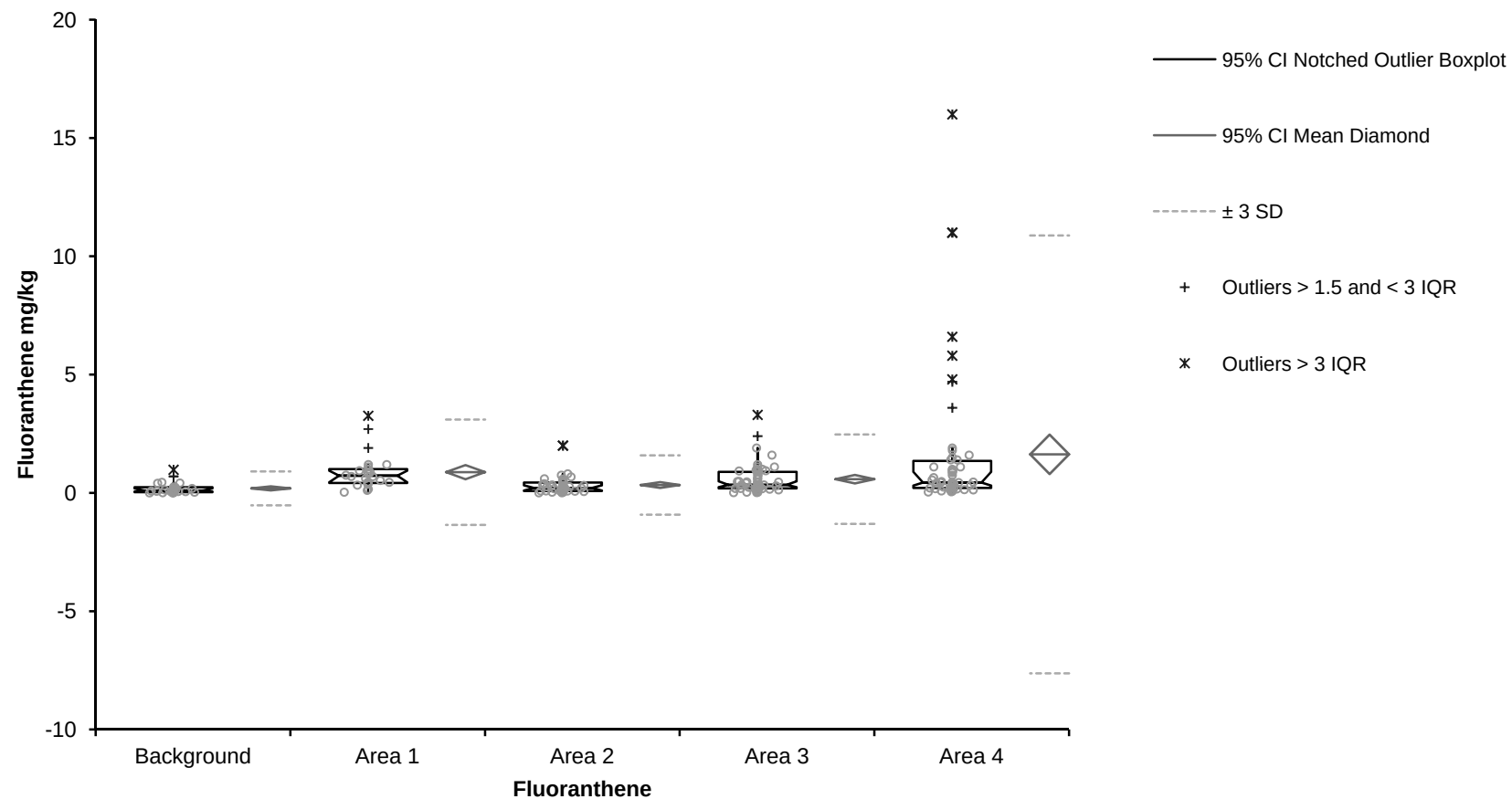
Ft. Totten Soil

Fluoranthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Fluoranthene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Fluoranthene	n	Mean	95% CI	SE	SD
Background	31	0.19143	0.10404 to 0.27881	0.042788	0.238234
Area 1	26	0.87350	0.57385 to 1.17315	0.145492	0.741867
Area 2	45	0.33280	0.20700 to 0.45859	0.062418	0.418714
Area 3	51	0.58065	0.40341 to 0.75789	0.088242	0.630177
Area 4	55	1.62809	0.79436 to 2.46182	0.415851	3.084032

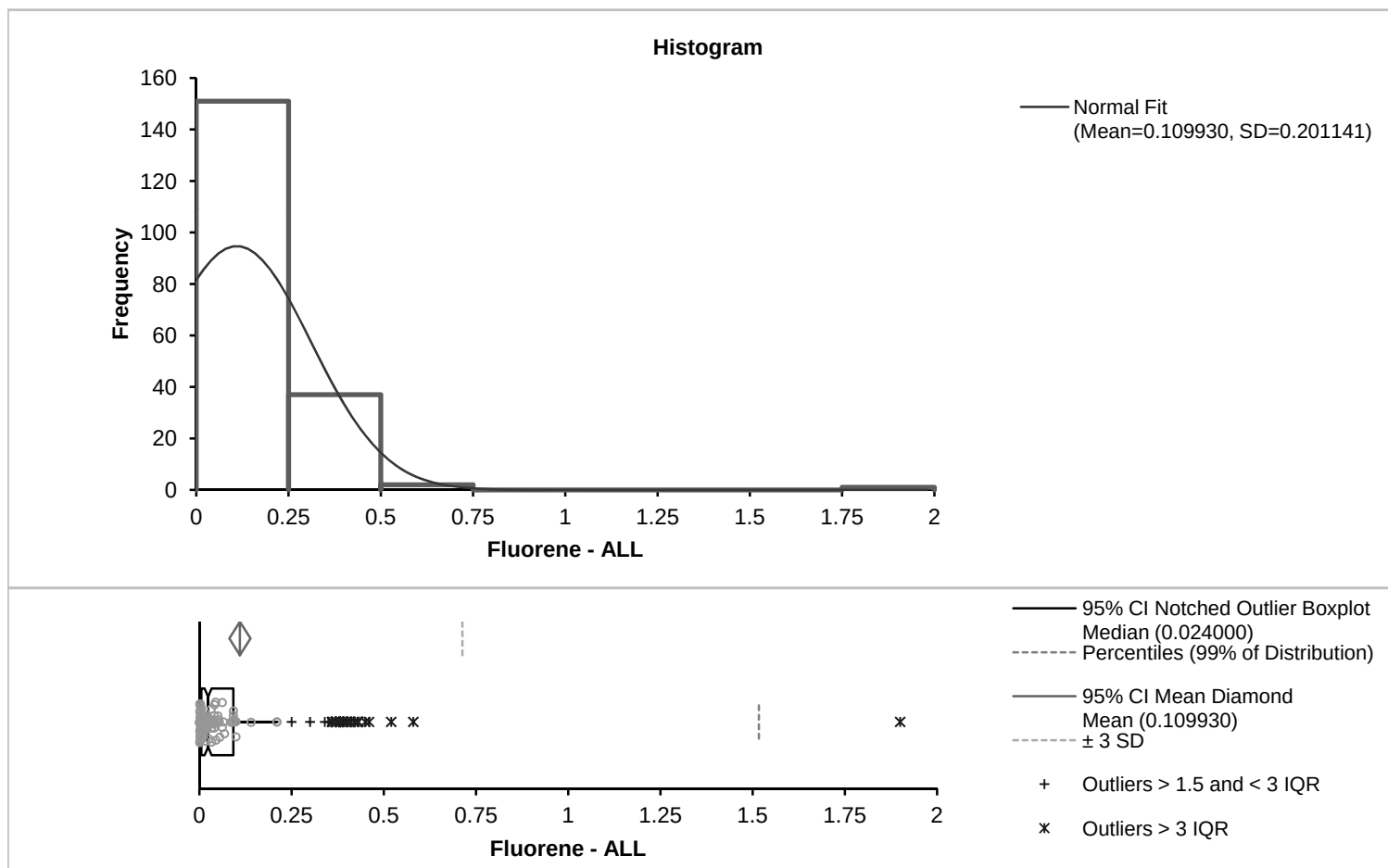
Fluoranthene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0026	0.03100	0.09600	0.05700 to 0.19000	0.24000	0.9800	0.20900
Area 1	26	0.0330	0.41917	0.72500	0.45000 to 0.94000	1.00833	3.2600	0.58917
Area 2	45	0.0044	0.08100	0.21000	0.09900 to 0.32000	0.44000	2.0000	0.35900
Area 3	51	0.0140	0.19000	0.34000	0.24000 to 0.49000	0.88833	3.3000	0.69833
Area 4	55	0.0400	0.21167	0.44000	0.31000 to 0.89000	1.35000	16.0000	1.13833

Test | Describe - Summary

Ft. Totten Soil
Fluorene - ALL

Performed by AMEC

Date | 11 February 2012



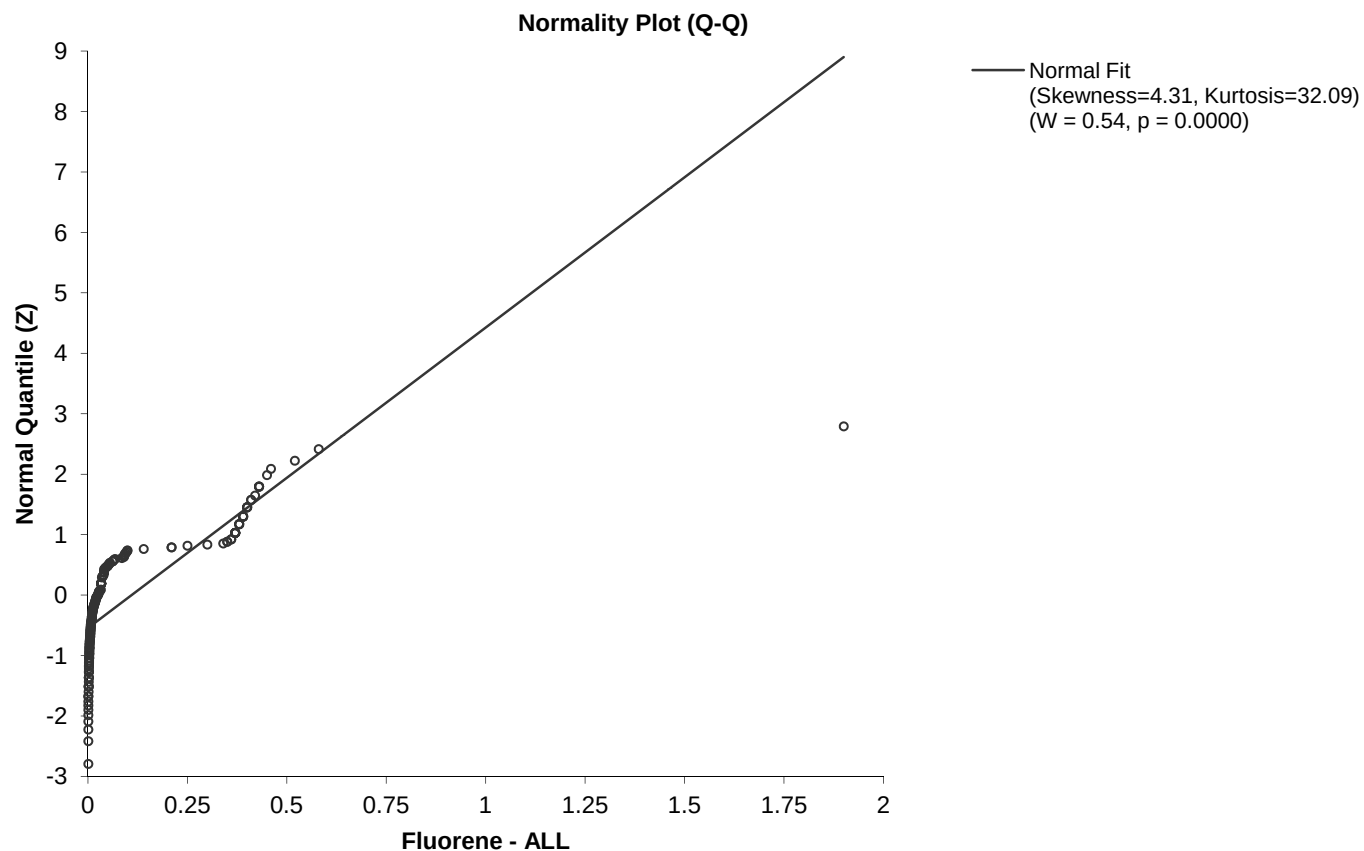
n	191		
Mean	0.109930	Median	0.024000
95% CI	0.081221 to 0.138638	95.8% CI	0.014000 to 0.033000
SE	0.0145540		
Variance	0.040458	Range	1.89928
SD	0.201141	IQR	0.086583
95% CI	0.182790 to 0.223620	Percentile	
CV	183.0%	0th	0.000720 (minimum)
Skewness	4.31	0.5th	0.000726
Kurtosis	32.09	25th	0.005417 (1st quartile)
Shapiro-Wilk W	0.54	50th	0.024000 (median)
p	<0.0001	75th	0.092000 (3rd quartile)
		99.5th	1.517200
		100th	1.900000 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
Fluorene - ALL

Performed by AMEC

Date | 11 February 2012

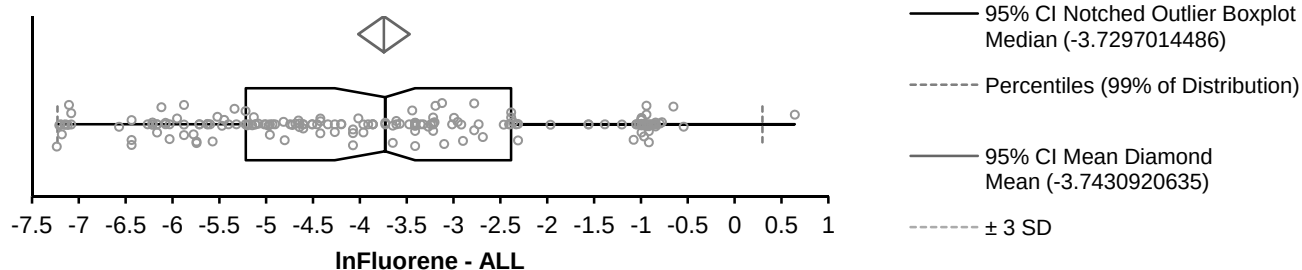
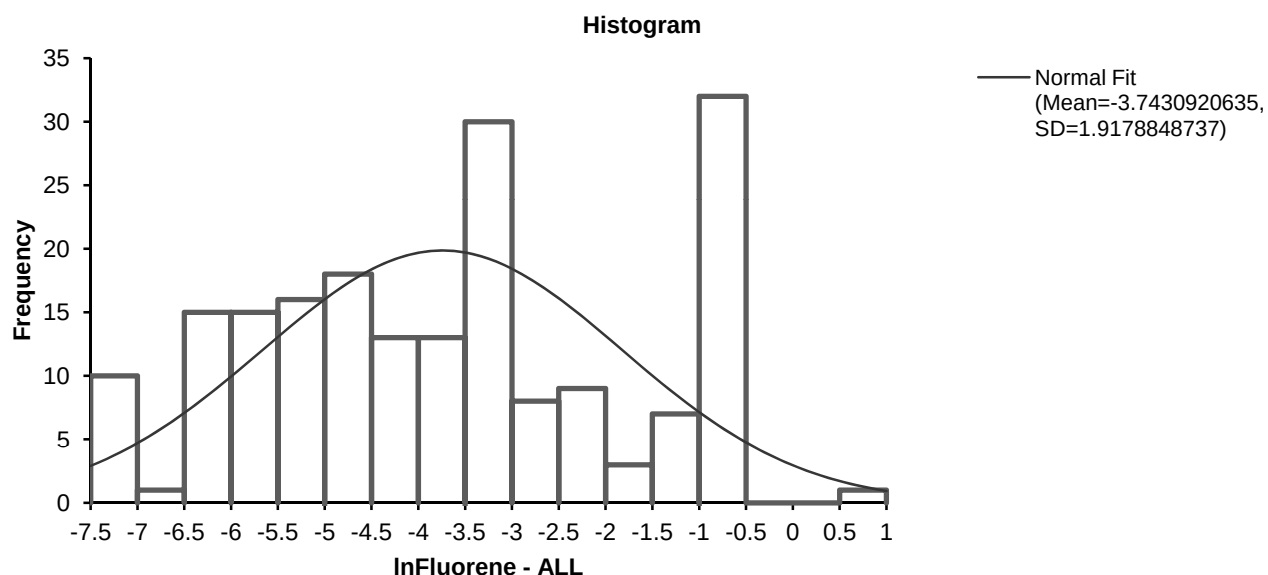


Test | **Describe - Summary**

Ft. Totten Soil
InFluorene - ALL

Performed by | AMEC

Date | 11 February 2012



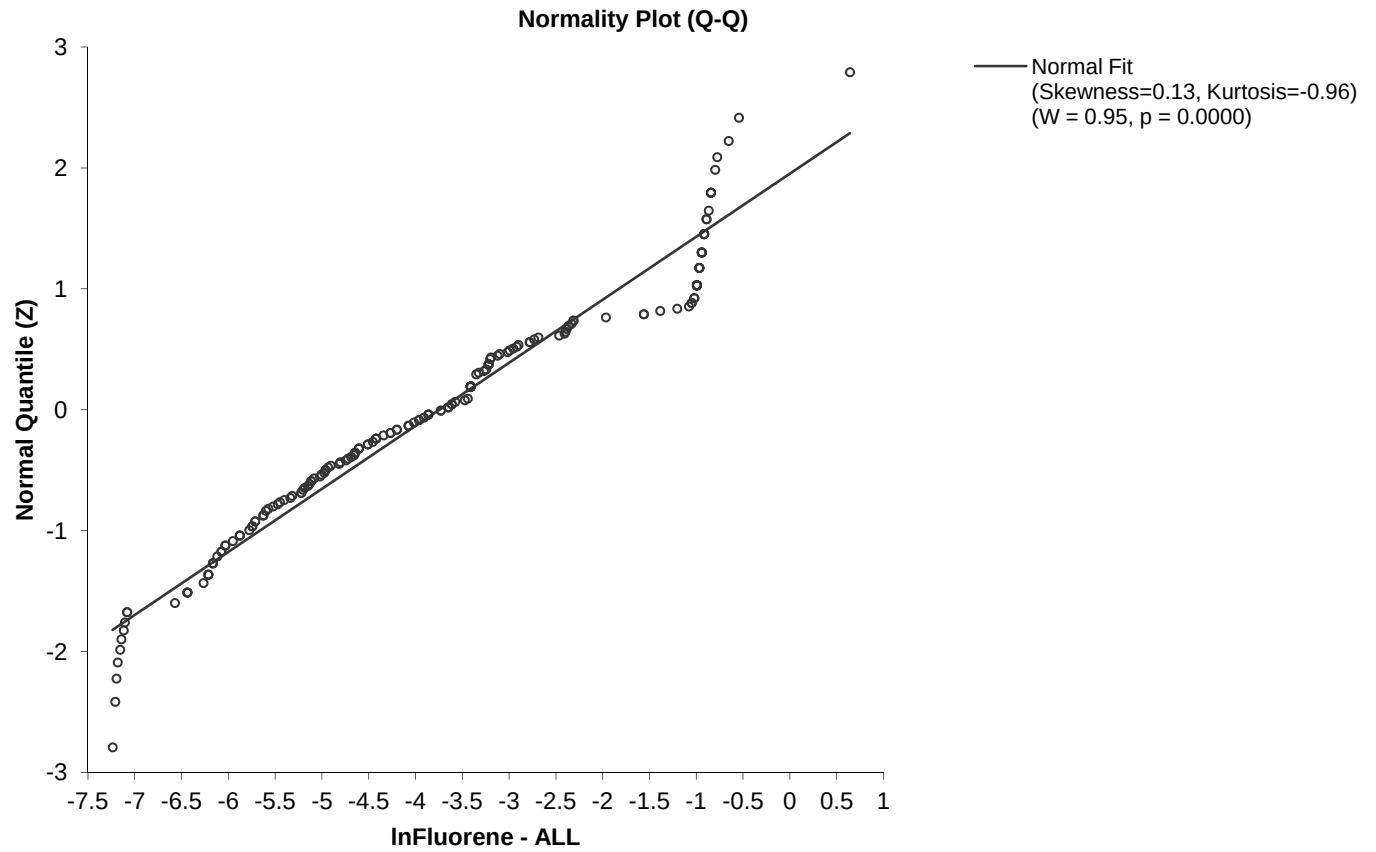
n	191		
Mean	-3.7430920635	Median	-3.7297014486
95% CI	-4.0168262417 to -3.46935789	95.8% CI	-4.2686979494 to -3.41124772
SE	0.1387732790		
Variance	3.6782823888	Range	7.878113232
SD	1.9178848737	IQR	2.8323314337
95% CI	1.7429087045 to 2.13222112	Percentile	
CV	-51.2%	0th	-7.2362593460 (minimum)
Skewness	0.13	0.5th	-7.2283136434
Kurtosis	-0.96	25th	-5.2182981356 (1st quartile)
Shapiro-Wilk W	0.95	50th	-3.7297014486 (median)
p	<0.0001	75th	-2.3859667019 (3rd quartile)
		99.5th	0.2977453783
		100th	0.6418538862 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InFluorene - ALL

Performed by AMEC

Date | 11 February 2012



Test **Describe - Comparative**

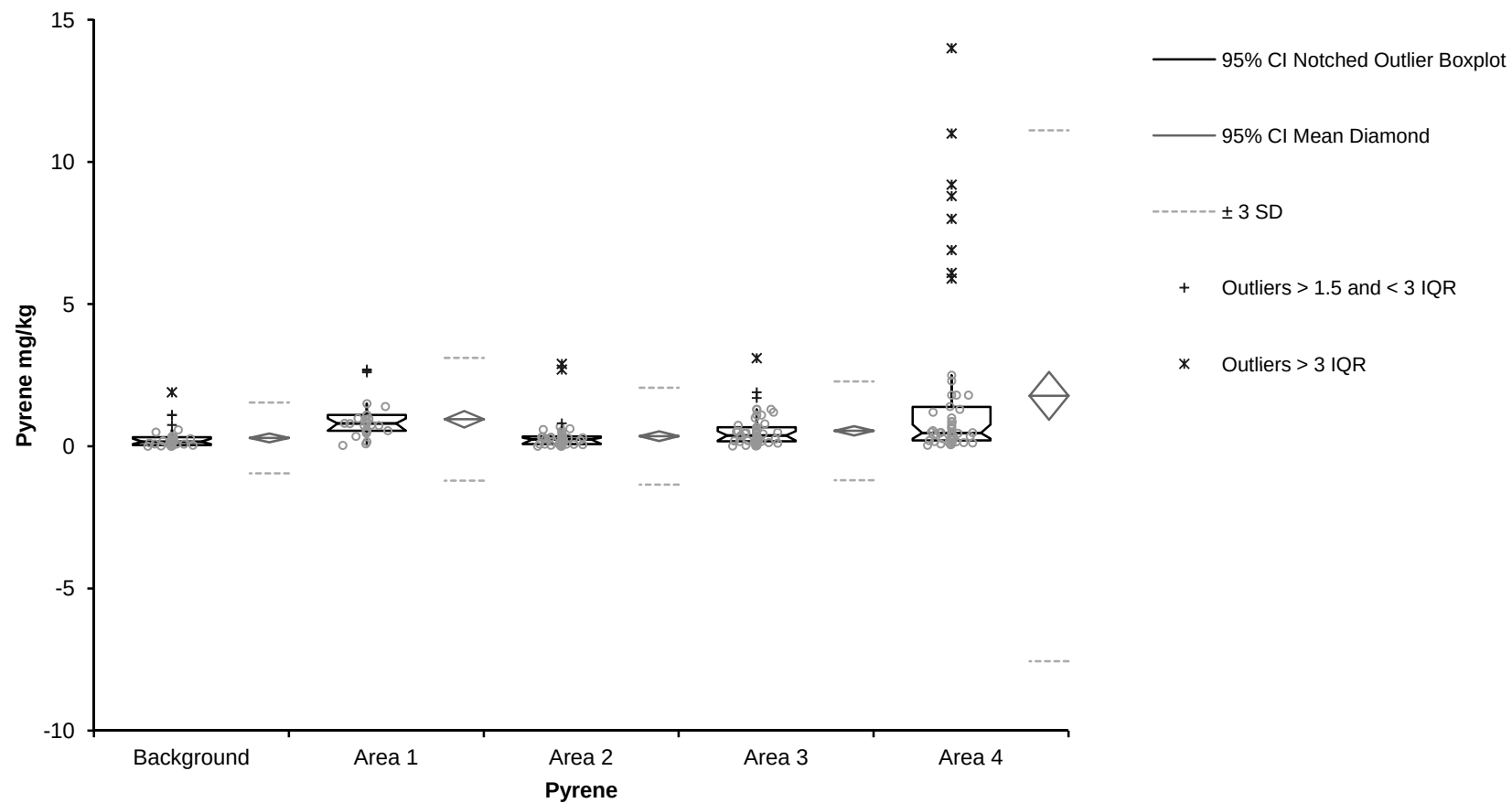
Ft. Totten Soil

Pyrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Pyrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Pyrene	n	Mean	95% CI	SE	SD
Background	31	0.29323	0.14066 to 0.44580	0.074705	0.415939
Area 1	26	0.95085	0.66034 to 1.24135	0.141055	0.719244
Area 2	45	0.35388	0.18325 to 0.52451	0.084664	0.567941
Area 3	51	0.54425	0.38137 to 0.70714	0.081098	0.579153
Area 4	55	1.77445	0.93319 to 2.61572	0.419610	3.111915

Pyrene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0034	0.03950	0.16000	0.07800 to 0.27000	0.31833	1.9000	0.27883
Area 1	26	0.0330	0.54583	0.80500	0.55000 to 0.98000	1.10000	2.7000	0.55417
Area 2	45	0.0037	0.07700	0.24000	0.09000 to 0.30000	0.34333	2.9000	0.26633
Area 3	51	0.0110	0.17333	0.38000	0.20000 to 0.53000	0.66833	3.1000	0.49500
Area 4	55	0.0380	0.20500	0.47000	0.27000 to 0.76000	1.38333	14.0000	1.17833

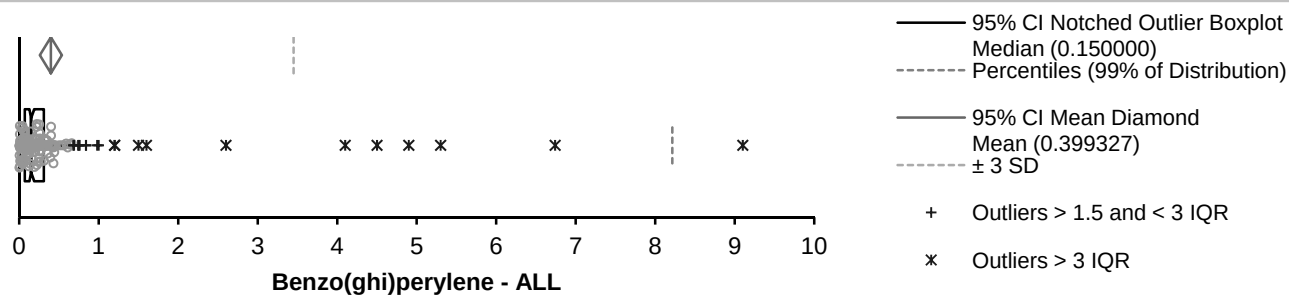
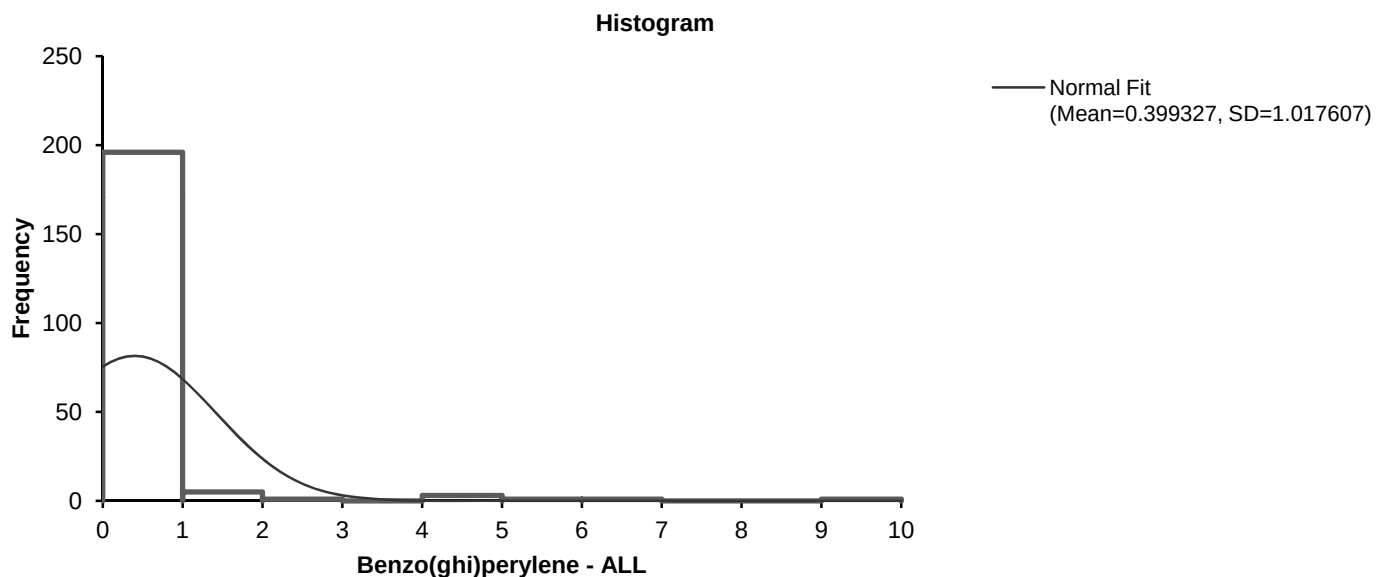
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(ghi)perylene - ALL

Performed by | AMEC

Date | 11 February 2012



n	208		
Mean	0.399327	Median	0.150000
95% CI	0.260222 to 0.538432	95.6% CI	0.130000 to 0.190000
SE	0.0705584		
		Range	9.09740
Variance	1.035524	IQR	0.239167
SD	1.017607		
95% CI	0.928311 to 1.126059	Percentile	
		0th	0.002600 (minimum)
CV	254.8%	0.5th	0.003313
		25th	0.070833 (1st quartile)
Skewness	5.80	50th	0.150000 (median)
Kurtosis	37.93	75th	0.310000 (3rd quartile)
		99.5th	8.215000
Shapiro-Wilk W	0.33	100th	9.100000 (maximum)
p	<0.0001		

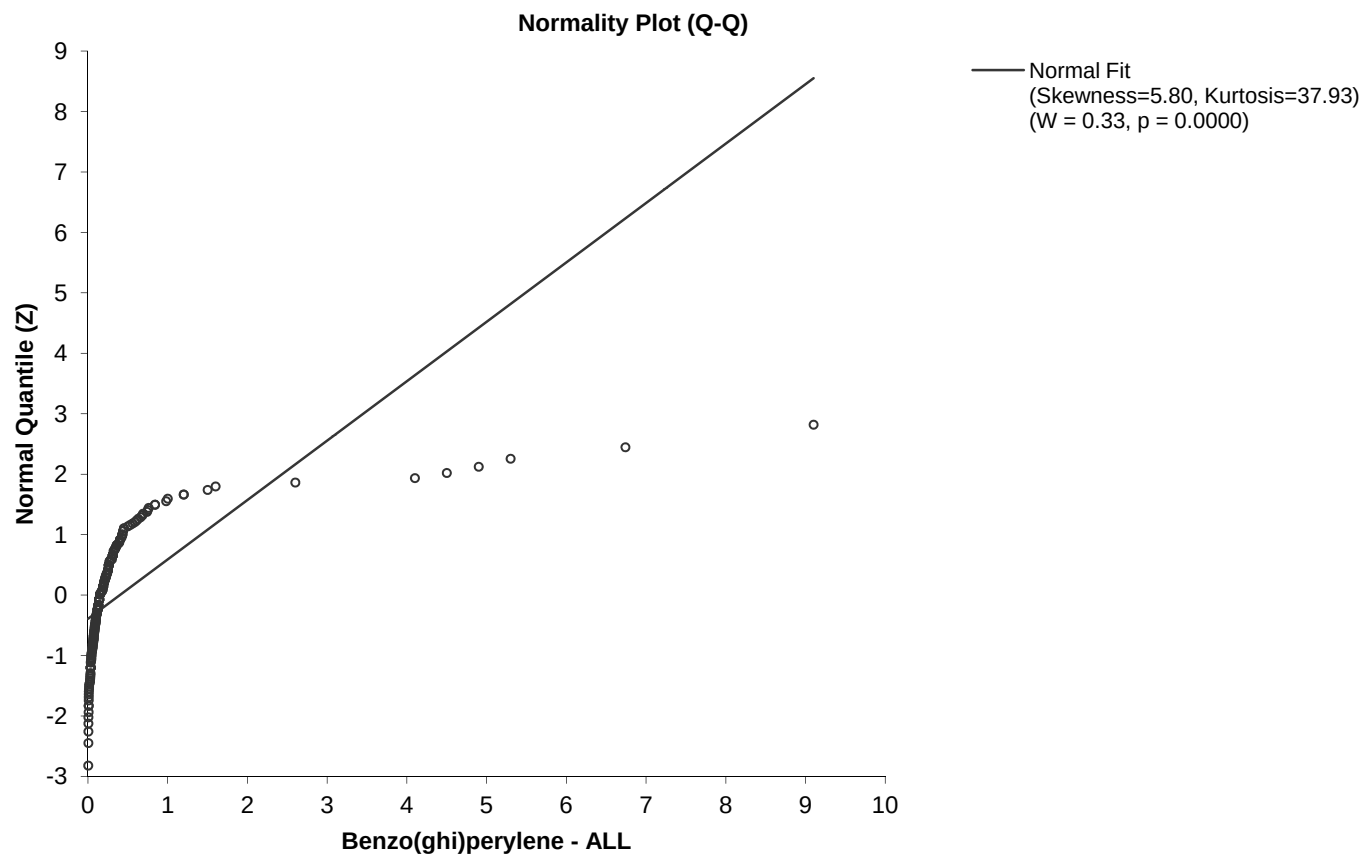
Test | **Describe - Summary**

Ft. Totten Soil

Benzo(ghi)perylene - ALL

Performed by AMEC

Date | 11 February 2012



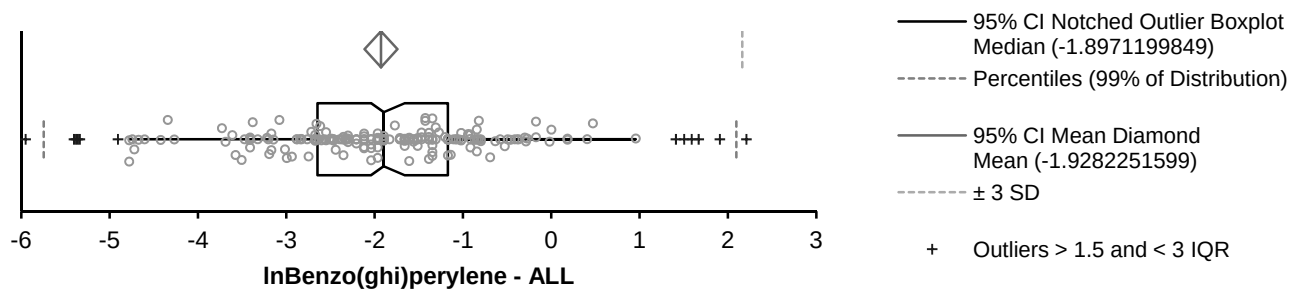
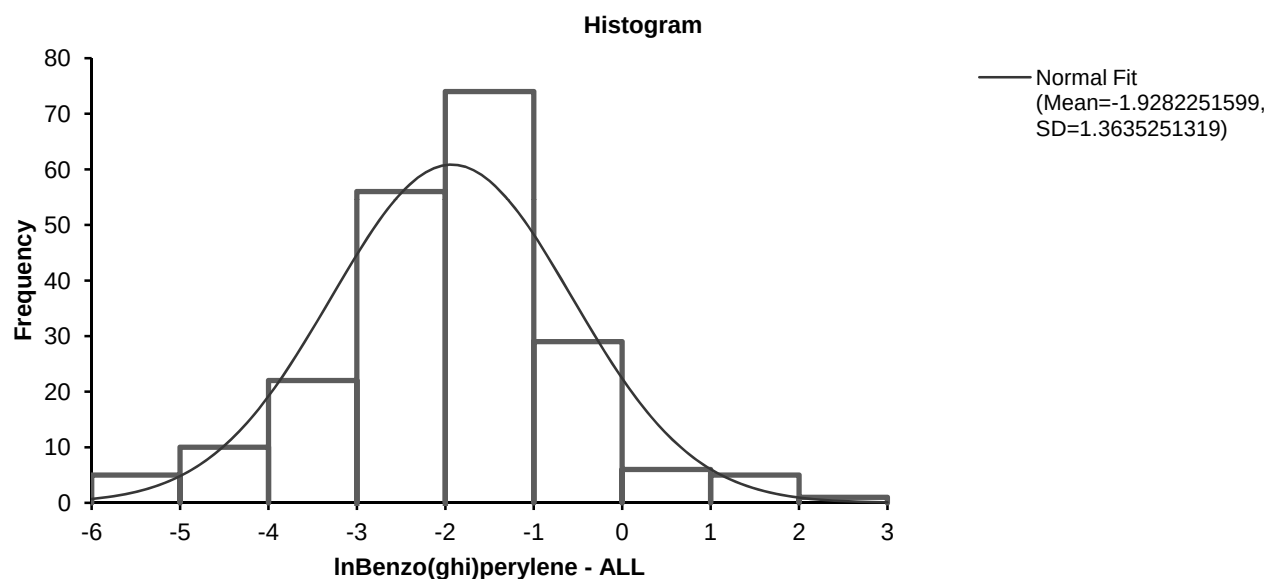
Test | Describe - Summary

Ft. Totten Soil

InBenzo(ghi)perylene - ALL

Performed by | AMEC

Date | 11 February 2012



n	208		
Mean	-1.9282251599	Median	-1.8971199849
95% CI	-2.1146166601 to -1.74183366	95.6% CI	-2.0402208285 to -1.66073121
SE	0.0945434573		
Variance	1.8592007854	Range	8.160518247
SD	1.3635251319	IQR	1.4763391900
95% CI	1.2438749436 to 1.50884324	Percentile	
CV	-70.7%	0th	-5.9522438340 (minimum)
Skewness	-0.10	0.5th	-5.7465316020
Kurtosis	1.10	25th	-2.6475221715 (1st quartile)
Shapiro-Wilk W	0.97	50th	-1.8971199849 (median)
p	0.001	75th	-1.1711829815 (3rd quartile)
		99.5th	2.0956939803
		100th	2.2082744135 (maximum)

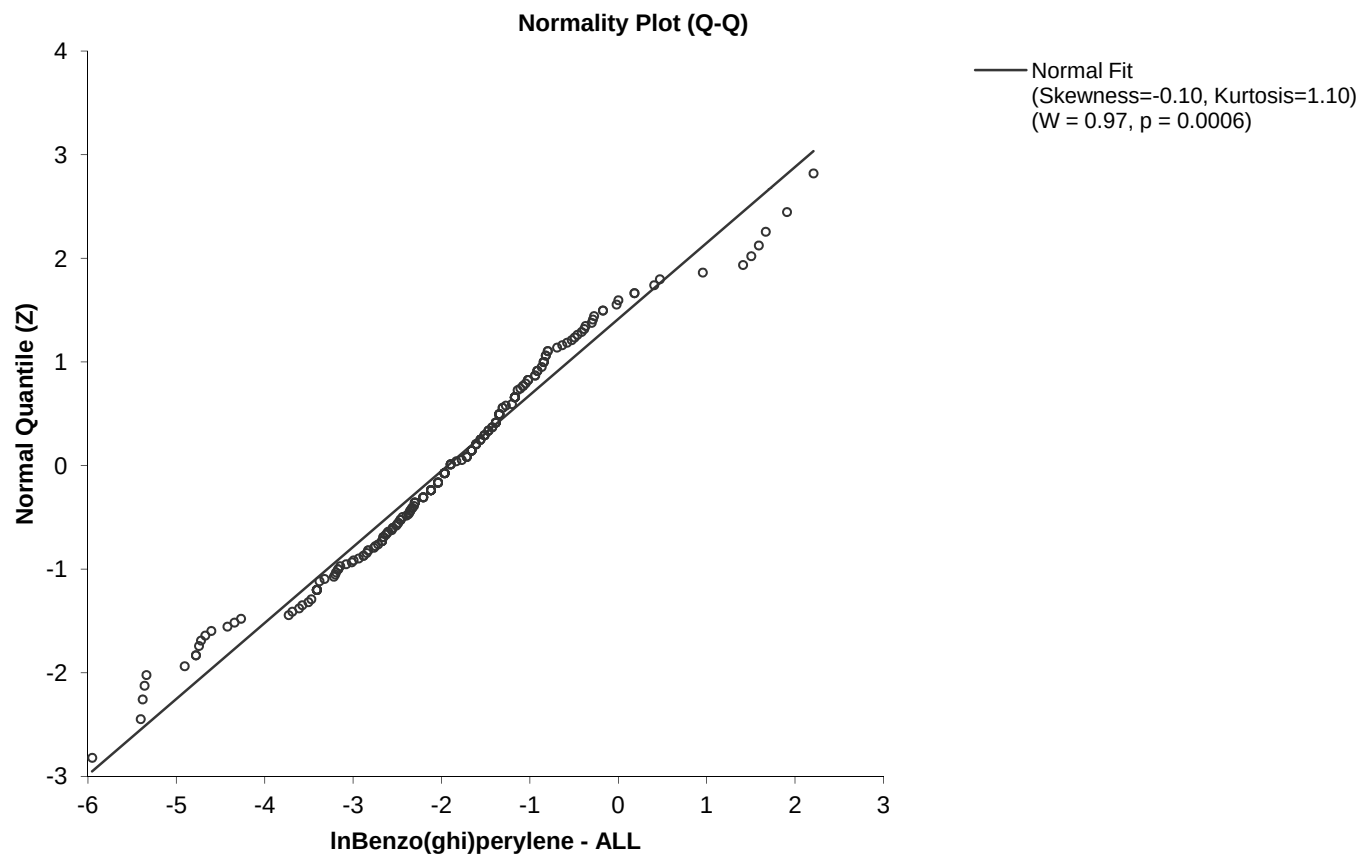
Test | **Describe - Summary**

Ft. Totten Soil

lnBenzo(ghi)perylene - ALL

Performed by AMEC

Date | 11 February 2012



Test Describe - Comparative

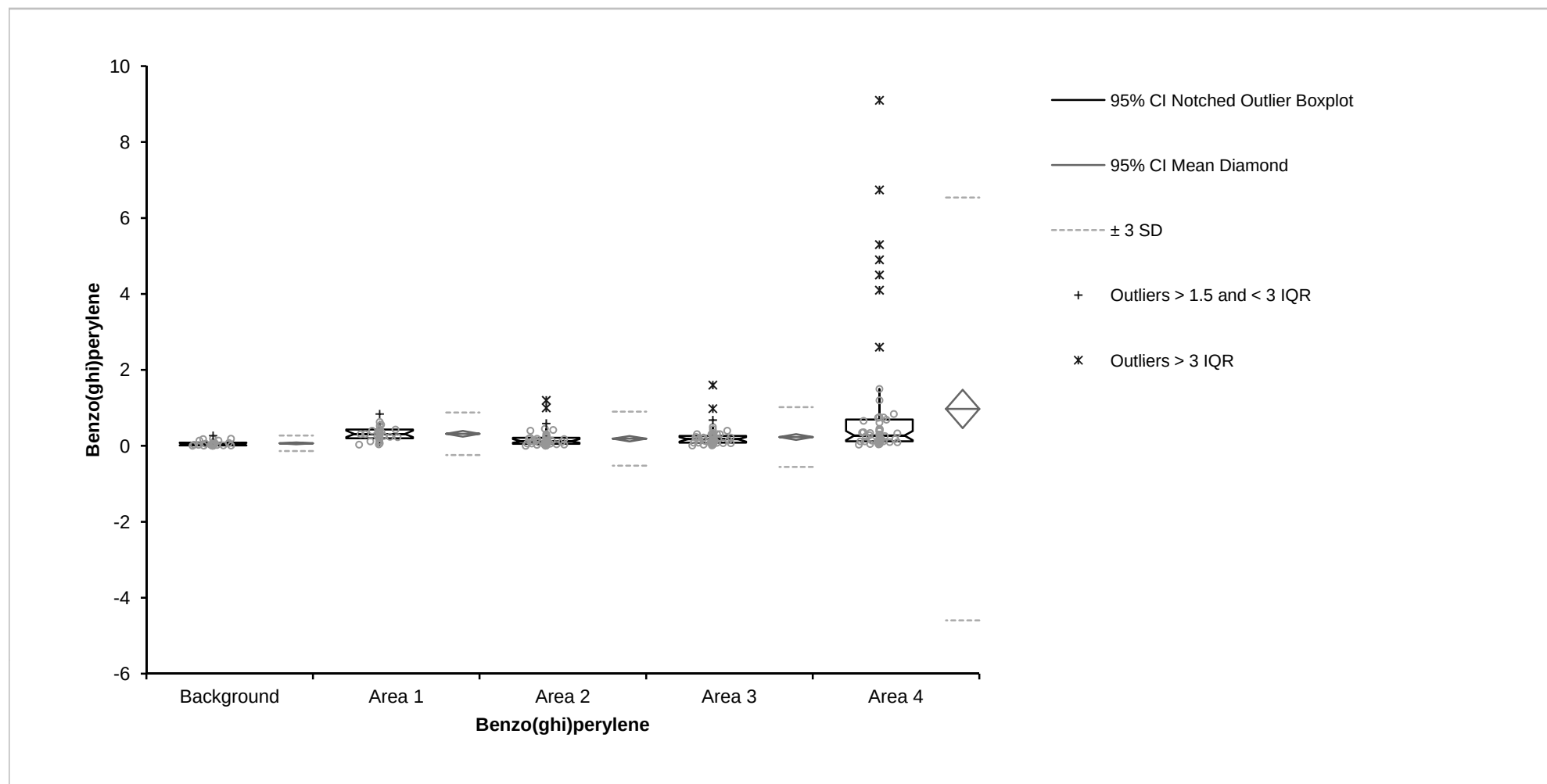
Ft. Totten Soil

Benzo(ghi)perylene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

12 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Benzo(ghi)perylene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

12 February 2012

Benzo(ghi)perylene	n	Mean	95% CI	SE	SD
Background	31	0.066123	0.041187 to 0.091058	0.0122095	0.0679796
Area 1	26	0.317408	0.241957 to 0.392858	0.0366346	0.1868004
Area 2	45	0.188770	0.117564 to 0.259975	0.0353314	0.2370100
Area 3	50	0.231838	0.157143 to 0.306533	0.0371694	0.2628275
Area 4	54	0.971852	0.465239 to 1.478465	0.2525807	1.8560817

Benzo(ghi)perylene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.00450	0.010333	0.056000	0.014000 to 0.077000	0.083833	0.27000	0.073500
Area 1	26	0.03300	0.200000	0.310000	0.230000 to 0.400000	0.430000	0.84000	0.230000
Area 2	45	0.00260	0.054000	0.120000	0.081000 to 0.180000	0.213333	1.20000	0.159333
Area 3	50	0.00890	0.084750	0.175000	0.110000 to 0.230000	0.260833	1.60000	0.176083
Area 4	54	0.03300	0.120000	0.270000	0.150000 to 0.390000	0.694167	9.10000	0.574167

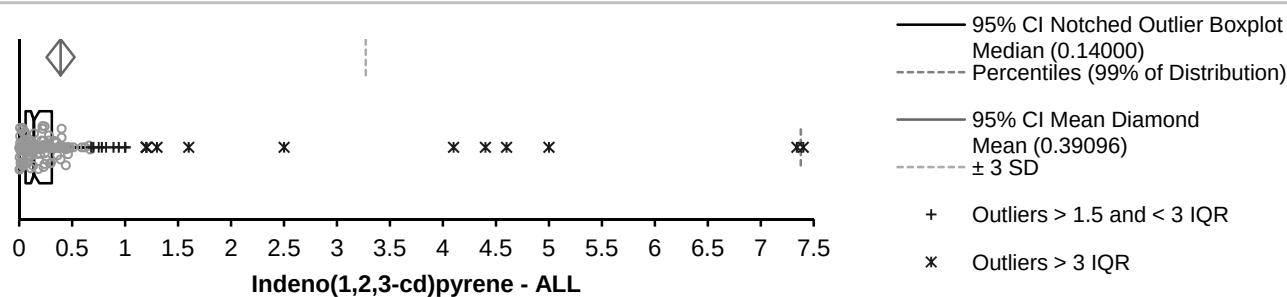
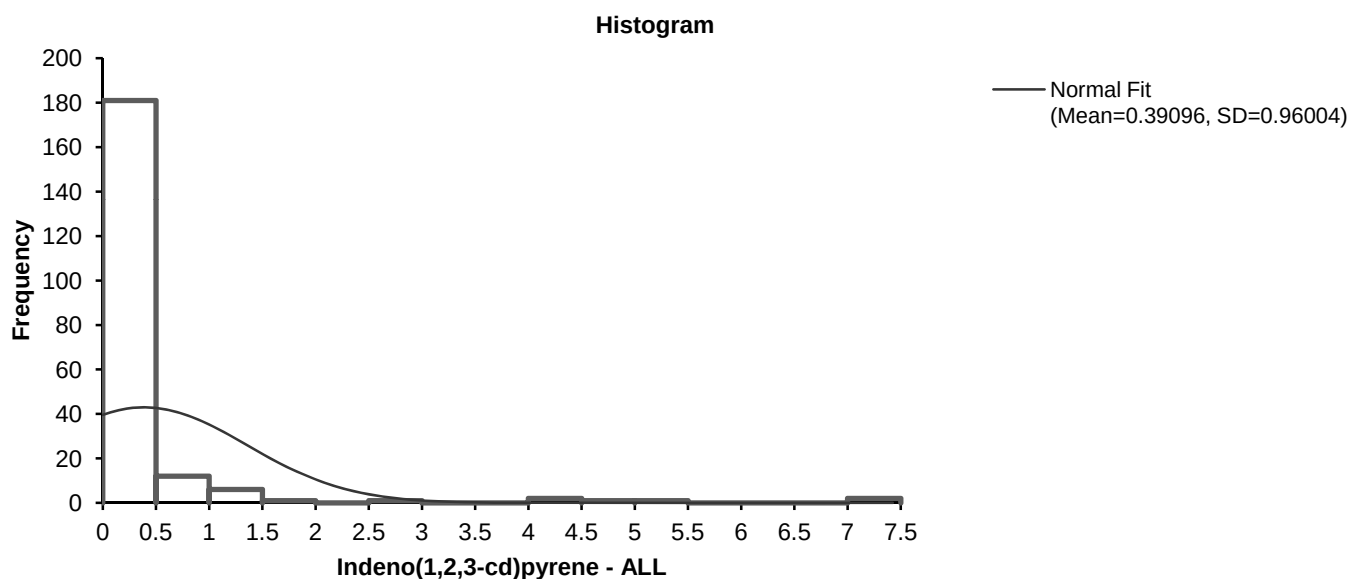
Test | **Describe - Summary**

Ft. Totten Soil

Indeno(1,2,3-cd)pyrene - ALL

Performed by | AMEC

Date | 12 February 2012



n	207		
Mean	0.39096	Median	0.14000
95% CI	0.25940 to 0.52251	96.3% CI	0.11000 to 0.19000
SE	0.066727		
Variance	0.92168	Range	7.3989
SD	0.96004	IQR	0.24683
95% CI	0.87561 to 1.06263	Percentile	
CV	245.6%	0th	0.00110 (minimum)
Skewness	5.42	0.5th	0.00143
Kurtosis	32.16	25th	0.06150 (1st quartile)
Shapiro-Wilk W	0.36	50th	0.14000 (median)
p	<0.0001	75th	0.30833 (3rd quartile)
		99.5th	7.37780
		100th	7.40000 (maximum)

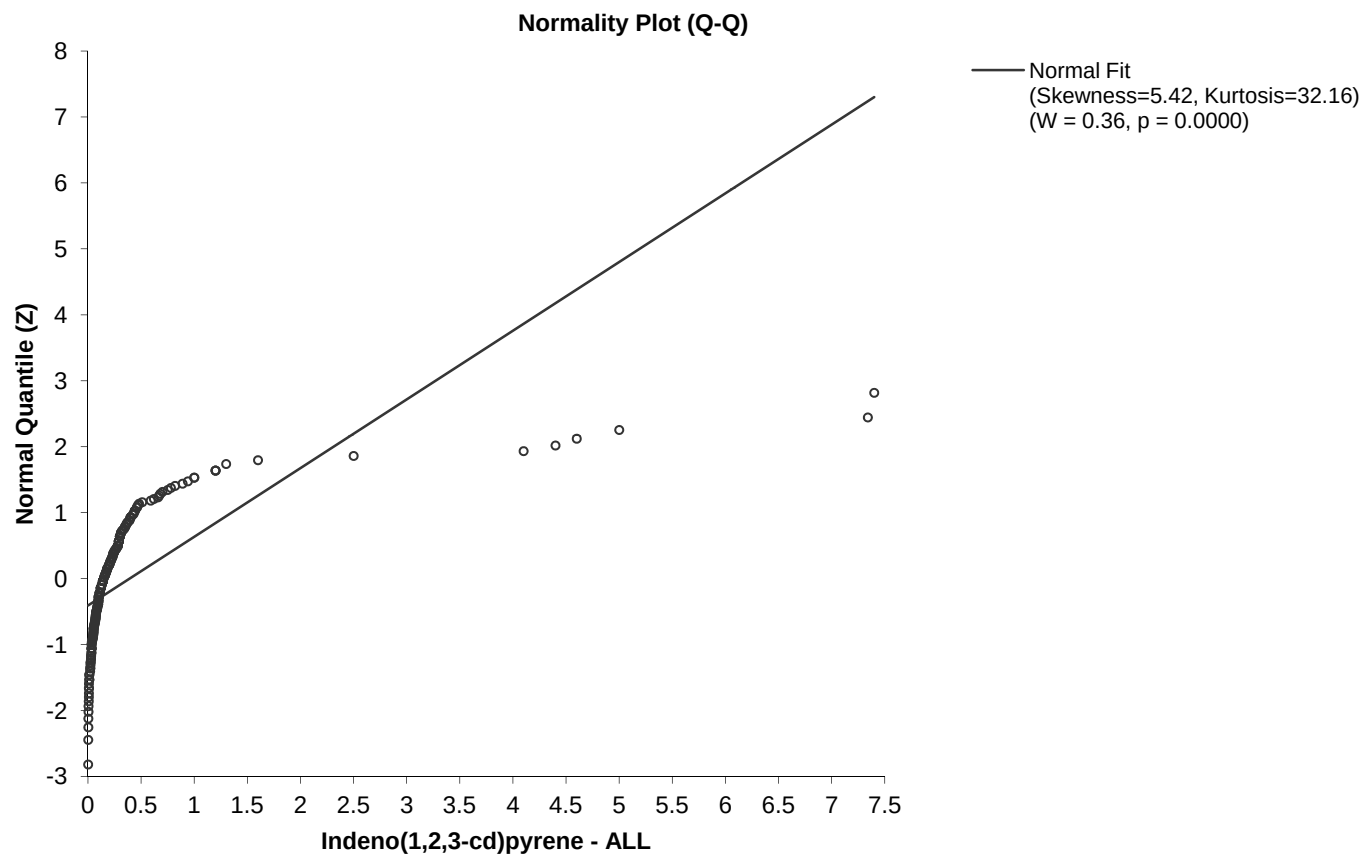
Test | **Describe - Summary**

Ft. Totten Soil

Indeno(1,2,3-cd)pyrene - ALL

Performed by | AMEC

Date | 12 February 2012

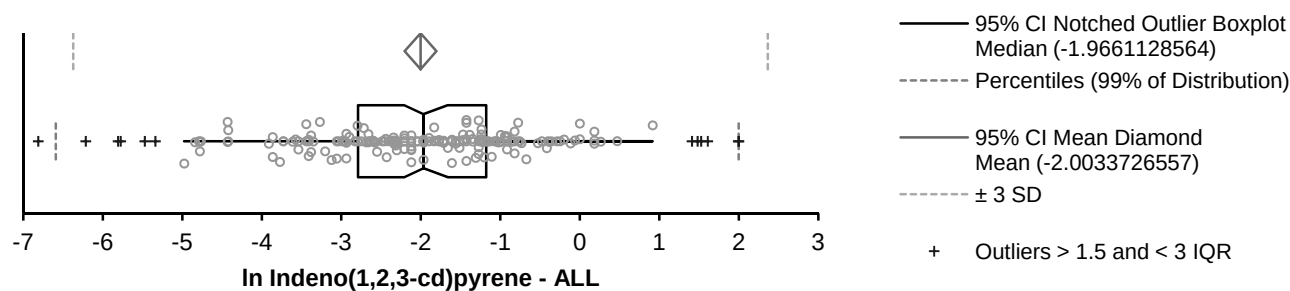
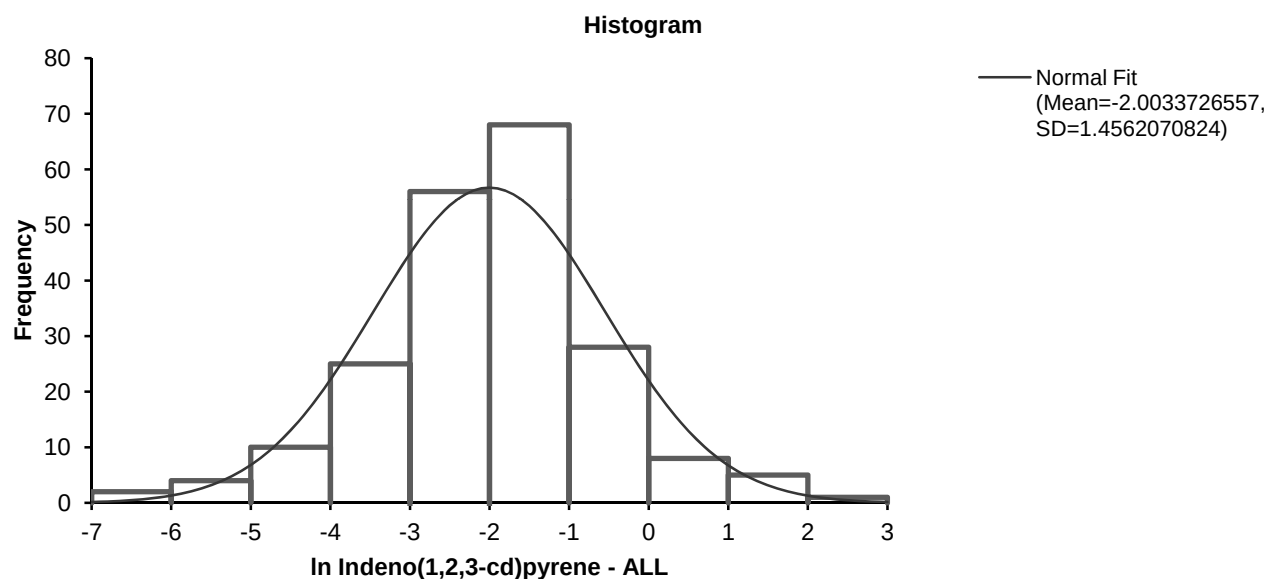


Test | **Describe - Summary**

Ft. Totten Soil
In Indeno(1,2,3-cd)pyrene - ALL

Performed by | AMEC

Date | 10 February 2012



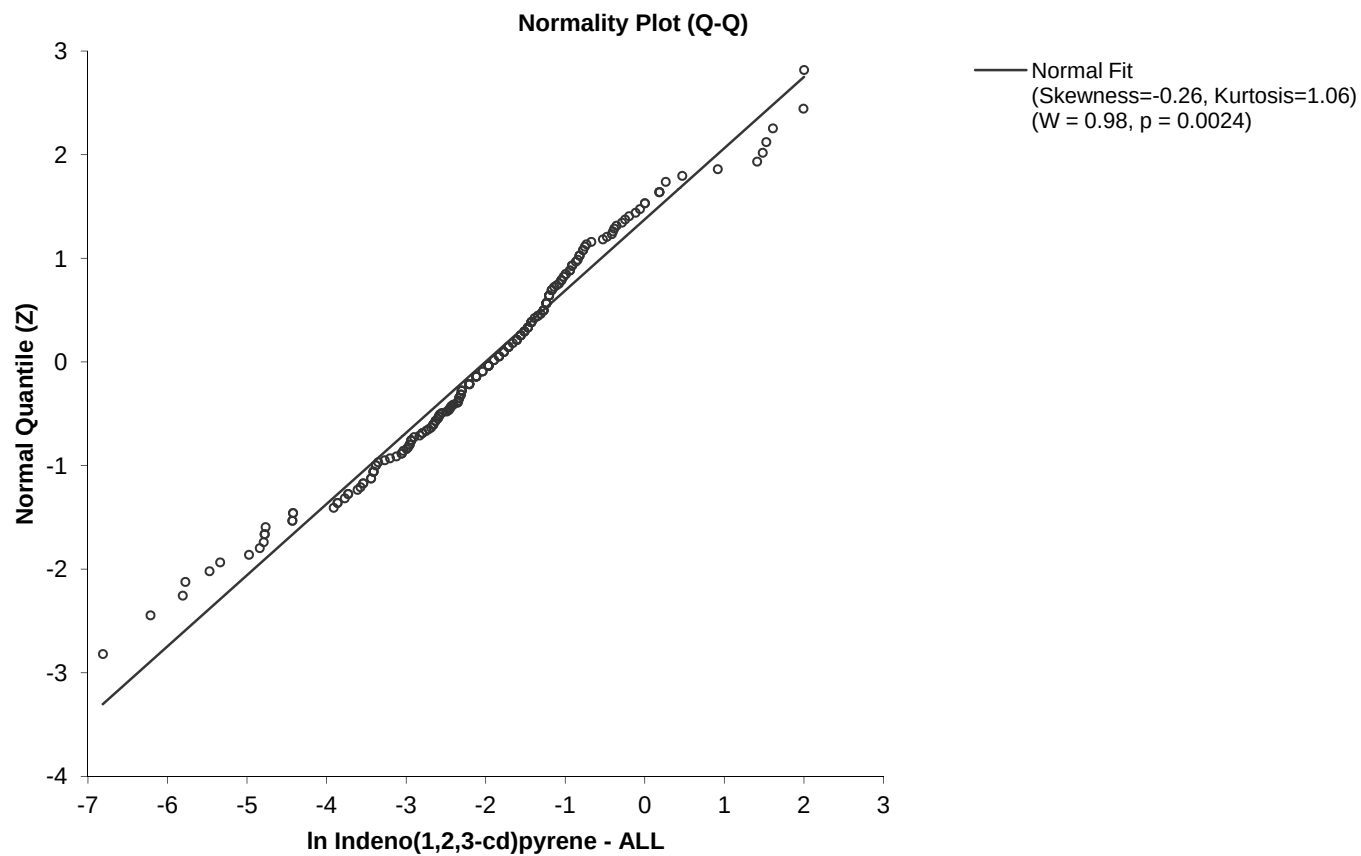
n	207		
Mean	-2.0033726557	Median	-1.9661128564
95% CI	-2.2029195567 to -1.80382575	96.3% CI	-2.2072749132 to -1.66073121
SE	0.101213389		
Variance	2.1205390667	Range	8.813925099
SD	1.4562070824	IQR	1.6122319263
95% CI	1.3281420596 to 1.61181880	Percentile	
CV	-72.7%	0th	-6.8124450992 (minimum)
Skewness	-0.26	0.5th	-6.5912454089
Kurtosis	1.06	25th	-2.7888798783 (1st quartile)
Shapiro-Wilk W	0.98	50th	-1.9661128564 (median)
p	0.002	75th	-1.1766479520 (3rd quartile)
		99.5th	1.9984677719
		100th	2.0014800002 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
ln Indeno(1,2,3-cd)pyrene - ALL

Performed by AMEC

Date | 10 February 2012



Test | Describe - Comparative

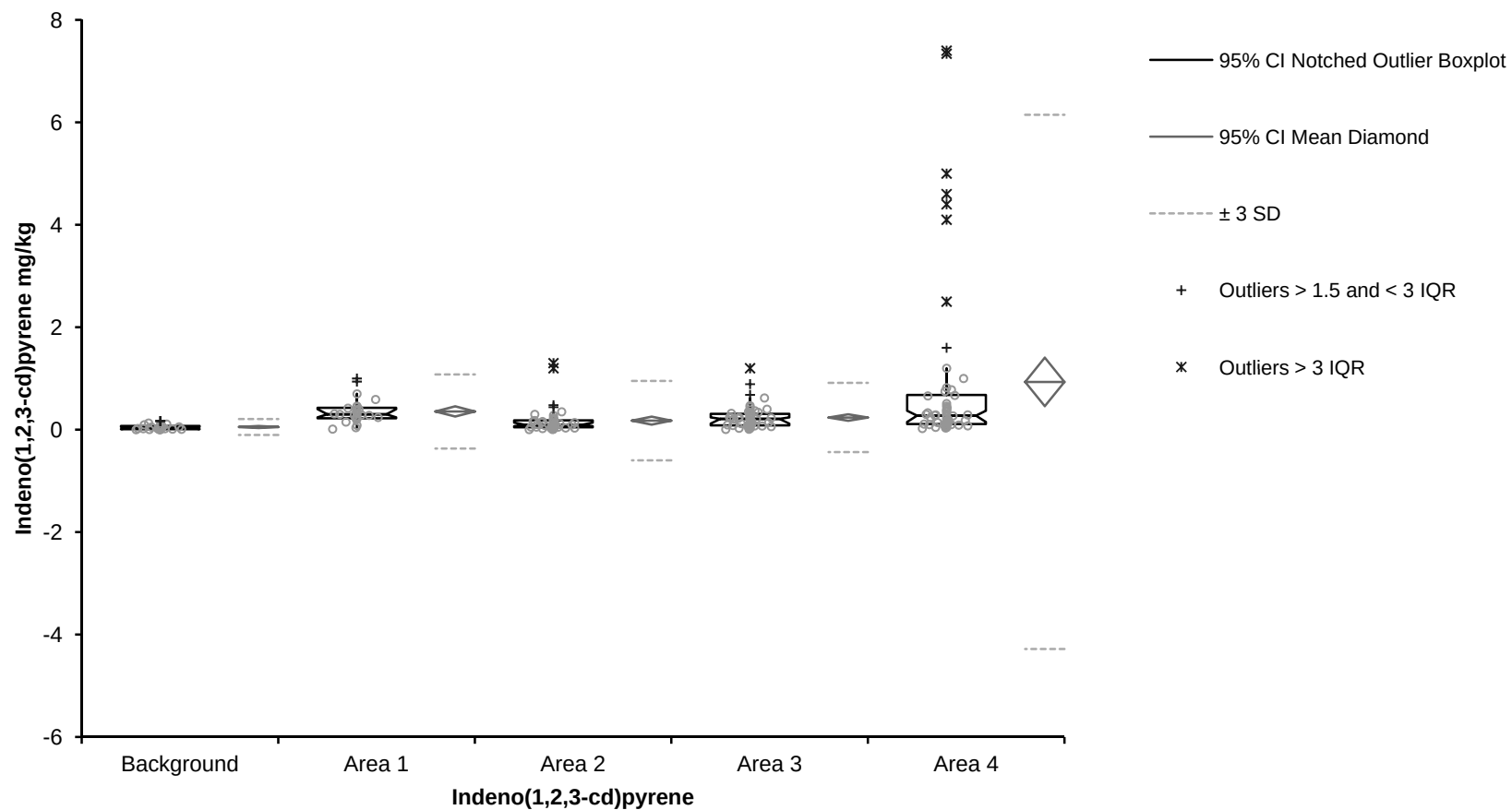
Ft. Totten Soil

Indeno(1,2,3-cd)pyrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by | AMEC

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10 February 2012



Test | Describe - Comparative

Ft. Totten Soil

Indeno(1,2,3-cd)pyrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

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Indeno(1,2,3-cd)pyrene	n	Mean	95% CI	SE	SD
Background	31	0.05206	0.03300 to 0.07112	0.009331	0.051954
Area 1	25	0.35594	0.25643 to 0.45545	0.048212	0.241061
Area 2	45	0.17549	0.09791 to 0.25307	0.038494	0.258228
Area 3	51	0.23758	0.17425 to 0.30090	0.031526	0.225143
Area 4	54	0.93215	0.45773 to 1.40657	0.236531	1.738139

Indeno(1,2,3-cd)pyrene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0011	0.00900	0.03800	0.01200 to 0.05500	0.07167	0.1700	0.06267
Area 1	25	0.0119	0.22333	0.30000	0.24000 to 0.40000	0.42667	1.0000	0.20333
Area 2	45	0.0031	0.04533	0.09900	0.06800 to 0.14000	0.18333	1.3000	0.13800
Area 3	51	0.0069	0.08500	0.21000	0.12000 to 0.24000	0.30833	1.2000	0.22333
Area 4	54	0.0240	0.10917	0.27500	0.15000 to 0.37000	0.67667	7.4000	0.56750

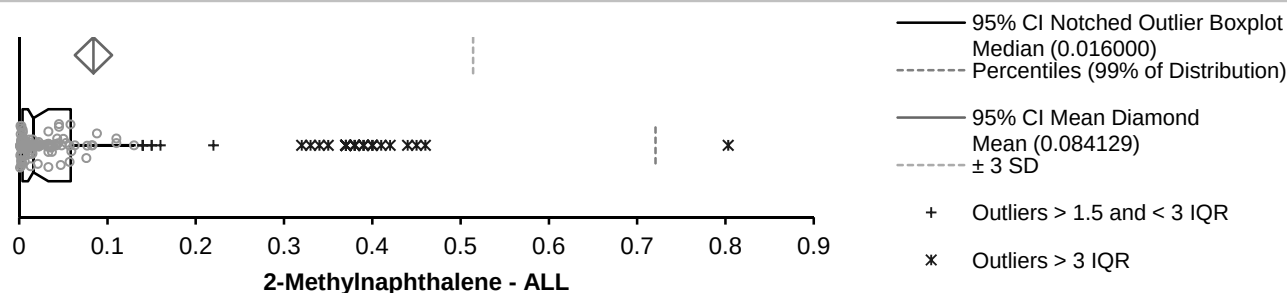
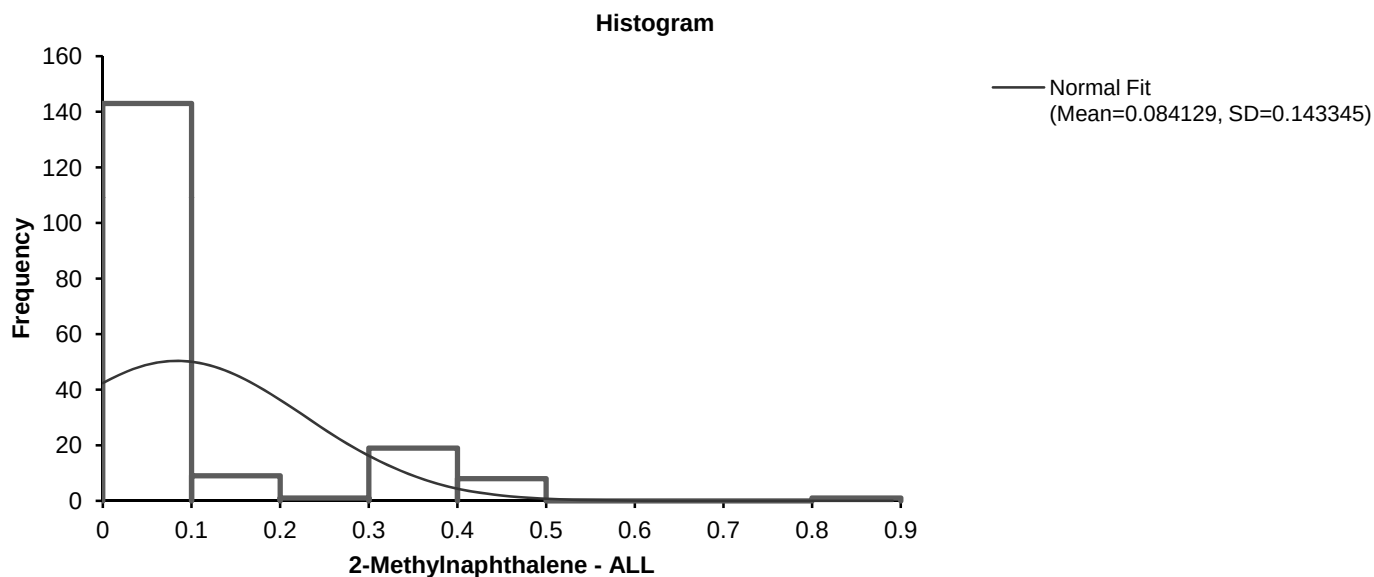
Test | Describe - Summary

Ft. Totten

2-Methylnaphthalene - ALL

Performed by AMEC

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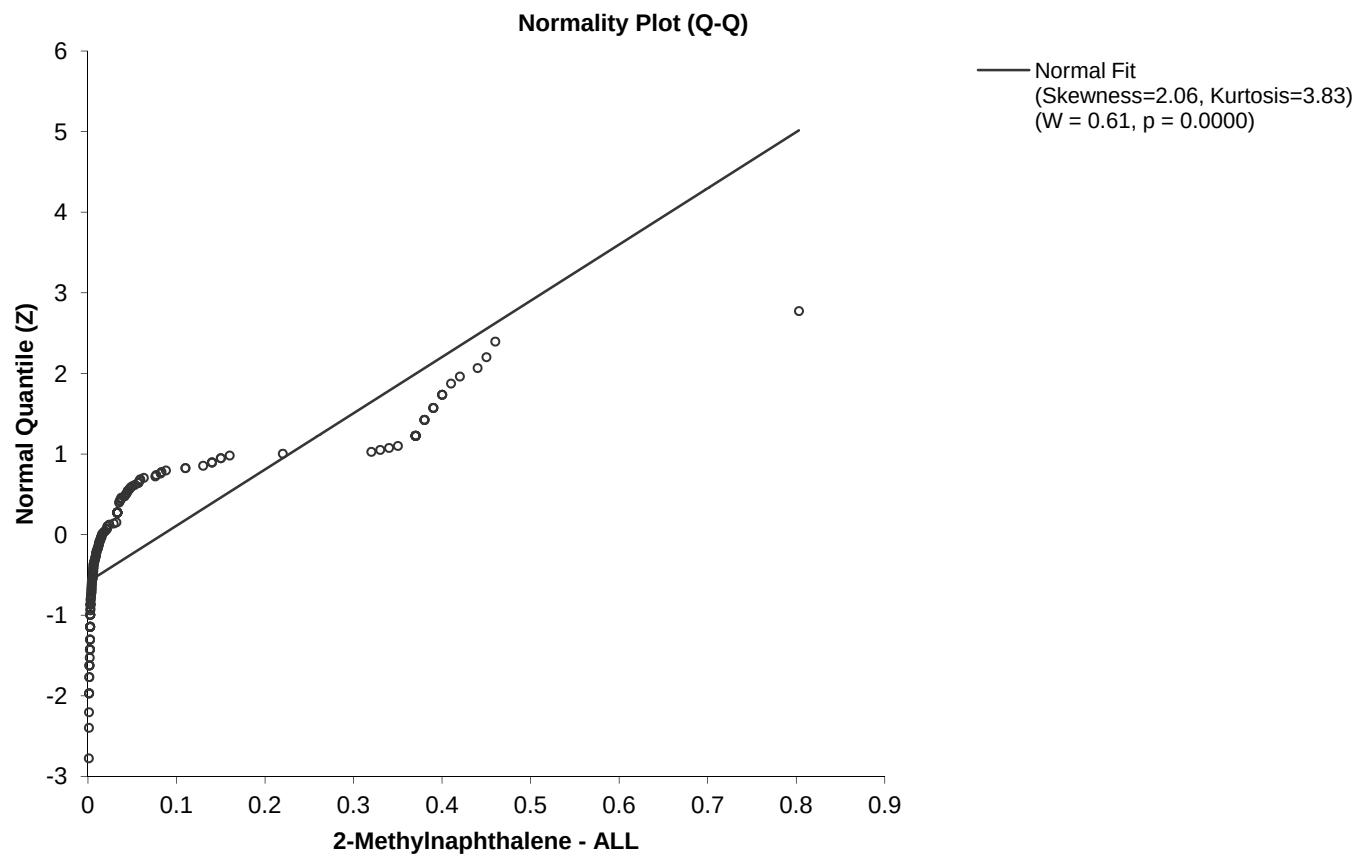
n	181		
Mean	0.084129	Median	0.016000
95% CI	0.063104 to 0.105153	96.3% CI	0.010000 to 0.033000
SE	0.0106548		
Variance	0.020548	Range	0.80212
SD	0.143345	IQR	0.054433
95% CI	0.129943 to 0.159854	Percentile	
CV	170.4%	0th	0.000880 (minimum)
Skewness	2.06	0.5th	0.000909
Kurtosis	3.83	25th	0.003900 (1st quartile)
Shapiro-Wilk W	0.61	50th	0.016000 (median)
p	<0.0001	75th	0.058333 (3rd quartile)
		99.5th	0.720680
		100th	0.803000 (maximum)

Test | **Describe - Summary**

Ft. Totten
2-Methylnaphthalene - ALL

Performed by AMEC

Date | 11 February 2012



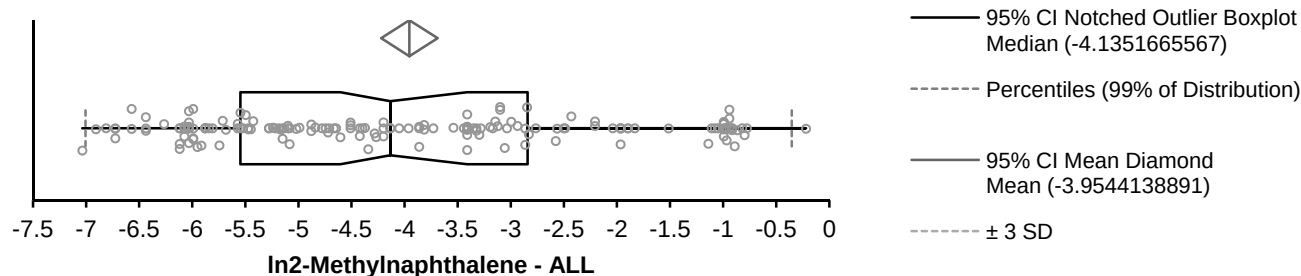
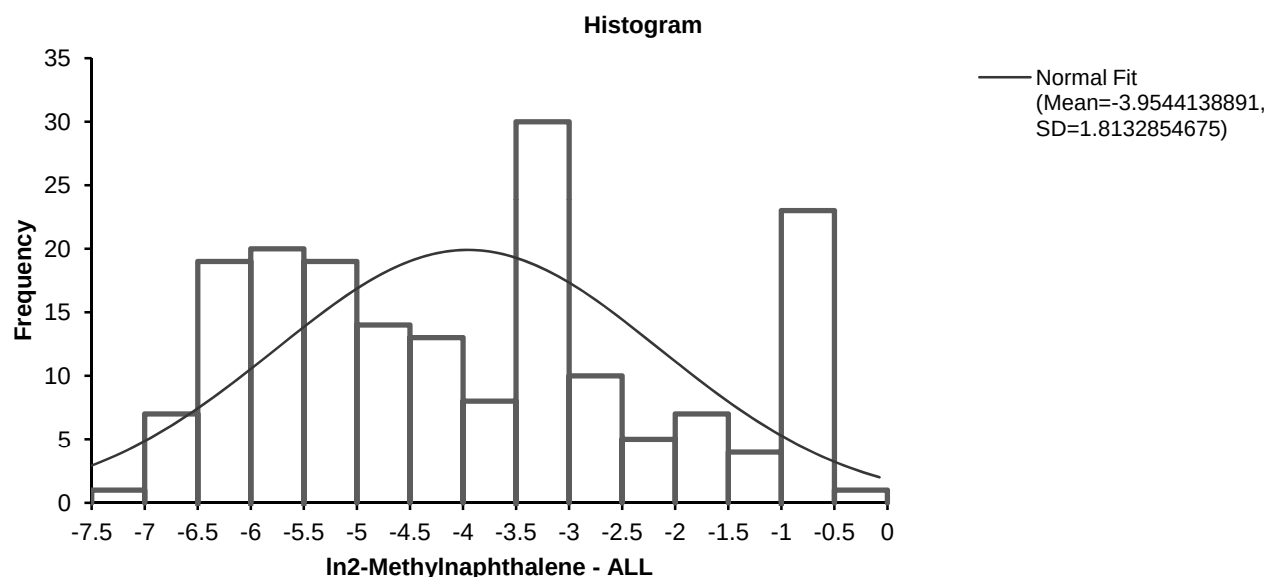
Test | **Describe - Summary**

Ft. Totten Soil

In2-Methylnaphthalene - ALL

Performed by | AMEC

Date | 11 February 2012



n	181		
Mean	-3.9544138891	Median	-4.1351665567
95% CI	-4.2203667972 to -3.68846098	96.3% CI	-4.6051701860 to -3.41124772
SE	0.1347804473		
Variance	3.2880041865	Range	6.816188085
SD	1.8132854675	IQR	2.7051646019
95% CI	1.6437525612 to 2.02211691	Percentile	
CV	-45.9%	0th	-7.0355886505 (minimum)
Skewness	0.32	0.5th	-7.0049086413
Kurtosis	-1.02	25th	-5.5467787258 (1st quartile)
Shapiro-Wilk W	0.94	50th	-4.1351665567 (median)
p	<0.0001	75th	-2.8416141240 (3rd quartile)
		99.5th	-0.3531113389
		100th	-0.2194005650 (maximum)

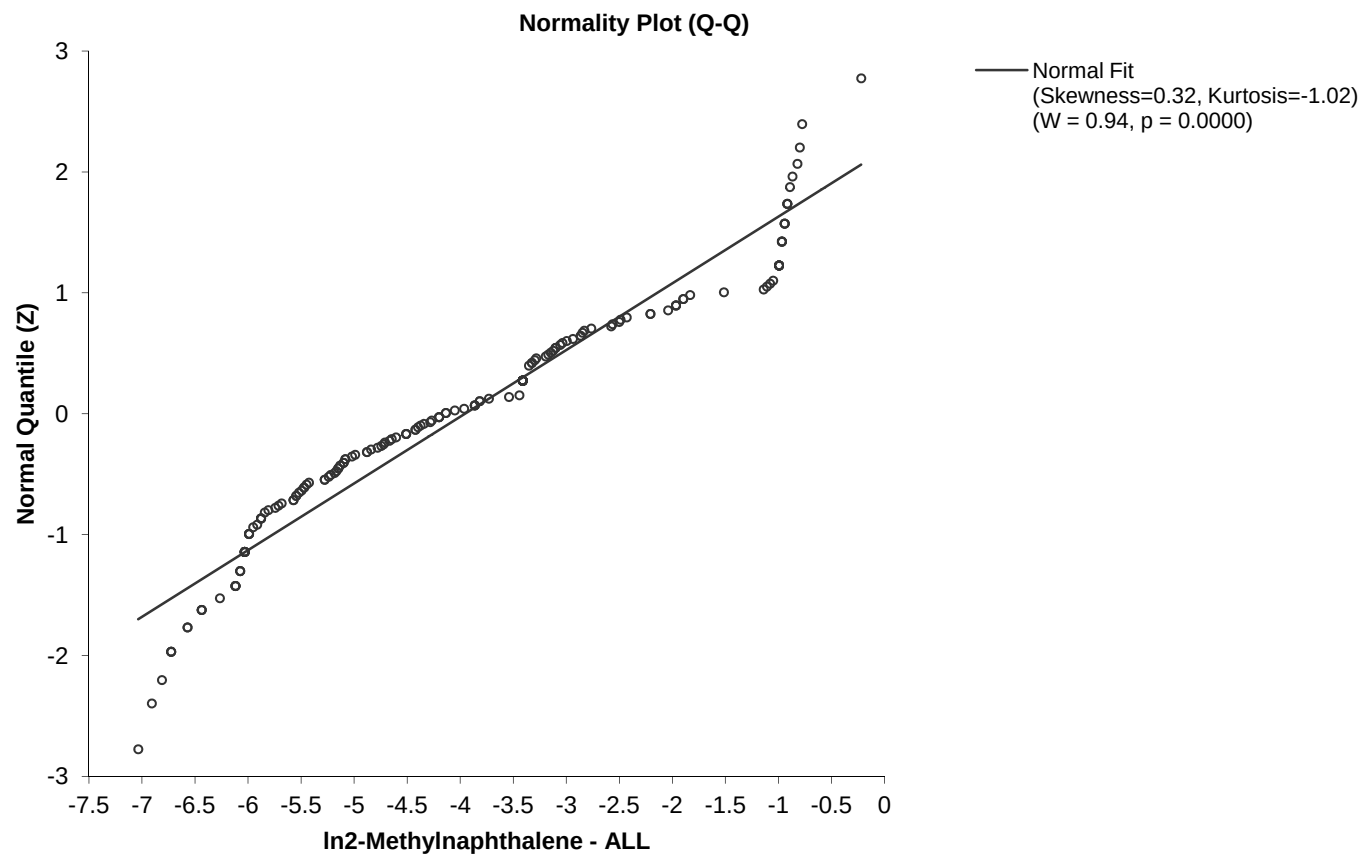
Test | **Describe - Summary**

Ft. Totten Soil

ln2-Methylnaphthalene - ALL

Performed by AMEC

Date | 11 February 2012



Test Describe - Comparative

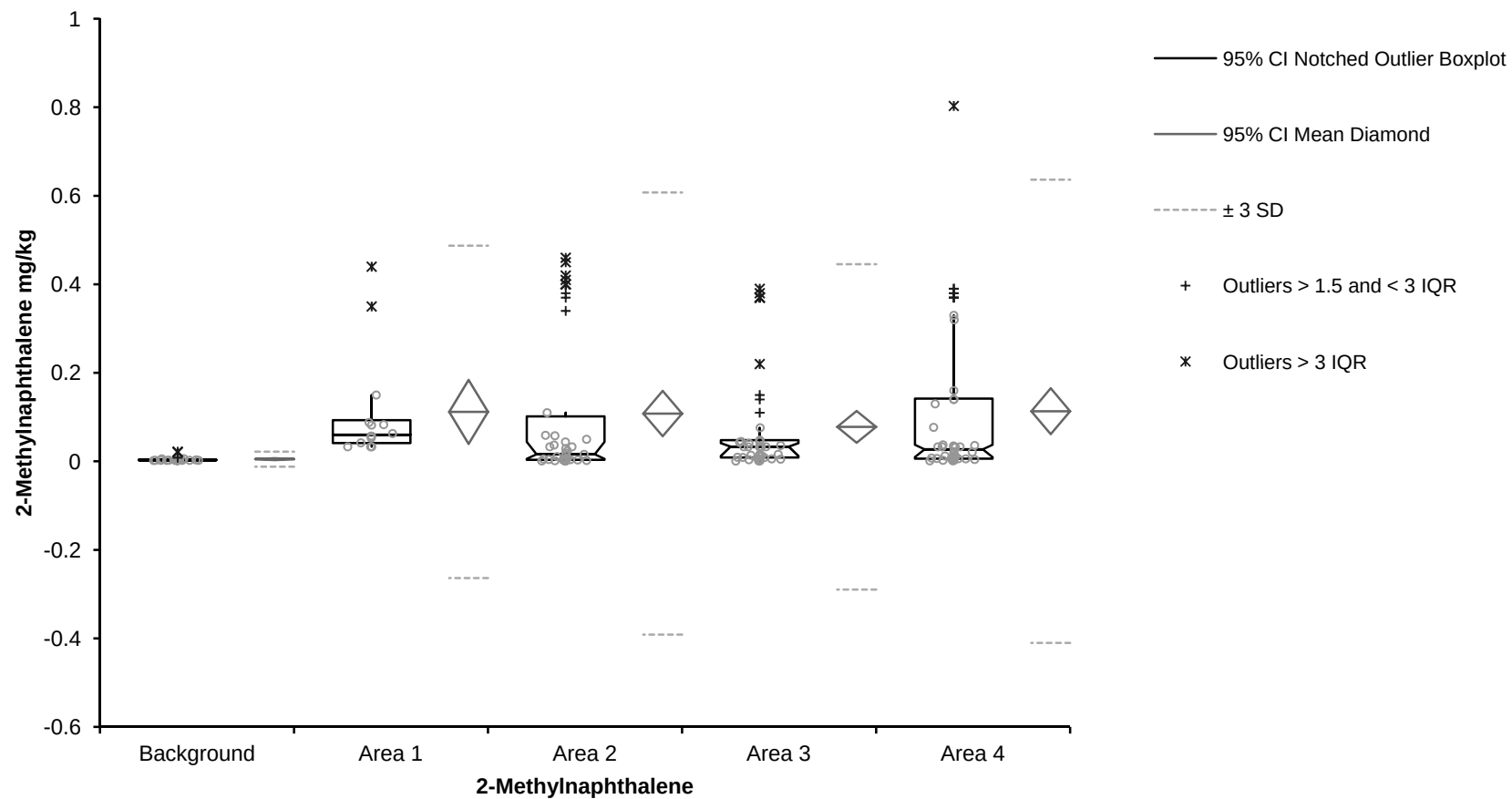
Ft. Totten Soil

2-Methylnaphthalene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

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10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

2-Methylnaphthalene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

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2-Methylnaphthalene	n	Mean	95% CI	SE	SD
Background	31	0.004939	0.002869 to 0.007009	0.0010135	0.0056430
Area 1	14	0.111714	0.039467 to 0.183961	0.0334420	0.1251285
Area 2	43	0.107981	0.056750 to 0.159213	0.0253863	0.1664693
Area 3	47	0.077878	0.041909 to 0.113848	0.0178696	0.1225077
Area 4	46	0.113189	0.061381 to 0.164997	0.0257228	0.1744604

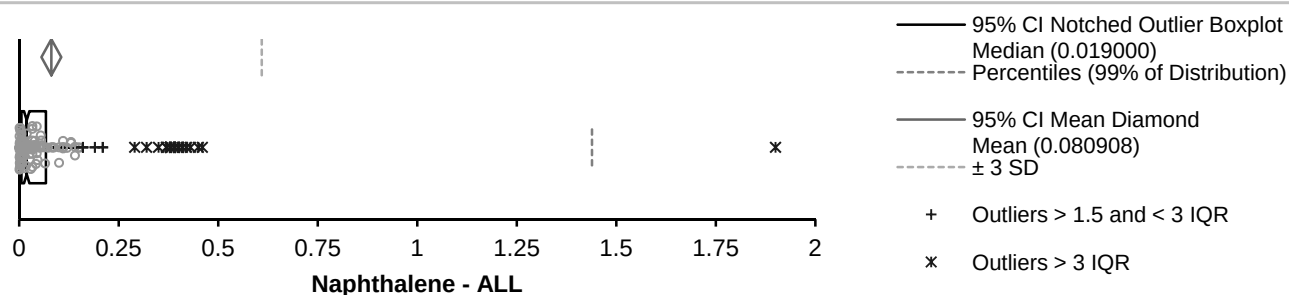
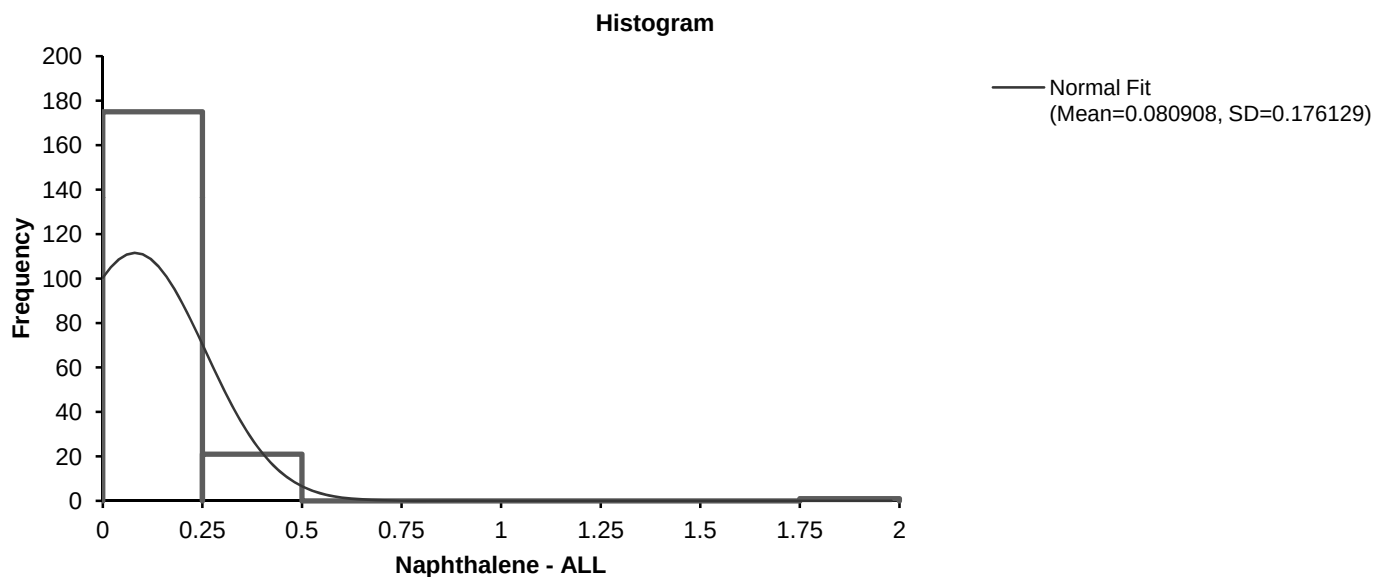
2-Methylnaphthalene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.00220	0.002400	0.002500	0.002400 to 0.003400	0.004050	0.02200	0.001650
Area 1	14	0.03300	0.041250	0.060000	0.033000 to 0.150000	0.093167	0.44000	0.051917
Area 2	43	0.00110	0.003400	0.016000	0.005700 to 0.044000	0.101500	0.46000	0.098100
Area 3	47	0.00088	0.008750	0.033000	0.012000 to 0.041000	0.047833	0.39000	0.039083
Area 4	46	0.00140	0.006100	0.027000	0.009600 to 0.037500	0.141667	0.80300	0.135567

Test **Describe - Summary**

Ft. Totten Soil
Naphthalene - ALL

Performed by AMEC

Date 11 February 2012



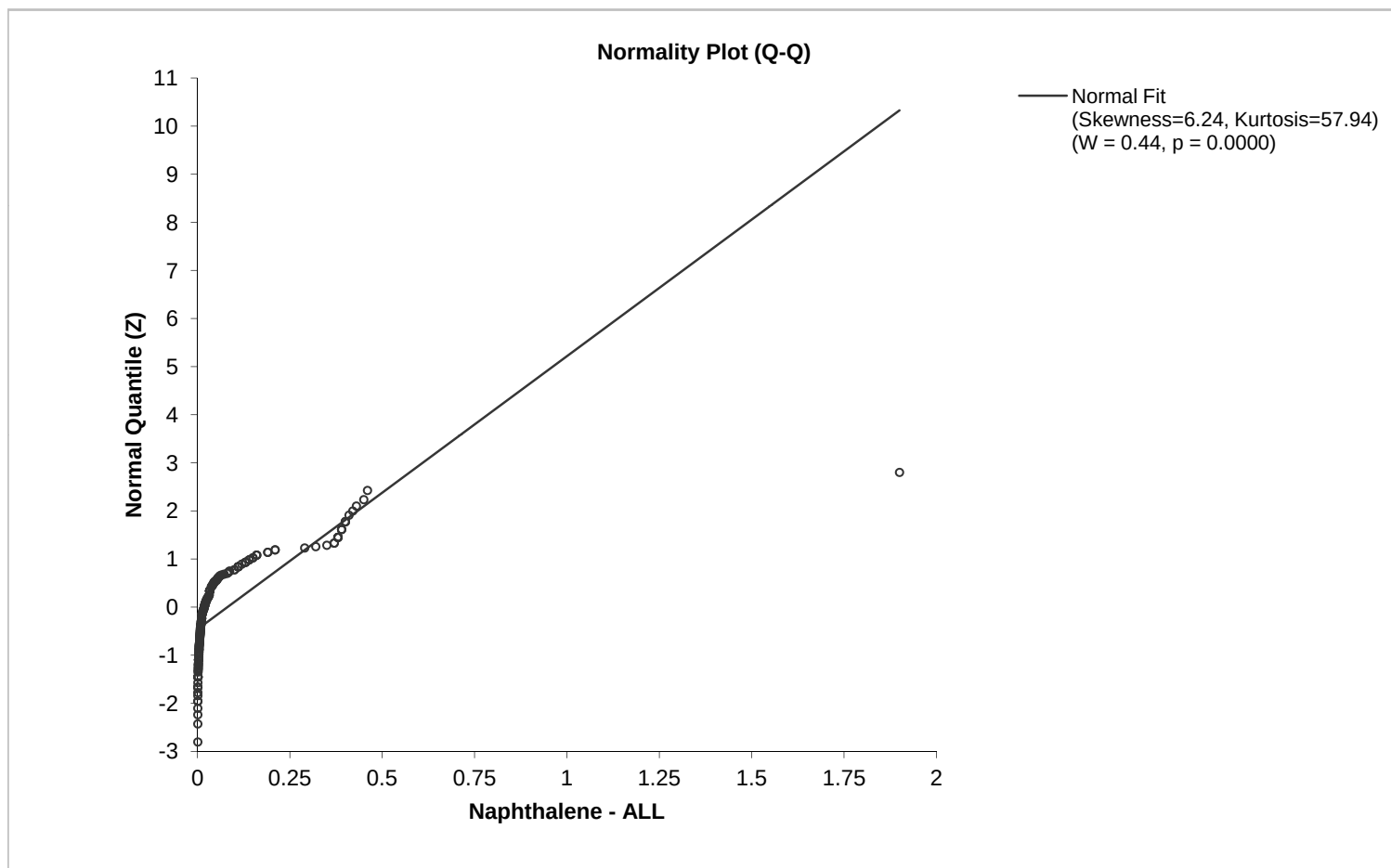
n	197		
Mean	0.080908	Median	0.019000
95% CI	0.056160 to 0.105656	95.4% CI	0.012000 to 0.026000
SE	0.0125486		
		Range	1.89928
Variance	0.031021	IQR	0.061507
SD	0.176129		
95% CI	0.160285 to 0.195475	Percentile	
		0th	0.000720 (minimum)
CV	217.7%	0.5th	0.000726
		25th	0.005827 (1st quartile)
Skewness	6.24	50th	0.019000 (median)
Kurtosis	57.94	75th	0.067333 (3rd quartile)
		99.5th	1.439200
Shapiro-Wilk W	0.44	100th	1.900000 (maximum)
p	<0.0001		

Test | **Describe - Summary**

Ft. Totten Soil
Naphthalene - ALL

Performed by AMEC

Date | 11 February 2012

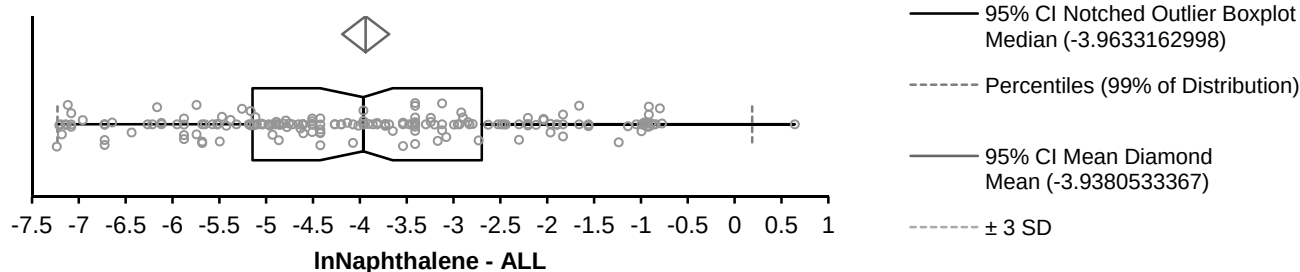
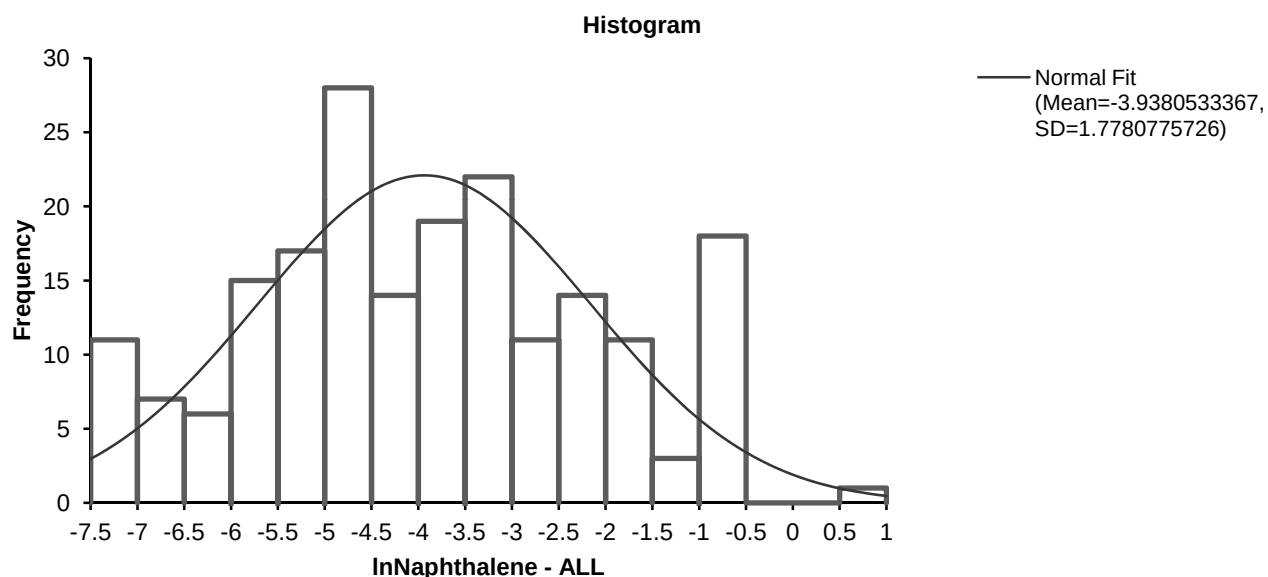


Test | Describe - Summary

Ft. Totten Soil
InNaphthalene - ALL

Performed by | AMEC

Date | 11 February 2012



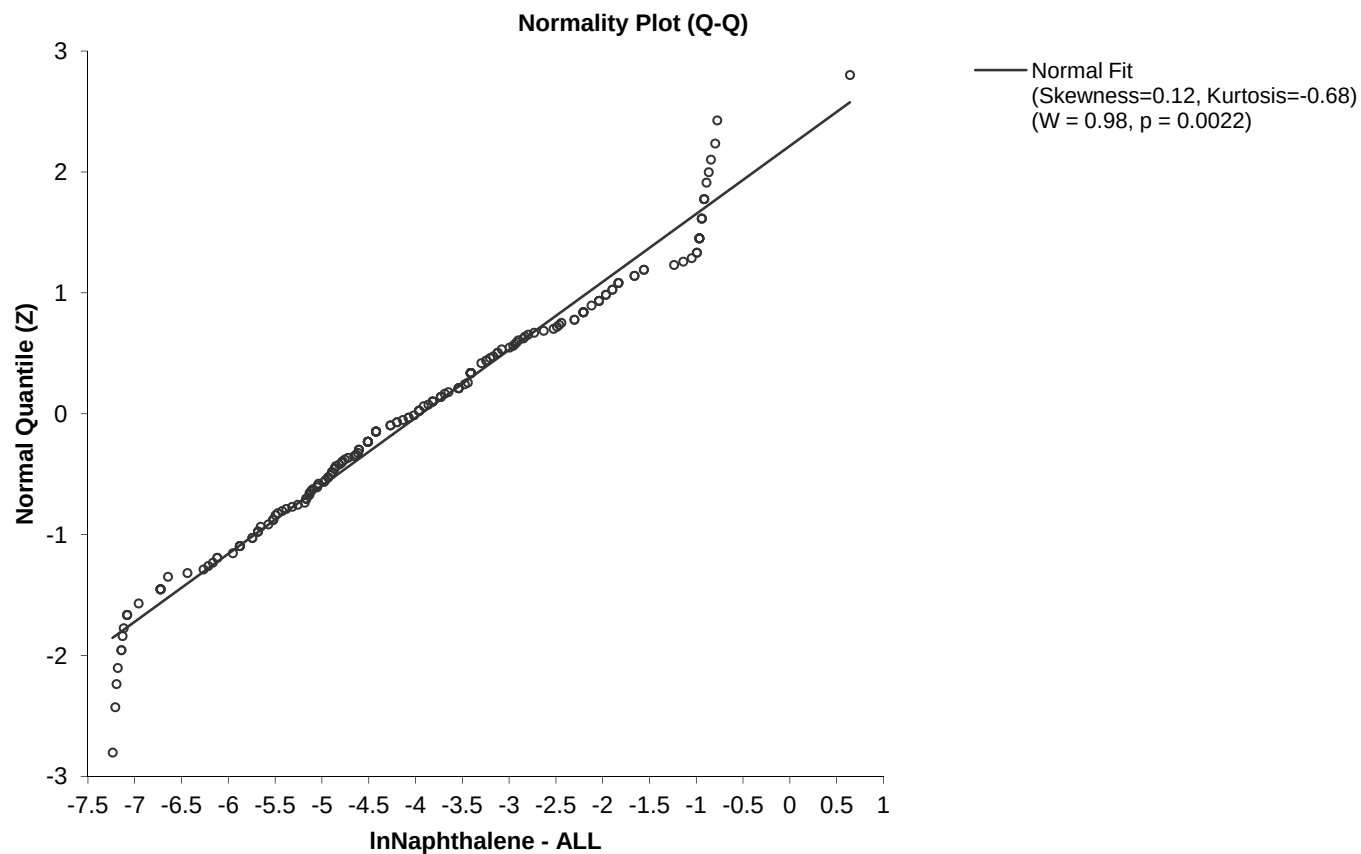
n	197		
Mean	-3.9380533367	Median	-3.9633162998
95% CI	-4.1878896492 to -3.68821702	95.4% CI	-4.4228486292 to -3.64965874
SE	0.1266827817		
Variance	3.1615598543	Range	7.878113232
SD	1.7780775726	IQR	2.4461541629
95% CI	1.6181286905 to 1.97339147	Percentile	
CV	-45.2%	0th	-7.2362593460 (minimum)
Skewness	0.12	0.5th	-7.2274916742
Kurtosis	-0.68	25th	-5.1454292223 (1st quartile)
Shapiro-Wilk W	0.98	50th	-3.9633162998 (median)
p	0.002	75th	-2.6992750594 (3rd quartile)
		99.5th	0.1879714300
		100th	0.6418538862 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InNaphthalene - ALL

Performed by AMEC

Date | 11 February 2012



Test **Describe - Comparative**

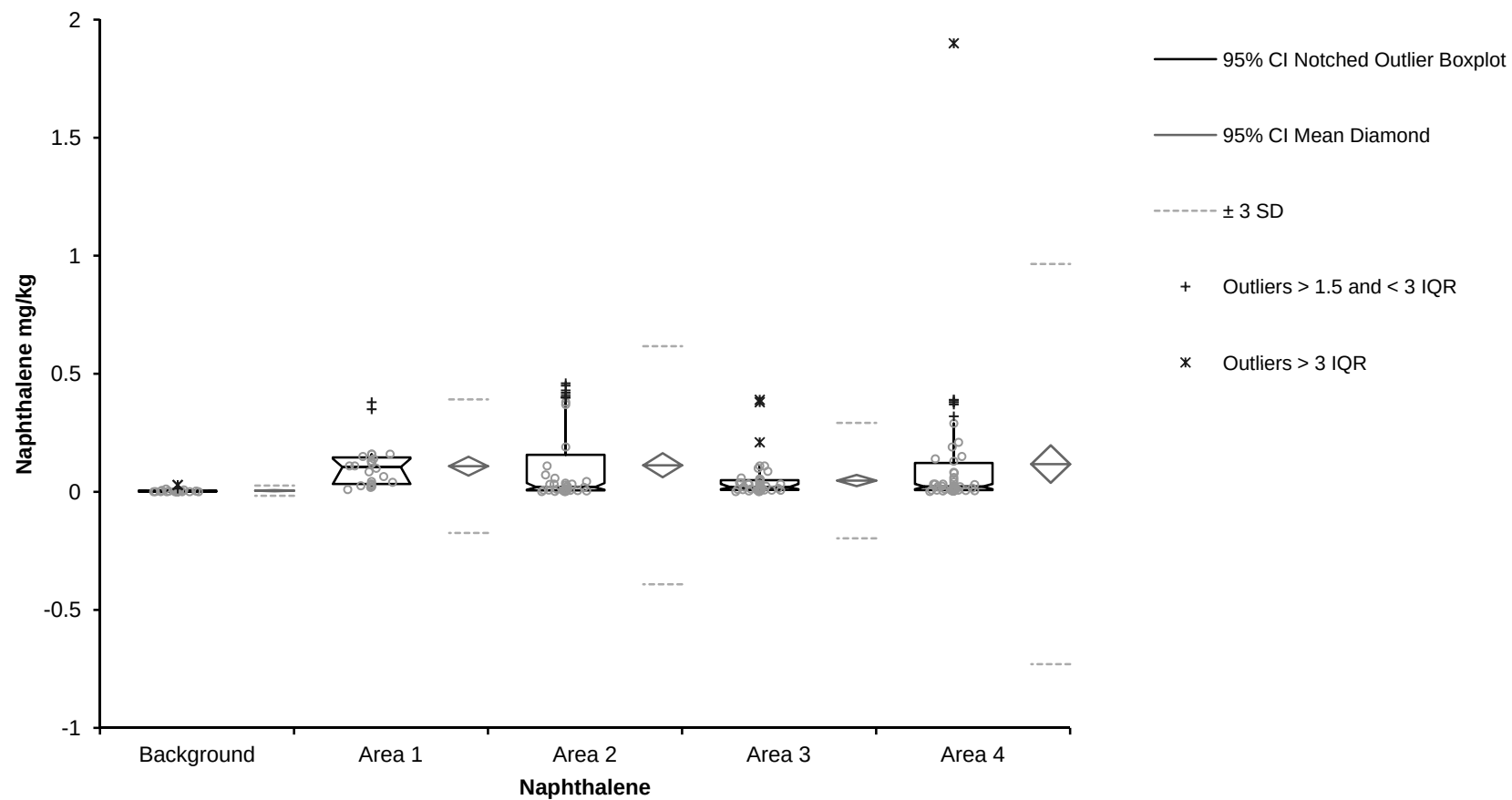
Ft. Totten Soil

Naphthalene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012



Test **Describe - Comparative**

Ft. Totten Soil

Naphthalene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

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Naphthalene	n	Mean	95% CI	SE	SD
Background	31	0.004759	0.002094 to 0.007424	0.0013049	0.0072651
Area 1	24	0.108604	0.068759 to 0.148450	0.0192615	0.0943618
Area 2	44	0.112516	0.061427 to 0.163606	0.0253334	0.1680425
Area 3	47	0.047693	0.023763 to 0.071624	0.0118886	0.0815043
Area 4	51	0.117500	0.038032 to 0.196968	0.0395648	0.2825491

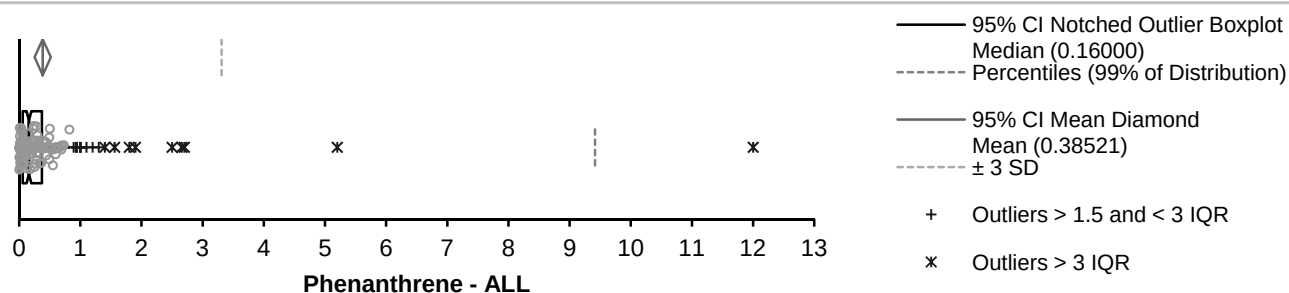
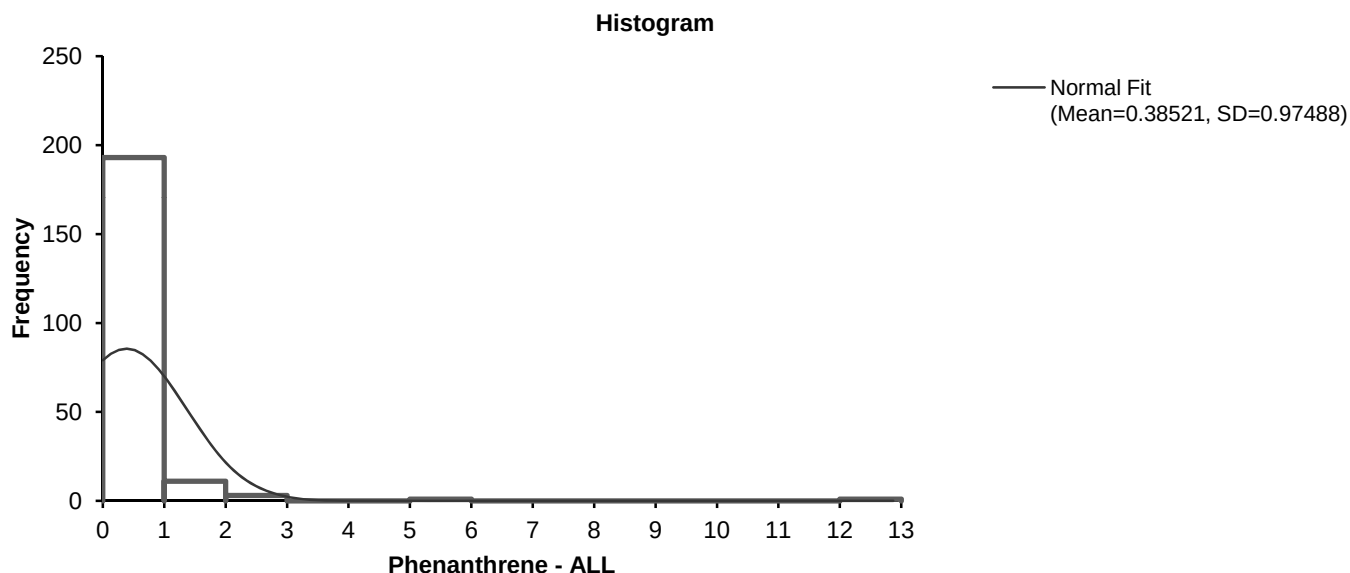
Naphthalene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.00072	0.000815	0.002000	0.000840 to 0.003500	0.005450	0.02900	0.004635
Area 1	24	0.00990	0.033000	0.105000	0.033000 to 0.140000	0.145833	0.38000	0.112833
Area 2	44	0.00120	0.006000	0.019500	0.008600 to 0.037000	0.156667	0.46000	0.150667
Area 3	47	0.00120	0.008083	0.019000	0.011000 to 0.033000	0.049333	0.39000	0.041250
Area 4	51	0.00190	0.007450	0.022000	0.011000 to 0.033000	0.122167	1.90000	0.114717

Test **Describe - Summary**

Ft. Totten Soil
Phenanthrene - ALL

Performed by AMEC

Date 10 February 2012



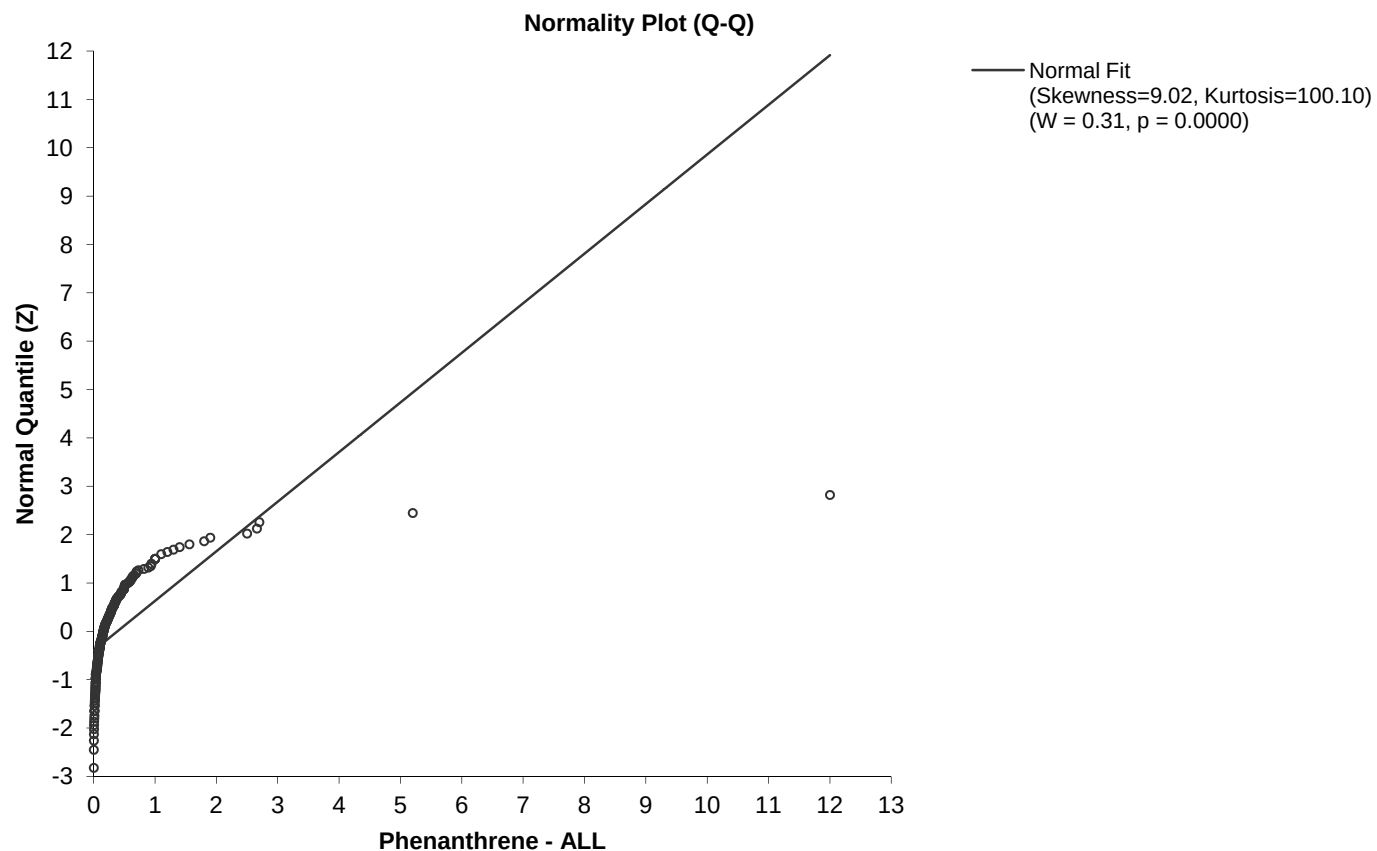
n	209		
Mean	0.38521	Median	0.16000
95% CI	0.25227 to 0.51815	96.2% CI	0.12000 to 0.20000
SE	0.067434		
Variance	0.95039	Range	11.9985
SD	0.97488	IQR	0.31533
95% CI	0.88952 to 1.07850		
CV	253.1%	Percentile	
Skewness	9.02	0th	0.00150 (minimum)
Kurtosis	100.10	0.5th	0.00154
		25th	0.05800 (1st quartile)
		50th	0.16000 (median)
		75th	0.37333 (3rd quartile)
		99.5th	9.41600
		100th	12.00000 (maximum)
Shapiro-Wilk W	0.31		
p	<0.0001		

Test | **Describe - Summary**

Ft. Totten Soil
Phenanthrene - ALL

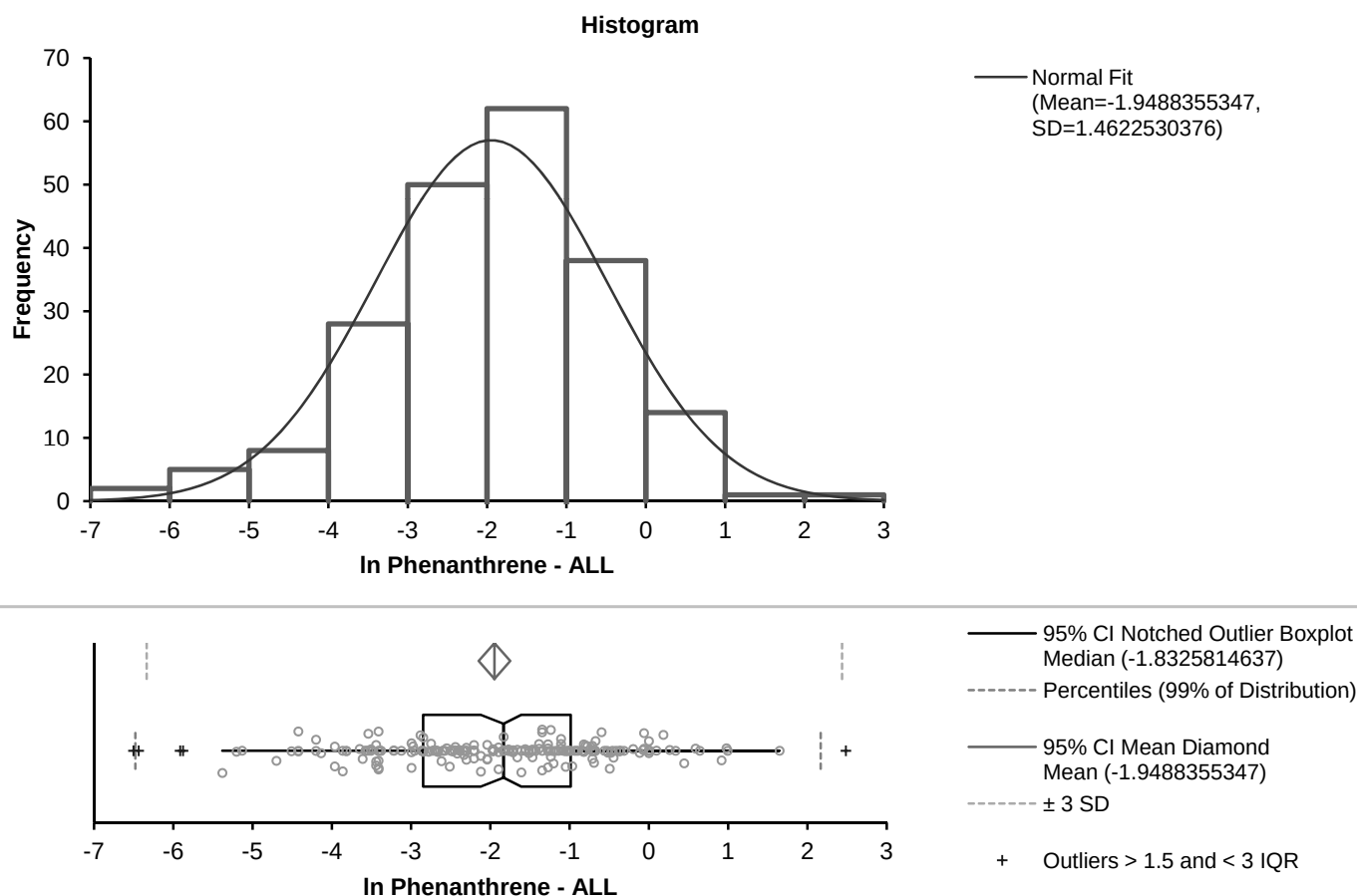
Performed by AMEC

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Test **Describe - Summary**
 Ft. Totten Soil
 In Phenanthrene - ALL
 Performed by AMEC

Date 10 February 2012



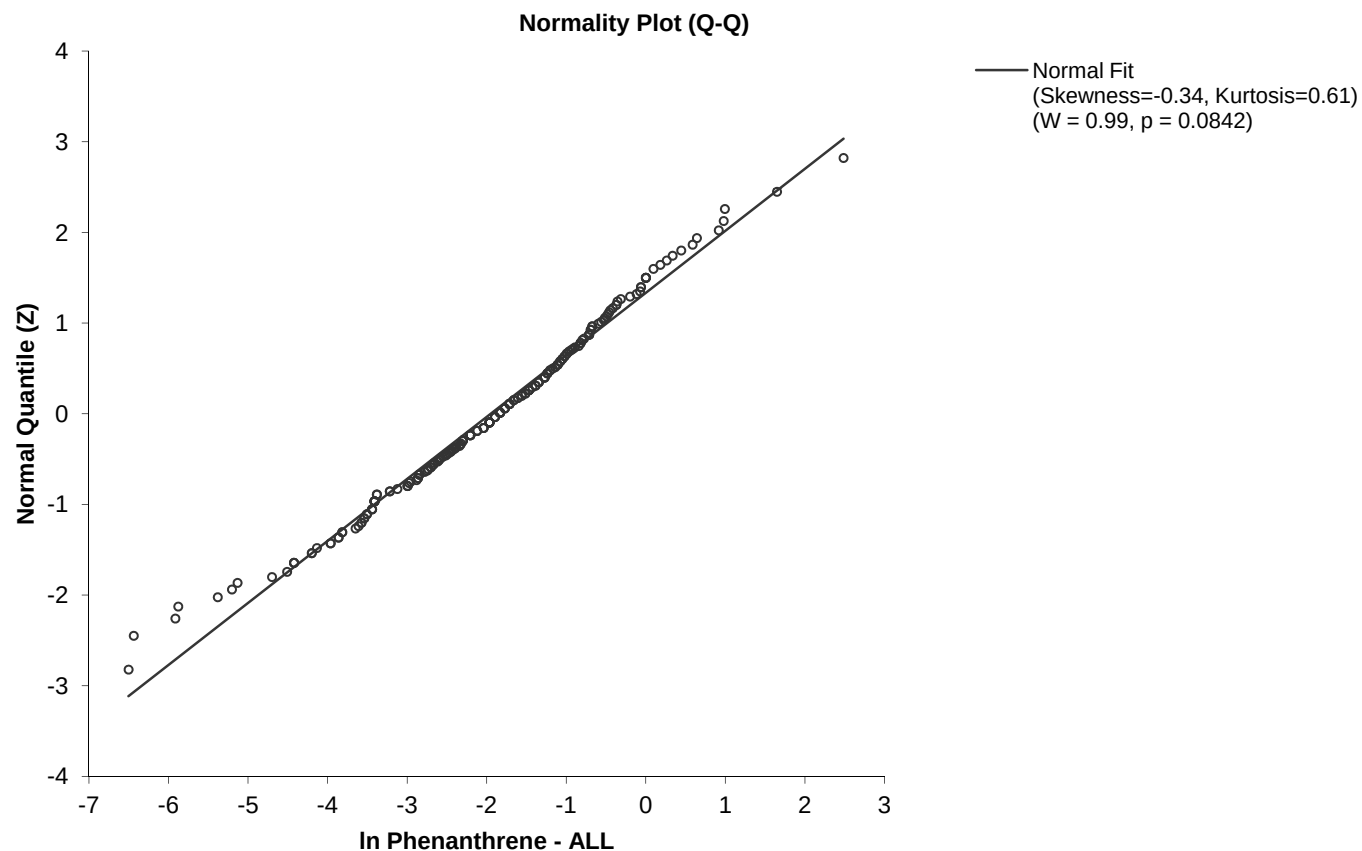
n	209		
Mean	-1.9488355347	Median	-1.8325814637
95% CI	-2.1482385567 to -1.74943251	96.2% CI	-2.1202635362 to -1.60943791
SE	0.101146158		
Variance	2.1381839461	Range	8.987196821
SD	1.4622530376	IQR	1.8619494108
95% CI	1.3342205975 to 1.61767860	Percentile	
CV	-75.0%	0th	-6.5022901709 (minimum)
Skewness	-0.34	0.5th	-6.4777655328
Kurtosis	0.61	25th	-2.8473122684 (1st quartile)
Shapiro-Wilk W	0.99	50th	-1.8325814637 (median)
p	0.084	75th	-0.9853628576 (3rd quartile)
		99.5th	2.1671324006
		100th	2.4849066498 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
In Phenanthrene - ALL

Performed by AMEC

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Test **Describe - Comparative**

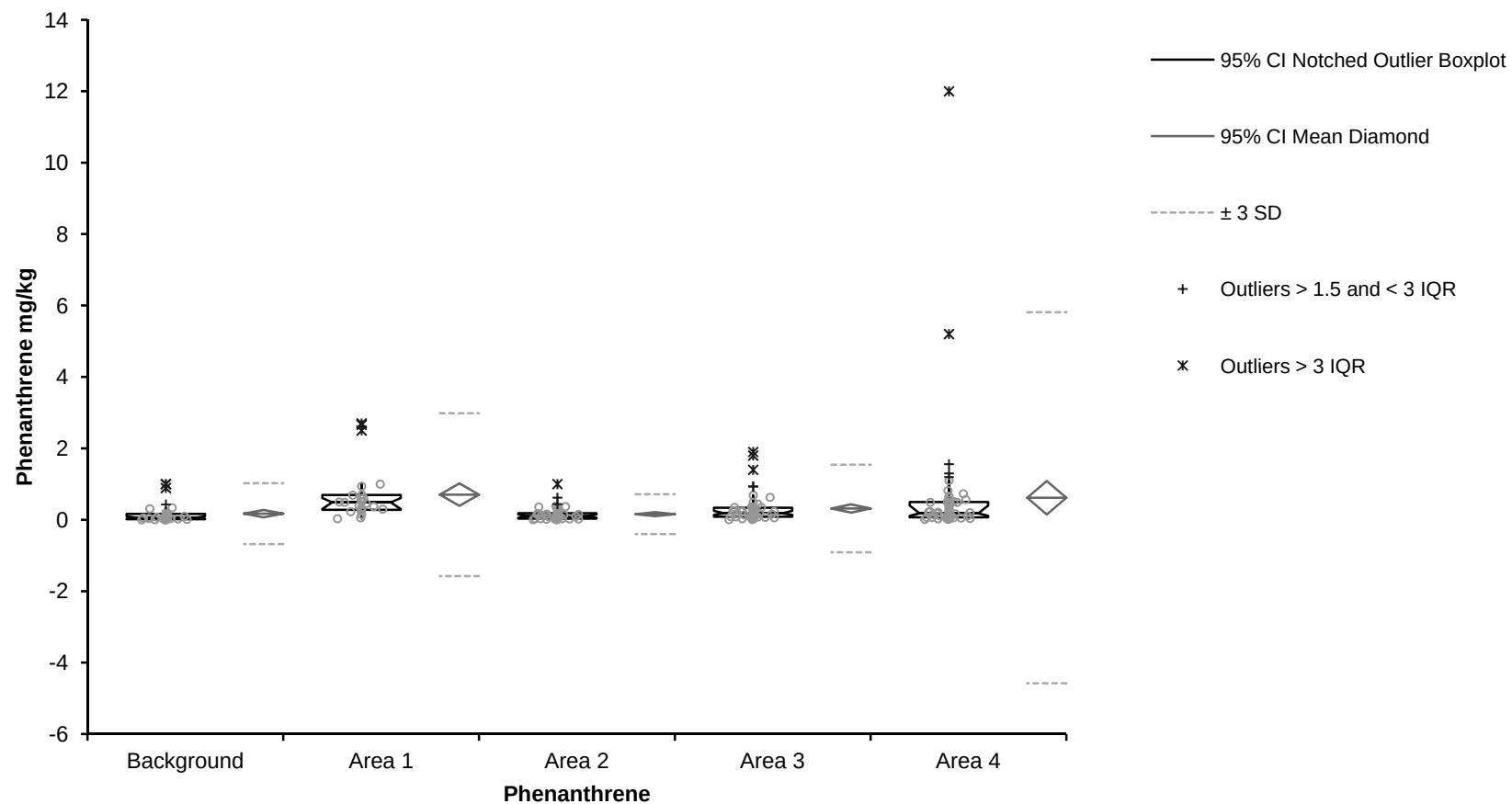
Ft. Totten Soil

Phenanthrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

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Test **Describe - Comparative**

Ft. Totten Soil

Phenanthrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Phenanthrene	n	Mean	95% CI	SE	SD
Background	31	0.17136	0.06728 to 0.27545	0.050967	0.283774
Area 1	25	0.70500	0.39121 to 1.01879	0.152035	0.760176
Area 2	45	0.15701	0.10112 to 0.21290	0.027731	0.186027
Area 3	51	0.31551	0.20039 to 0.43063	0.057315	0.409311
Area 4	55	0.61627	0.14809 to 1.08446	0.233523	1.731853

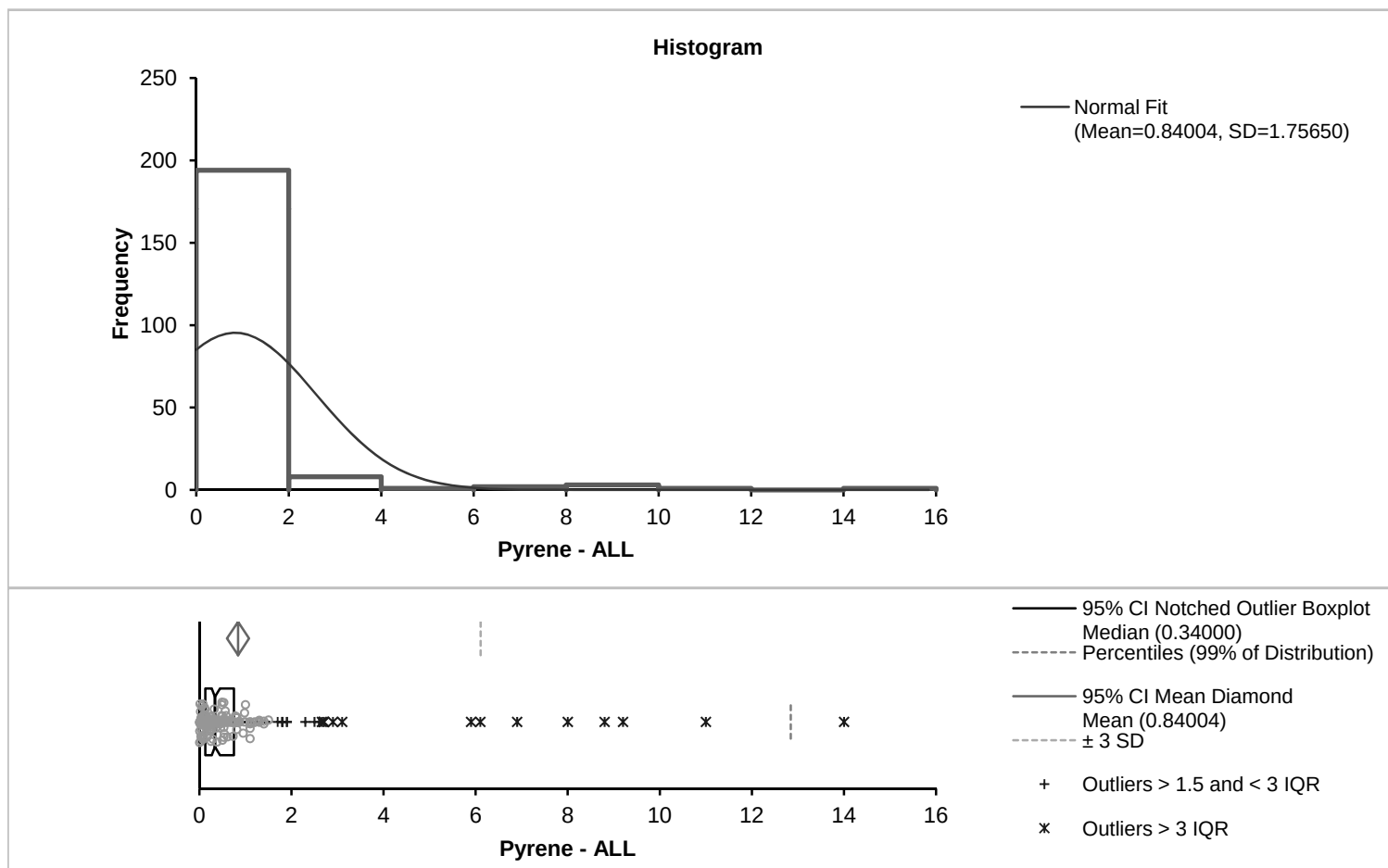
Phenanthrene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0015	0.01567	0.05700	0.02700 to 0.10000	0.16333	1.0000	0.14767
Area 1	25	0.0330	0.28000	0.49000	0.30000 to 0.61000	0.69333	2.7000	0.41333
Area 2	45	0.0027	0.03100	0.10000	0.05800 to 0.15000	0.18333	1.0000	0.15233
Area 3	51	0.0059	0.08483	0.18000	0.14000 to 0.25000	0.33833	1.9000	0.25350
Area 4	55	0.0120	0.06917	0.18000	0.11000 to 0.40000	0.49833	12.0000	0.42917

Test | **Describe - Summary**

Ft. Totten Soil
Pyrene - ALL

Performed by | AMEC

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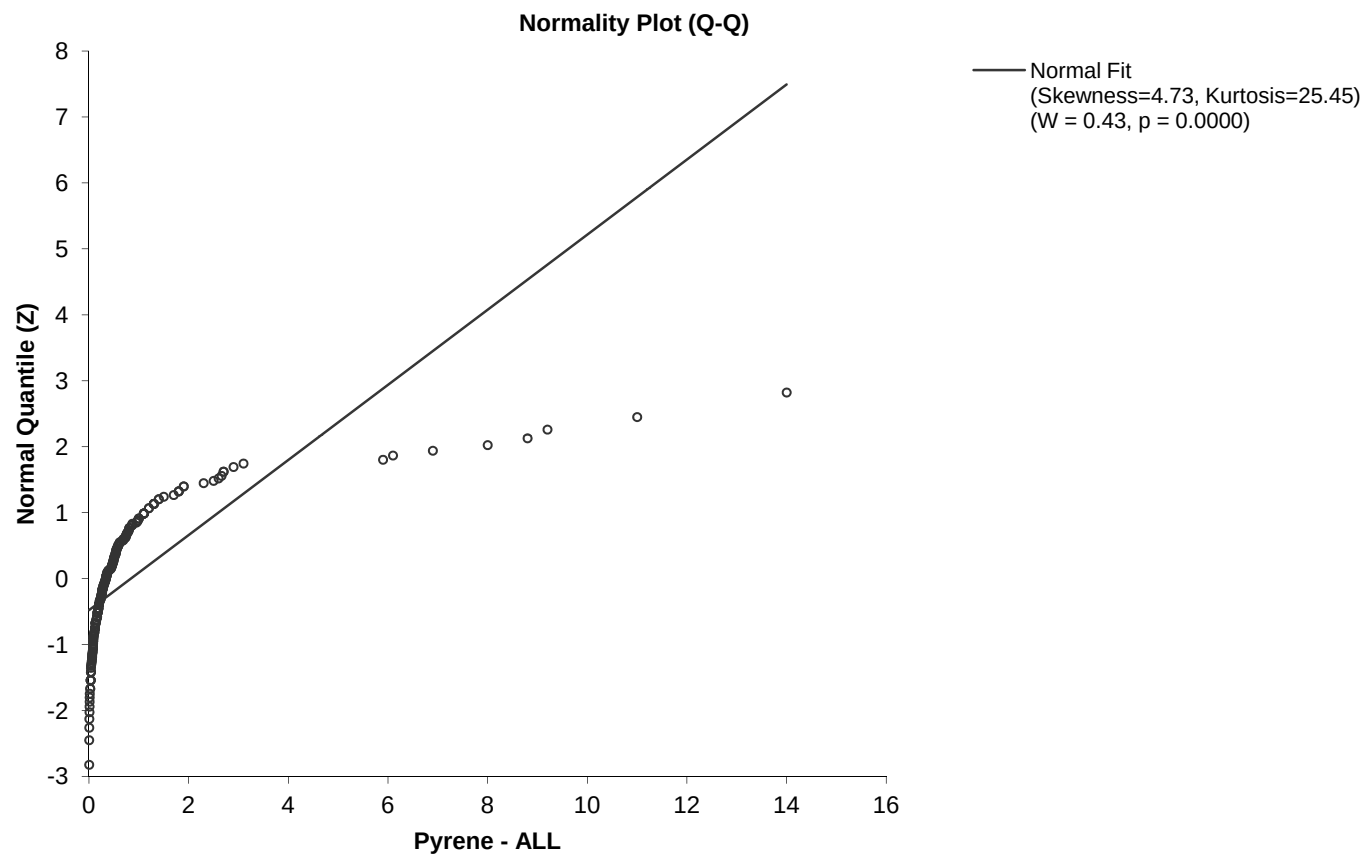
n	210		
Mean	0.84004	Median	0.34000
95% CI	0.60109 to 1.07899	95.5% CI	0.27000 to 0.45000
SE	0.121210		
Variance	3.08529	Range	13.9966
SD	1.75650	IQR	0.62083
95% CI	1.60304 to 1.94271		
CV	209.1%	Percentile	
Skewness	4.73	0th	0.00340 (minimum)
Kurtosis	25.45	0.5th	0.00352
		25th	0.13000 (1st quartile)
		50th	0.34000 (median)
		75th	0.75083 (3rd quartile)
		99.5th	12.84500
Shapiro-Wilk W	0.43	100th	14.00000 (maximum)
p	<0.0001		

Test | **Describe - Summary**

Ft. Totten Soil
Pyrene - ALL

Performed by AMEC

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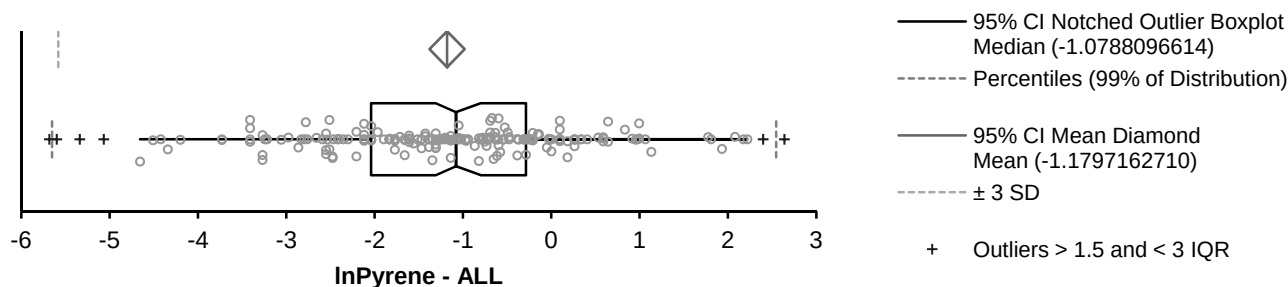
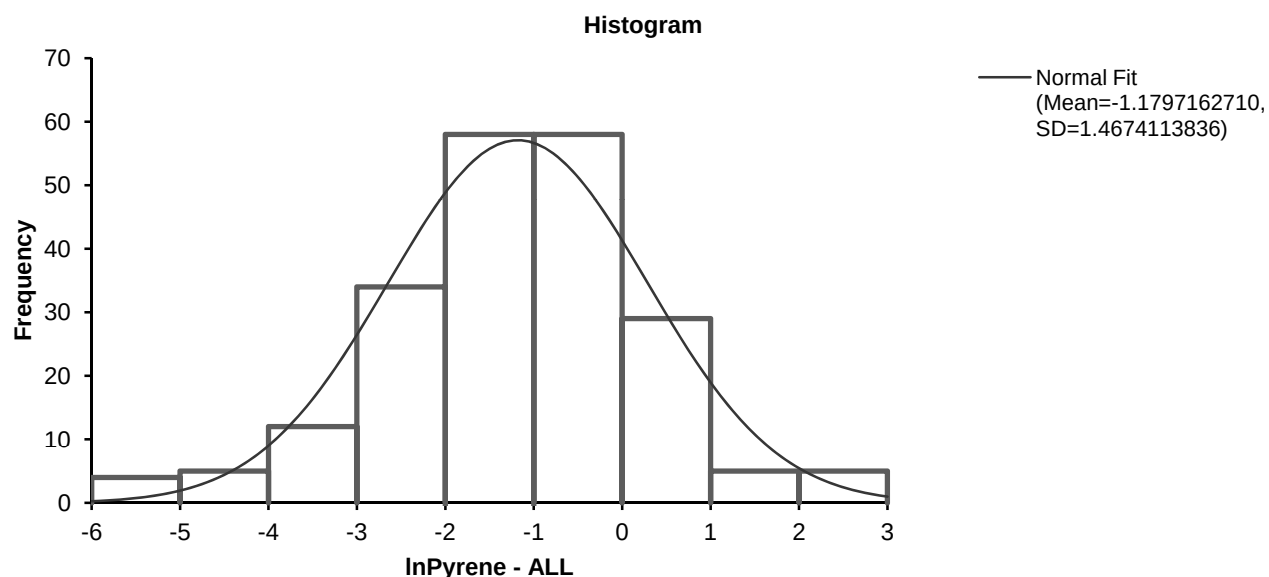


Test **Describe - Summary**

Ft. Totten Soil
InPyrene - ALL

Performed by AMEC

Date 11 February 2012



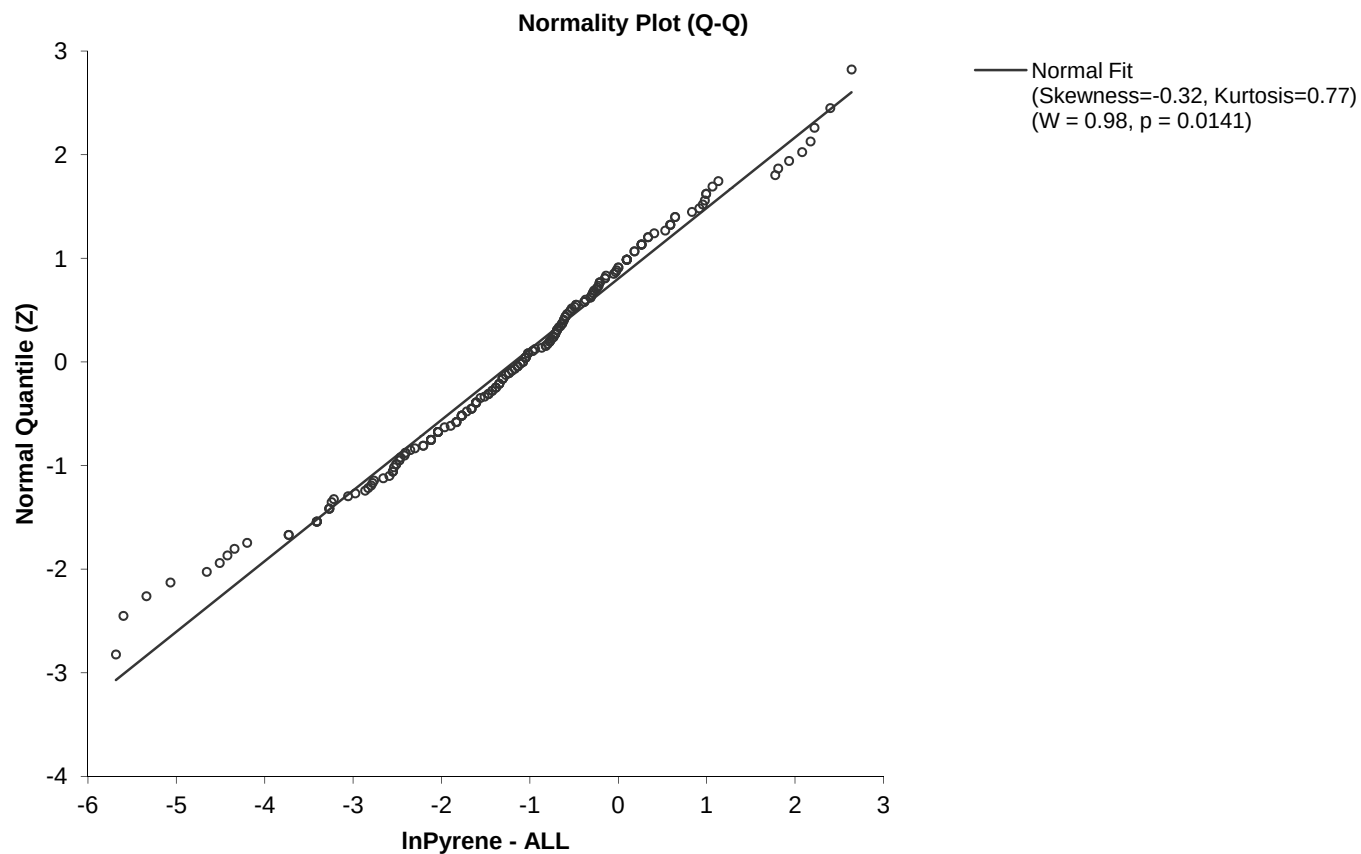
n	210		
Mean	-1.1797162710	Median	-1.0788096614
95% CI	-1.3793401192 to -0.98009242	95.5% CI	-1.3093333200 to -0.79850770
SE	0.1012610057		
Variance	2.1532961686	Range	8.323037177
SD	1.4674113836	IQR	1.7536425250
95% CI	1.3392075587 to 1.62297247	Percentile	
CV	-124.4%	0th	-5.6839798474 (minimum)
Skewness	-0.32	0.5th	-5.6514252530
Kurtosis	0.77	25th	-2.0402208285 (1st quartile)
Shapiro-Wilk W	0.98	50th	-1.0788096614 (median)
p	0.014	75th	-0.2865783036 (3rd quartile)
		99.5th	2.5462099377
		100th	2.6390573296 (maximum)

Test | **Describe - Summary**

Ft. Totten Soil
InPyrene - ALL

Performed by AMEC

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Test | Describe - Comparative

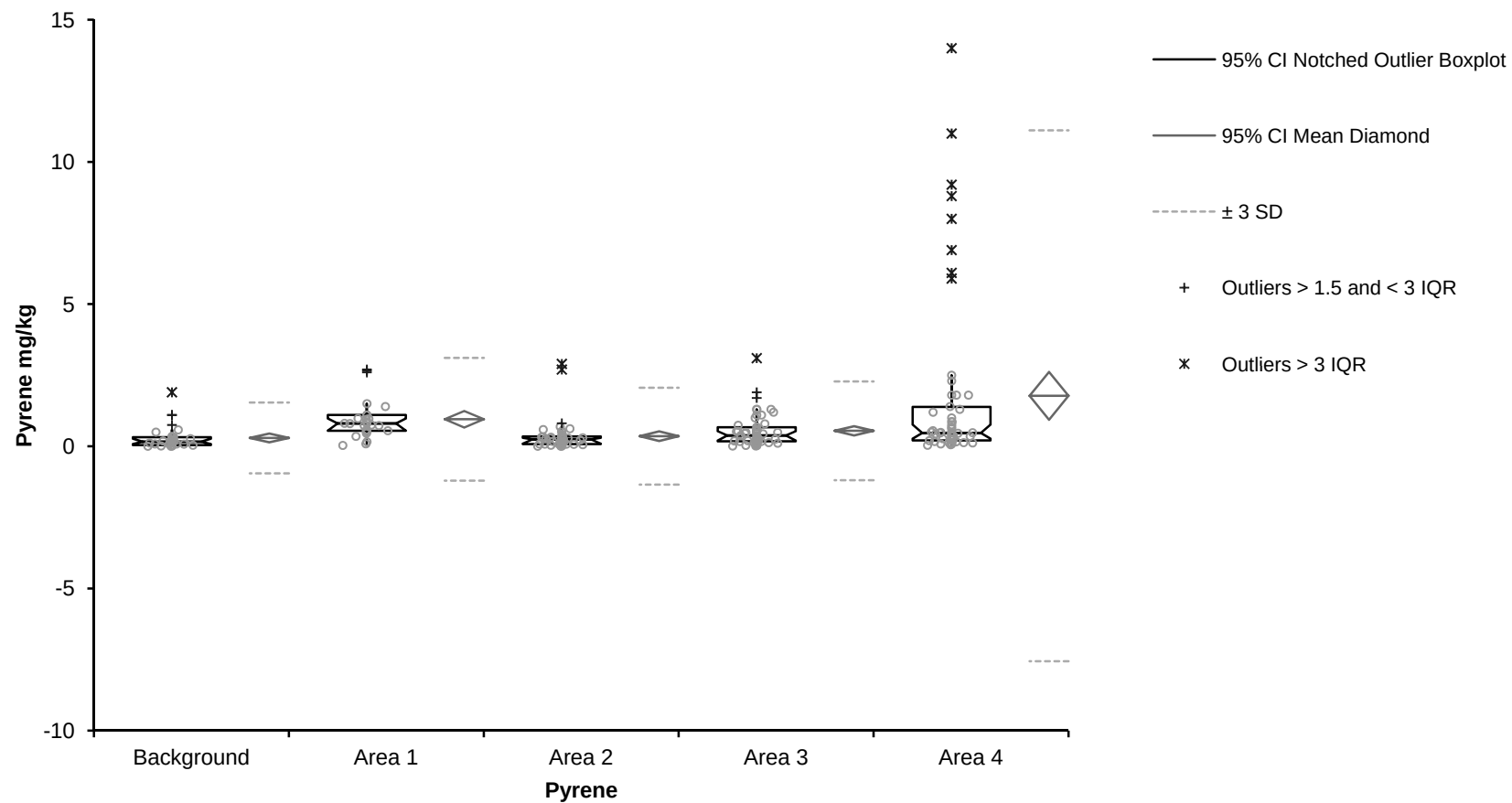
Ft. Totten Soil

Pyrene: Background, Area 1, Area 2, Area 3, Area 4

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Test **Describe - Comparative**

Ft. Totten Soil

Pyrene: Background, Area 1, Area 2, Area 3, Area 4

Performed by AMEC

Date

10 February 2012

Pyrene	n	Mean	95% CI	SE	SD
Background	31	0.29323	0.14066 to 0.44580	0.074705	0.415939
Area 1	26	0.95085	0.66034 to 1.24135	0.141055	0.719244
Area 2	45	0.35388	0.18325 to 0.52451	0.084664	0.567941
Area 3	51	0.54425	0.38137 to 0.70714	0.081098	0.579153
Area 4	55	1.77445	0.93319 to 2.61572	0.419610	3.111915

Pyrene	n	Min	1st Quartile	Median	95% CI	3rd Quartile	Max	IQR
Background	31	0.0034	0.03950	0.16000	0.07800 to 0.27000	0.31833	1.9000	0.27883
Area 1	26	0.0330	0.54583	0.80500	0.55000 to 0.98000	1.10000	2.7000	0.55417
Area 2	45	0.0037	0.07700	0.24000	0.09000 to 0.30000	0.34333	2.9000	0.26633
Area 3	51	0.0110	0.17333	0.38000	0.20000 to 0.53000	0.66833	3.1000	0.49500
Area 4	55	0.0380	0.20500	0.47000	0.27000 to 0.76000	1.38333	14.0000	1.17833