	A	B	C	D	E	F	G	H	I	J	K	L
1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation			2/18/2015 11:32:10 AM								
5	From File			EPC_015Surf_EU07.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												

	A	B	C	D	E	F	G	H	I	J	K	L
11	Antimony											
12												
13						General Statistics						
14					Total Number of Observations	12				Number of Distinct Observations		12
15										Number of Missing Observations		0
16					Minimum	44.57				Mean		103.8
17					Maximum	283				Median		85.6
18					SD	64.48				Std. Error of Mean		18.61
19					Coefficient of Variation	0.621				Skewness		2.179
20												
21						Normal GOF Test						
22					Shapiro Wilk Test Statistic	0.757				Shapiro Wilk GOF Test		
23					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
24					Lilliefors Test Statistic	0.231				Lilliefors GOF Test		
25					5% Lilliefors Critical Value	0.256				Data appear Normal at 5% Significance Level		
26						Data appear Approximate Normal at 5% Significance Level						
27												
28						Assuming Normal Distribution						
29					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
30					95% Student's-t UCL	137.2				95% Adjusted-CLT UCL (Chen-1995)		146.9
31										95% Modified-t UCL (Johnson-1978)		139.1
32												
33						Gamma GOF Test						
34					A-D Test Statistic	0.558				Anderson-Darling Gamma GOF Test		
35					5% A-D Critical Value	0.736				Detected data appear Gamma Distributed at 5% Significance Level		
36					K-S Test Statistic	0.182				Kolmogrov-Smirnoff Gamma GOF Test		
37					5% K-S Critical Value	0.246				Detected data appear Gamma Distributed at 5% Significance Level		
38						Detected data appear Gamma Distributed at 5% Significance Level						
39												
40						Gamma Statistics						
41					k hat (MLE)	3.987				k star (bias corrected MLE)		3.046
42					Theta hat (MLE)	26.02				Theta star (bias corrected MLE)		34.06
43					nu hat (MLE)	95.69				nu star (bias corrected)		73.1
44					MLE Mean (bias corrected)	103.8				MLE Sd (bias corrected)		59.45
45										Approximate Chi Square Value (0.05)		54.41
46					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		51.96
47												
48						Assuming Gamma Distribution						
49					95% Approximate Gamma UCL (use when n>=50))	139.4				95% Adjusted Gamma UCL (use when n<50)		146
50												
51						Lognormal GOF Test						
52					Shapiro Wilk Test Statistic	0.93				Shapiro Wilk Lognormal GOF Test		
53					5% Shapiro Wilk Critical Value	0.859				Data appear Lognormal at 5% Significance Level		
54					Lilliefors Test Statistic	0.165				Lilliefors Lognormal GOF Test		
55					5% Lilliefors Critical Value	0.256				Data appear Lognormal at 5% Significance Level		
56						Data appear Lognormal at 5% Significance Level						
57												
58						Lognormal Statistics						
59					Minimum of Logged Data	3.797				Mean of logged Data		4.511
60					Maximum of Logged Data	5.645				SD of logged Data		0.503
61												

	A	B	C	D	E	F	G	H	I	J	K	L
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	143.1				90% Chebyshev (MVUE) UCL		147.8
64					95% Chebyshev (MVUE) UCL	168.4				97.5% Chebyshev (MVUE) UCL		197.1
65					99% Chebyshev (MVUE) UCL	253.4						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
69												
70	**Nonparametric Distribution Free UCLs**											
71					95% CLT UCL	134.4				95% Jackknife UCL		137.2
72					95% Standard Bootstrap UCL	132.7				95% Bootstrap-t UCL		164.5
73					95% Hall's Bootstrap UCL	258.1				95% Percentile Bootstrap UCL		135.7
74					95% BCA Bootstrap UCL	146.7						
75					90% Chebyshev(Mean, Sd) UCL	159.6				95% Chebyshev(Mean, Sd) UCL		184.9
76					97.5% Chebyshev(Mean, Sd) UCL	220				99% Chebyshev(Mean, Sd) UCL		289
77												
78	**Suggested UCL to Use**											
79					95% Student's-t UCL	137.2						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												
86												

	A	B	C	D	E	F	G	H	I	J	K	L
87	Arsenic											
88												
89						General Statistics						
90					Total Number of Observations	12				Number of Distinct Observations		9
91										Number of Missing Observations		0
92					Minimum	6.04				Mean		12.14
93					Maximum	33.09				Median		10.74
94					SD	7.598				Std. Error of Mean		2.193
95					Coefficient of Variation	0.626				Skewness		2.29
96												
97						Normal GOF Test						
98					Shapiro Wilk Test Statistic	0.693				Shapiro Wilk GOF Test		
99					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
100					Lilliefors Test Statistic	0.393				Lilliefors GOF Test		
101					5% Lilliefors Critical Value	0.256				Data Not Normal at 5% Significance Level		
102						Data Not Normal at 5% Significance Level						
103												
104						Assuming Normal Distribution						
105					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
106					95% Student's-t UCL	16.08				95% Adjusted-CLT UCL (Chen-1995)		17.3
107										95% Modified-t UCL (Johnson-1978)		16.32
108												
109						Gamma GOF Test						
110					A-D Test Statistic	1.001				Anderson-Darling Gamma GOF Test		
111					5% A-D Critical Value	0.735				Data Not Gamma Distributed at 5% Significance Level		
112					K-S Test Statistic	0.347				Kolmogrov-Smirnoff Gamma GOF Test		
113					5% K-S Critical Value	0.246				Data Not Gamma Distributed at 5% Significance Level		
114						Data Not Gamma Distributed at 5% Significance Level						
115												
116						Gamma Statistics						
117					k hat (MLE)	4.194				k star (bias corrected MLE)		3.201
118					Theta hat (MLE)	2.895				Theta star (bias corrected MLE)		3.792
119					nu hat (MLE)	100.7				nu star (bias corrected)		76.82
120					MLE Mean (bias corrected)	12.14				MLE Sd (bias corrected)		6.785
121										Approximate Chi Square Value (0.05)		57.63
122					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		55.1
123												
124						Assuming Gamma Distribution						
125					95% Approximate Gamma UCL (use when n>=50))	16.18				95% Adjusted Gamma UCL (use when n<50)		16.92
126												
127						Lognormal GOF Test						
128					Shapiro Wilk Test Statistic	0.861				Shapiro Wilk Lognormal GOF Test		
129					5% Shapiro Wilk Critical Value	0.859				Data appear Lognormal at 5% Significance Level		
130					Lilliefors Test Statistic	0.312				Lilliefors Lognormal GOF Test		
131					5% Lilliefors Critical Value	0.256				Data Not Lognormal at 5% Significance Level		
132						Data appear Approximate Lognormal at 5% Significance Level						
133												
134						Lognormal Statistics						
135					Minimum of Logged Data	1.798				Mean of logged Data		2.373
136					Maximum of Logged Data	3.499				SD of logged Data		0.479
137												

	A	B	C	D	E	F	G	H	I	J	K	L
138	**Assuming Lognormal Distribution**											
139					95% H-UCL	16.33				90% Chebyshev (MVUE) UCL		16.95
140					95% Chebyshev (MVUE) UCL	19.24				97.5% Chebyshev (MVUE) UCL		22.41
141					99% Chebyshev (MVUE) UCL	28.65						
142												
143	**Nonparametric Distribution Free UCL Statistics**											
144	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
145												
146	**Nonparametric Distribution Free UCLs**											
147					95% CLT UCL	15.75				95% Jackknife UCL		16.08
148					95% Standard Bootstrap UCL	15.59				95% Bootstrap-t UCL		24.34
149					95% Hall's Bootstrap UCL	37.29				95% Percentile Bootstrap UCL		15.98
150					95% BCA Bootstrap UCL	17.7						
151					90% Chebyshev(Mean, Sd) UCL	18.72				95% Chebyshev(Mean, Sd) UCL		21.7
152					97.5% Chebyshev(Mean, Sd) UCL	25.84				99% Chebyshev(Mean, Sd) UCL		33.96
153												
154	**Suggested UCL to Use**											
155					95% Student's-t UCL	16.08				or 95% Modified-t UCL		16.32
156												
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
158	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
159	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
160	For additional insight the user may want to consult a statistician.											
161												
162												

	A	B	C	D	E	F	G	H	I	J	K	L
163	Cadmium											
164												
165						General Statistics						
166					Total Number of Observations	12				Number of Distinct Observations		5
167										Number of Missing Observations		0
168					Minimum	1				Mean		12.47
169					Maximum	17.97				Median		12
170					SD	4.387				Std. Error of Mean		1.266
171					Coefficient of Variation	0.352				Skewness		-1.43
172												
173						Normal GOF Test						
174					Shapiro Wilk Test Statistic	0.723				Shapiro Wilk GOF Test		
175					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
176					Lilliefors Test Statistic	0.374				Lilliefors GOF Test		
177					5% Lilliefors Critical Value	0.256				Data Not Normal at 5% Significance Level		
178						Data Not Normal at 5% Significance Level						
179												
180						Assuming Normal Distribution						
181					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
182					95% Student's-t UCL	14.75				95% Adjusted-CLT UCL (Chen-1995)		14
183										95% Modified-t UCL (Johnson-1978)		14.66
184												
185						Gamma GOF Test						
186					A-D Test Statistic	2.313				Anderson-Darling Gamma GOF Test		
187					5% A-D Critical Value	0.737				Data Not Gamma Distributed at 5% Significance Level		
188					K-S Test Statistic	0.46				Kolmogrov-Smirnoff Gamma GOF Test		
189					5% K-S Critical Value	0.247				Data Not Gamma Distributed at 5% Significance Level		
190						Data Not Gamma Distributed at 5% Significance Level						
191												
192						Gamma Statistics						
193					k hat (MLE)	3.476				k star (bias corrected MLE)		2.663
194					Theta hat (MLE)	3.588				Theta star (bias corrected MLE)		4.684
195					nu hat (MLE)	83.43				nu star (bias corrected)		63.91
196					MLE Mean (bias corrected)	12.47				MLE Sd (bias corrected)		7.644
197										Approximate Chi Square Value (0.05)		46.52
198					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		44.26
199												
200						Assuming Gamma Distribution						
201					95% Approximate Gamma UCL (use when n>=50))	17.14				95% Adjusted Gamma UCL (use when n<50)		18.01
202												
203						Lognormal GOF Test						
204					Shapiro Wilk Test Statistic	0.498				Shapiro Wilk Lognormal GOF Test		
205					5% Shapiro Wilk Critical Value	0.859				Data Not Lognormal at 5% Significance Level		
206					Lilliefors Test Statistic	0.475				Lilliefors Lognormal GOF Test		
207					5% Lilliefors Critical Value	0.256				Data Not Lognormal at 5% Significance Level		
208						Data Not Lognormal at 5% Significance Level						
209												
210						Lognormal Statistics						
211					Minimum of Logged Data	0				Mean of logged Data		2.373
212					Maximum of Logged Data	2.889				SD of logged Data		0.766
213												

	A	B	C	D	E	F	G	H	I	J	K	L
214					Assuming Lognormal Distribution							
215					95% H-UCL	25.74				90% Chebyshev (MVUE) UCL		23.69
216				95% Chebyshev (MVUE) UCL		28.09				97.5% Chebyshev (MVUE) UCL		34.2
217				99% Chebyshev (MVUE) UCL		46.2						
218												
219					Nonparametric Distribution Free UCL Statistics							
220					Data do not follow a Discernible Distribution (0.05)							
221												
222					Nonparametric Distribution Free UCLs							
223					95% CLT UCL	14.56				95% Jackknife UCL		14.75
224				95% Standard Bootstrap UCL		14.41				95% Bootstrap-t UCL		14.25
225				95% Hall's Bootstrap UCL		14.28				95% Percentile Bootstrap UCL		14.31
226				95% BCA Bootstrap UCL		13.89						
227				90% Chebyshev(Mean, Sd) UCL		16.27				95% Chebyshev(Mean, Sd) UCL		17.99
228				97.5% Chebyshev(Mean, Sd) UCL		20.38				99% Chebyshev(Mean, Sd) UCL		25.07
229												
230					Suggested UCL to Use							
231				95% Chebyshev (Mean, Sd) UCL		17.99						
232												
233					Recommended UCL exceeds the maximum observation							
234												
235					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
236					These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)							
237					and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.							
238					For additional insight the user may want to consult a statistician.							
239												
240					Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be							
241					reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.							
242												
243												

	A	B	C	D	E	F	G	H	I	J	K	L
244	Chromium											
245												
246						General Statistics						
247					Total Number of Observations	12				Number of Distinct Observations		7
248										Number of Missing Observations		0
249					Minimum	32.45				Mean		67.54
250					Maximum	85				Median		81.86
251					SD	23.41				Std. Error of Mean		6.757
252					Coefficient of Variation	0.347				Skewness		-0.797
253												
254						Normal GOF Test						
255					Shapiro Wilk Test Statistic	0.697				Shapiro Wilk GOF Test		
256					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
257					Lilliefors Test Statistic	0.325				Lilliefors GOF Test		
258					5% Lilliefors Critical Value	0.256				Data Not Normal at 5% Significance Level		
259						Data Not Normal at 5% Significance Level						
260												
261						Assuming Normal Distribution						
262					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
263					95% Student's-t UCL	79.67				95% Adjusted-CLT UCL (Chen-1995)		76.99
264										95% Modified-t UCL (Johnson-1978)		79.42
265												
266						Gamma GOF Test						
267					A-D Test Statistic	1.836				Anderson-Darling Gamma GOF Test		
268					5% A-D Critical Value	0.731				Data Not Gamma Distributed at 5% Significance Level		
269					K-S Test Statistic	0.353				Kolmogrov-Smirnoff Gamma GOF Test		
270					5% K-S Critical Value	0.246				Data Not Gamma Distributed at 5% Significance Level		
271						Data Not Gamma Distributed at 5% Significance Level						
272												
273						Gamma Statistics						
274					k hat (MLE)	7.212				k star (bias corrected MLE)		5.465
275					Theta hat (MLE)	9.365				Theta star (bias corrected MLE)		12.36
276					nu hat (MLE)	173.1				nu star (bias corrected)		131.2
277					MLE Mean (bias corrected)	67.54				MLE Sd (bias corrected)		28.89
278										Approximate Chi Square Value (0.05)		105.7
279					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		102.2
280												
281						Assuming Gamma Distribution						
282					95% Approximate Gamma UCL (use when n>=50))	83.8				95% Adjusted Gamma UCL (use when n<50)		86.66
283												
284						Lognormal GOF Test						
285					Shapiro Wilk Test Statistic	0.694				Shapiro Wilk Lognormal GOF Test		
286					5% Shapiro Wilk Critical Value	0.859				Data Not Lognormal at 5% Significance Level		
287					Lilliefors Test Statistic	0.353				Lilliefors Lognormal GOF Test		
288					5% Lilliefors Critical Value	0.256				Data Not Lognormal at 5% Significance Level		
289						Data Not Lognormal at 5% Significance Level						
290												
291						Lognormal Statistics						
292					Minimum of Logged Data	3.48				Mean of logged Data		4.142
293					Maximum of Logged Data	4.443				SD of logged Data		0.417
294												

	A	B	C	D	E	F	G	H	I	J	K	L
295					Assuming Lognormal Distribution							
296					95% H-UCL	88.79				90% Chebyshev (MVUE) UCL		93.16
297					95% Chebyshev (MVUE) UCL	104.5				97.5% Chebyshev (MVUE) UCL		120.2
298					99% Chebyshev (MVUE) UCL	151.2						
299												
300					Nonparametric Distribution Free UCL Statistics							
301					Data do not follow a Discernible Distribution (0.05)							
302												
303					Nonparametric Distribution Free UCLs							
304					95% CLT UCL	78.65				95% Jackknife UCL		79.67
305					95% Standard Bootstrap UCL	78.11				95% Bootstrap-t UCL		77.59
306					95% Hall's Bootstrap UCL	76.68				95% Percentile Bootstrap UCL		76.79
307					95% BCA Bootstrap UCL	76.22						
308					90% Chebyshev(Mean, Sd) UCL	87.81				95% Chebyshev(Mean, Sd) UCL		96.99
309					97.5% Chebyshev(Mean, Sd) UCL	109.7				99% Chebyshev(Mean, Sd) UCL		134.8
310												
311					Suggested UCL to Use							
312					95% Student's-t UCL	79.67				or 95% Modified-t UCL		79.42
313												
314					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
315					These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)							
316					and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.							
317					For additional insight the user may want to consult a statistician.							
318												
319					Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be							
320					reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.							
321												
322												

	A	B	C	D	E	F	G	H	I	J	K	L
323	Copper											
324												
325					General Statistics							
326					Total Number of Observations	12				Number of Distinct Observations		11
327										Number of Missing Observations		0
328					Minimum	25.24				Mean		344.2
329					Maximum	1803				Median		138.9
330					SD	500.7				Std. Error of Mean		144.5
331					Coefficient of Variation	1.455				Skewness		2.572
332												
333					Normal GOF Test							
334					Shapiro Wilk Test Statistic	0.659				Shapiro Wilk GOF Test		
335					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
336					Lilliefors Test Statistic	0.262				Lilliefors GOF Test		
337					5% Lilliefors Critical Value	0.256				Data Not Normal at 5% Significance Level		
338					Data Not Normal at 5% Significance Level							
339												
340					Assuming Normal Distribution							
341					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
342					95% Student's-t UCL	603.8				95% Adjusted-CLT UCL (Chen-1995)		696.6
343										95% Modified-t UCL (Johnson-1978)		621.6
344												
345					Gamma GOF Test							
346					A-D Test Statistic	0.511				Anderson-Darling Gamma GOF Test		
347					5% A-D Critical Value	0.769				Detected data appear Gamma Distributed at 5% Significance Level		
348					K-S Test Statistic	0.166				Kolmogrov-Smirnoff Gamma GOF Test		
349					5% K-S Critical Value	0.256				Detected data appear Gamma Distributed at 5% Significance Level		
350					Detected data appear Gamma Distributed at 5% Significance Level							
351												
352					Gamma Statistics							
353					k hat (MLE)	0.704				k star (bias corrected MLE)		0.584
354					Theta hat (MLE)	489				Theta star (bias corrected MLE)		589.9
355					nu hat (MLE)	16.89				nu star (bias corrected)		14
356					MLE Mean (bias corrected)	344.2				MLE Sd (bias corrected)		450.6
357										Approximate Chi Square Value (0.05)		6.574
358					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		5.815
359												
360					Assuming Gamma Distribution							
361					95% Approximate Gamma UCL (use when n>=50)	733.2				95% Adjusted Gamma UCL (use when n<50)		829
362												
363					Lognormal GOF Test							
364					Shapiro Wilk Test Statistic	0.922				Shapiro Wilk Lognormal GOF Test		
365					5% Shapiro Wilk Critical Value	0.859				Data appear Lognormal at 5% Significance Level		
366					Lilliefors Test Statistic	0.176				Lilliefors Lognormal GOF Test		
367					5% Lilliefors Critical Value	0.256				Data appear Lognormal at 5% Significance Level		
368					Data appear Lognormal at 5% Significance Level							
369												
370					Lognormal Statistics							
371					Minimum of Logged Data	3.228				Mean of logged Data		4.983
372					Maximum of Logged Data	7.497				SD of logged Data		1.418
373												

	A	B	C	D	E	F	G	H	I	J	K	L
374					Assuming Lognormal Distribution							
375					95% H-UCL	1960				90% Chebyshev (MVUE) UCL		811.9
376					95% Chebyshev (MVUE) UCL	1023				97.5% Chebyshev (MVUE) UCL		1315
377					99% Chebyshev (MVUE) UCL	1890						
378												
379					Nonparametric Distribution Free UCL Statistics							
380					Data appear to follow a Discernible Distribution at 5% Significance Level							
381												
382					Nonparametric Distribution Free UCLs							
383					95% CLT UCL	581.9				95% Jackknife UCL		603.8
384					95% Standard Bootstrap UCL	572.1				95% Bootstrap-t UCL		899.8
385					95% Hall's Bootstrap UCL	1457				95% Percentile Bootstrap UCL		597
386					95% BCA Bootstrap UCL	741						
387					90% Chebyshev(Mean, Sd) UCL	777.8				95% Chebyshev(Mean, Sd) UCL		974.2
388					97.5% Chebyshev(Mean, Sd) UCL	1247				99% Chebyshev(Mean, Sd) UCL		1782
389												
390					Suggested UCL to Use							
391					95% Adjusted Gamma UCL	829						
392												
393					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
394					These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)							
395					and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.							
396					For additional insight the user may want to consult a statistician.							
397												
398												

	A	B	C	D	E	F	G	H	I	J	K	L
399	Iron											
400												
401					General Statistics							
402					Total Number of Observations	12				Number of Distinct Observations		12
403										Number of Missing Observations		0
404					Minimum	10461				Mean		26619
405					Maximum	60522				Median		21041
406					SD	14633				Std. Error of Mean		4224
407					Coefficient of Variation	0.55				Skewness		1.15
408												
409					Normal GOF Test							
410					Shapiro Wilk Test Statistic	0.887				Shapiro Wilk GOF Test		
411					5% Shapiro Wilk Critical Value	0.859				Data appear Normal at 5% Significance Level		
412					Lilliefors Test Statistic	0.203				Lilliefors GOF Test		
413					5% Lilliefors Critical Value	0.256				Data appear Normal at 5% Significance Level		
414					Data appear Normal at 5% Significance Level							
415												
416					Assuming Normal Distribution							
417					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
418					95% Student's-t UCL	34205				95% Adjusted-CLT UCL (Chen-1995)		35065
419										95% Modified-t UCL (Johnson-1978)		34439
420												
421					Gamma GOF Test							
422					A-D Test Statistic	0.36				Anderson-Darling Gamma GOF Test		
423					5% A-D Critical Value	0.736				Detected data appear Gamma Distributed at 5% Significance Level		
424					K-S Test Statistic	0.187				Kolmogrov-Smirnoff Gamma GOF Test		
425					5% K-S Critical Value	0.246				Detected data appear Gamma Distributed at 5% Significance Level		
426					Detected data appear Gamma Distributed at 5% Significance Level							
427												
428					Gamma Statistics							
429					k hat (MLE)	4.033				k star (bias corrected MLE)		3.08
430					Theta hat (MLE)	6601				Theta star (bias corrected MLE)		8642
431					nu hat (MLE)	96.79				nu star (bias corrected)		73.93
432					MLE Mean (bias corrected)	26619				MLE Sd (bias corrected)		15167
433										Approximate Chi Square Value (0.05)		55.13
434					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		52.65
435												
436					Assuming Gamma Distribution							
437					95% Approximate Gamma UCL (use when n>=50))	35698				95% Adjusted Gamma UCL (use when n<50)		37373
438												
439					Lognormal GOF Test							
440					Shapiro Wilk Test Statistic	0.96				Shapiro Wilk Lognormal GOF Test		
441					5% Shapiro Wilk Critical Value	0.859				Data appear Lognormal at 5% Significance Level		
442					Lilliefors Test Statistic	0.161				Lilliefors Lognormal GOF Test		
443					5% Lilliefors Critical Value	0.256				Data appear Lognormal at 5% Significance Level		
444					Data appear Lognormal at 5% Significance Level							
445												
446					Lognormal Statistics							
447					Minimum of Logged Data	9.255				Mean of logged Data		10.06
448					Maximum of Logged Data	11.01				SD of logged Data		0.526
449												

	A	B	C	D	E	F	G	H	I	J	K	L
450	Assuming Lognormal Distribution											
451					95% H-UCL	37948				90% Chebyshev (MVUE) UCL		38944
452					95% Chebyshev (MVUE) UCL	44566				97.5% Chebyshev (MVUE) UCL		52369
453					99% Chebyshev (MVUE) UCL	67696						
454												
455	Nonparametric Distribution Free UCL Statistics											
456	Data appear to follow a Discernible Distribution at 5% Significance Level											
457												
458	Nonparametric Distribution Free UCLs											
459					95% CLT UCL	33567				95% Jackknife UCL		34205
460					95% Standard Bootstrap UCL	33468				95% Bootstrap-t UCL		36730
461					95% Hall's Bootstrap UCL	36328				95% Percentile Bootstrap UCL		33741
462					95% BCA Bootstrap UCL	34511						
463					90% Chebyshev(Mean, Sd) UCL	39291				95% Chebyshev(Mean, Sd) UCL		45031
464					97.5% Chebyshev(Mean, Sd) UCL	52998				99% Chebyshev(Mean, Sd) UCL		68648
465												
466	Suggested UCL to Use											
467					95% Student's-t UCL	34205						
468												
469	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
470	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
471	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
472	For additional insight the user may want to consult a statistician.											
473												
474												

	A	B	C	D	E	F	G	H	I	J	K	L
475	Manganese											
476												
477					General Statistics							
478					Total Number of Observations	12				Number of Distinct Observations		12
479										Number of Missing Observations		0
480					Minimum	159.4				Mean		716.4
481					Maximum	2903				Median		576.7
482					SD	720.7				Std. Error of Mean		208
483					Coefficient of Variation	1.006				Skewness		2.939
484												
485					Normal GOF Test							
486					Shapiro Wilk Test Statistic	0.612				Shapiro Wilk GOF Test		
487					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
488					Lilliefors Test Statistic	0.327				Lilliefors GOF Test		
489					5% Lilliefors Critical Value	0.256				Data Not Normal at 5% Significance Level		
490					Data Not Normal at 5% Significance Level							
491												
492					Assuming Normal Distribution							
493					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
494					95% Student's-t UCL	1090				95% Adjusted-CLT UCL (Chen-1995)		1247
495										95% Modified-t UCL (Johnson-1978)		1119
496												
497					Gamma GOF Test							
498					A-D Test Statistic	0.738				Anderson-Darling Gamma GOF Test		
499					5% A-D Critical Value	0.742				Detected data appear Gamma Distributed at 5% Significance Level		
500					K-S Test Statistic	0.23				Kolmogrov-Smirnoff Gamma GOF Test		
501					5% K-S Critical Value	0.249				Detected data appear Gamma Distributed at 5% Significance Level		
502					Detected data appear Gamma Distributed at 5% Significance Level							
503												
504					Gamma Statistics							
505					k hat (MLE)	1.952				k star (bias corrected MLE)		1.52
506					Theta hat (MLE)	366.9				Theta star (bias corrected MLE)		471.3
507					nu hat (MLE)	46.86				nu star (bias corrected)		36.48
508					MLE Mean (bias corrected)	716.4				MLE Sd (bias corrected)		581.1
509										Approximate Chi Square Value (0.05)		23.65
510					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		22.09
511												
512					Assuming Gamma Distribution							
513					95% Approximate Gamma UCL (use when n>=50)	1105				95% Adjusted Gamma UCL (use when n<50)		1183
514												
515					Lognormal GOF Test							
516					Shapiro Wilk Test Statistic	0.933				Shapiro Wilk Lognormal GOF Test		
517					5% Shapiro Wilk Critical Value	0.859				Data appear Lognormal at 5% Significance Level		
518					Lilliefors Test Statistic	0.176				Lilliefors Lognormal GOF Test		
519					5% Lilliefors Critical Value	0.256				Data appear Lognormal at 5% Significance Level		
520					Data appear Lognormal at 5% Significance Level							
521												
522					Lognormal Statistics							
523					Minimum of Logged Data	5.071				Mean of logged Data		6.297
524					Maximum of Logged Data	7.974				SD of logged Data		0.721
525												

	A	B	C	D	E	F	G	H	I	J	K	L
526					Assuming Lognormal Distribution							
527					95% H-UCL	1198				90% Chebyshev (MVUE) UCL		1133
528					95% Chebyshev (MVUE) UCL	1336				97.5% Chebyshev (MVUE) UCL		1617
529					99% Chebyshev (MVUE) UCL	2169						
530												
531					Nonparametric Distribution Free UCL Statistics							
532					Data appear to follow a Discernible Distribution at 5% Significance Level							
533												
534					Nonparametric Distribution Free UCLs							
535					95% CLT UCL	1059				95% Jackknife UCL		1090
536					95% Standard Bootstrap UCL	1048				95% Bootstrap-t UCL		1755
537					95% Hall's Bootstrap UCL	2627				95% Percentile Bootstrap UCL		1089
538					95% BCA Bootstrap UCL	1260						
539					90% Chebyshev(Mean, Sd) UCL	1341				95% Chebyshev(Mean, Sd) UCL		1623
540					97.5% Chebyshev(Mean, Sd) UCL	2016				99% Chebyshev(Mean, Sd) UCL		2786
541												
542					Suggested UCL to Use							
543					95% Adjusted Gamma UCL	1183						
544												
545					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
546					These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)							
547					and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.							
548					For additional insight the user may want to consult a statistician.							
549												
550												

	A	B	C	D	E	F	G	H	I	J	K	L
551	Nickel											
552												
553					General Statistics							
554					Total Number of Observations	12				Number of Distinct Observations		11
555										Number of Missing Observations		0
556					Minimum	65				Mean		243.6
557					Maximum	834.4				Median		101.5
558					SD	250.4				Std. Error of Mean		72.27
559					Coefficient of Variation	1.028				Skewness		1.568
560												
561					Normal GOF Test							
562					Shapiro Wilk Test Statistic	0.758				Shapiro Wilk GOF Test		
563					5% Shapiro Wilk Critical Value	0.859				Data Not Normal at 5% Significance Level		
564					Lilliefors Test Statistic	0.289				Lilliefors GOF Test		
565					5% Lilliefors Critical Value	0.256				Data Not Normal at 5% Significance Level		
566					Data Not Normal at 5% Significance Level							
567												
568					Assuming Normal Distribution							
569					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
570					95% Student's-t UCL	373.4				95% Adjusted-CLT UCL (Chen-1995)		397.4
571										95% Modified-t UCL (Johnson-1978)		378.8
572												
573					Gamma GOF Test							
574					A-D Test Statistic	0.901				Anderson-Darling Gamma GOF Test		
575					5% A-D Critical Value	0.75				Data Not Gamma Distributed at 5% Significance Level		
576					K-S Test Statistic	0.278				Kolmogrov-Smirnoff Gamma GOF Test		
577					5% K-S Critical Value	0.251				Data Not Gamma Distributed at 5% Significance Level		
578					Data Not Gamma Distributed at 5% Significance Level							
579												
580					Gamma Statistics							
581					k hat (MLE)	1.313				k star (bias corrected MLE)		1.04
582					Theta hat (MLE)	185.6				Theta star (bias corrected MLE)		234.2
583					nu hat (MLE)	31.51				nu star (bias corrected)		24.96
584					MLE Mean (bias corrected)	243.6				MLE Sd (bias corrected)		238.8
585										Approximate Chi Square Value (0.05)		14.58
586					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		13.39
587												
588					Assuming Gamma Distribution							
589					95% Approximate Gamma UCL (use when n>=50))	417				95% Adjusted Gamma UCL (use when n<50)		454.3
590												
591					Lognormal GOF Test							
592					Shapiro Wilk Test Statistic	0.85				Shapiro Wilk Lognormal GOF Test		
593					5% Shapiro Wilk Critical Value	0.859				Data Not Lognormal at 5% Significance Level		
594					Lilliefors Test Statistic	0.242				Lilliefors Lognormal GOF Test		
595					5% Lilliefors Critical Value	0.256				Data appear Lognormal at 5% Significance Level		
596					Data appear Approximate Lognormal at 5% Significance Level							
597												
598					Lognormal Statistics							
599					Minimum of Logged Data	4.174				Mean of logged Data		5.069
600					Maximum of Logged Data	6.727				SD of logged Data		0.935
601												

	A	B	C	D	E	F	G	H	I	J	K	L
602	**Assuming Lognormal Distribution**											
603					95% H-UCL	541.5				90% Chebyshev (MVUE) UCL		436.5
604					95% Chebyshev (MVUE) UCL	528				97.5% Chebyshev (MVUE) UCL		655
605					99% Chebyshev (MVUE) UCL	904.5						
606												
607	**Nonparametric Distribution Free UCL Statistics**											
608	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
609												
610	**Nonparametric Distribution Free UCLs**											
611					95% CLT UCL	362.5				95% Jackknife UCL		373.4
612					95% Standard Bootstrap UCL	357.5				95% Bootstrap-t UCL		454.7
613					95% Hall's Bootstrap UCL	551.7				95% Percentile Bootstrap UCL		365.8
614					95% BCA Bootstrap UCL	393.1						
615					90% Chebyshev(Mean, Sd) UCL	460.4				95% Chebyshev(Mean, Sd) UCL		558.6
616					97.5% Chebyshev(Mean, Sd) UCL	694.9				99% Chebyshev(Mean, Sd) UCL		962.7
617												
618	**Suggested UCL to Use**											
619					95% Chebyshev (Mean, Sd) UCL	558.6						
620												
621	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
622	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
623	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
624	For additional insight the user may want to consult a statistician.											
625												
626												

	A	B	C	D	E	F	G	H	I	J	K	L
627	PAH, Total											
628												
629						General Statistics						
630					Total Number of Observations	12				Number of Distinct Observations		1
631										Number of Missing Observations		0
632					Minimum	0.135				Mean		0.135
633					Maximum	0.135				Median		0.135
634												
635						Warning: There is only one distinct observation value in this data set - resulting in '0' variance!						
636						ProUCL (or any other software) should not be used on such a data set!						
637						The data set for variable PAH, Total was not processed!						
638												
639						If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.						
640						The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).						
641												
642												
643												

	A	B	C	D	E	F	G	H	I	J	K	L
644	PCB, Total											
645												
646					General Statistics							
647				Total Number of Observations		12				Number of Distinct Observations		4
648										Number of Missing Observations		0
649				Minimum		0.34				Mean		9.195
650				Maximum		50				Median		5
651				SD		13.09				Std. Error of Mean		3.779
652				Coefficient of Variation		1.424				Skewness		3.24
653												
654					Normal GOF Test							
655				Shapiro Wilk Test Statistic		0.478				Shapiro Wilk GOF Test		
656				5% Shapiro Wilk Critical Value		0.859				Data Not Normal at 5% Significance Level		
657				Lilliefors Test Statistic		0.392				Lilliefors GOF Test		
658				5% Lilliefors Critical Value		0.256				Data Not Normal at 5% Significance Level		
659					Data Not Normal at 5% Significance Level							
660												
661					Assuming Normal Distribution							
662				95% Normal UCL						95% UCLs (Adjusted for Skewness)		
663				95% Student's-t UCL		15.98				95% Adjusted-CLT UCL (Chen-1995)		19.19
664										95% Modified-t UCL (Johnson-1978)		16.57
665												
666					Gamma GOF Test							
667				A-D Test Statistic		1.812				Anderson-Darling Gamma GOF Test		
668				5% A-D Critical Value		0.755				Data Not Gamma Distributed at 5% Significance Level		
669				K-S Test Statistic		0.345				Kolmogrov-Smirnoff Gamma GOF Test		
670				5% K-S Critical Value		0.252				Data Not Gamma Distributed at 5% Significance Level		
671					Data Not Gamma Distributed at 5% Significance Level							
672												
673					Gamma Statistics							
674				k hat (MLE)		1.087				k star (bias corrected MLE)		0.871
675				Theta hat (MLE)		8.457				Theta star (bias corrected MLE)		10.56
676				nu hat (MLE)		26.09				nu star (bias corrected)		20.9
677				MLE Mean (bias corrected)		9.195				MLE Sd (bias corrected)		9.852
678										Approximate Chi Square Value (0.05)		11.52
679				Adjusted Level of Significance		0.029				Adjusted Chi Square Value		10.47
680												
681					Assuming Gamma Distribution							
682				95% Approximate Gamma UCL (use when n>=50))		16.68				95% Adjusted Gamma UCL (use when n<50)		18.36
683												
684					Lognormal GOF Test							
685				Shapiro Wilk Test Statistic		0.729				Shapiro Wilk Lognormal GOF Test		
686				5% Shapiro Wilk Critical Value		0.859				Data Not Lognormal at 5% Significance Level		
687				Lilliefors Test Statistic		0.387				Lilliefors Lognormal GOF Test		
688				5% Lilliefors Critical Value		0.256				Data Not Lognormal at 5% Significance Level		
689					Data Not Lognormal at 5% Significance Level							
690												
691					Lognormal Statistics							
692				Minimum of Logged Data		-1.079				Mean of logged Data		1.693
693				Maximum of Logged Data		3.912				SD of logged Data		1.104
694												

	A	B	C	D	E	F	G	H	I	J	K	L
695					Assuming Lognormal Distribution							
696					95% H-UCL	28.11				90% Chebyshev (MVUE) UCL		18.87
697				95% Chebyshev (MVUE) UCL		23.21				97.5% Chebyshev (MVUE) UCL		29.23
698				99% Chebyshev (MVUE) UCL		41.05						
699												
700					Nonparametric Distribution Free UCL Statistics							
701					Data do not follow a Discernible Distribution (0.05)							
702												
703					Nonparametric Distribution Free UCLs							
704					95% CLT UCL	15.41				95% Jackknife UCL		15.98
705				95% Standard Bootstrap UCL		N/A				95% Bootstrap-t UCL		N/A
706				95% Hall's Bootstrap UCL		N/A				95% Percentile Bootstrap UCL		N/A
707				95% BCA Bootstrap UCL		N/A						
708				90% Chebyshev(Mean, Sd) UCL		20.53				95% Chebyshev(Mean, Sd) UCL		25.67
709				97.5% Chebyshev(Mean, Sd) UCL		32.8				99% Chebyshev(Mean, Sd) UCL		46.8
710												
711					Suggested UCL to Use							
712				95% Chebyshev (Mean, Sd) UCL		25.67						
713												
714	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
715	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
716	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
717	For additional insight the user may want to consult a statistician.											
718												
719												

	A	B	C	D	E	F	G	H	I	J	K	L
720	Thallium											
721												
722					General Statistics							
723					Total Number of Observations	12				Number of Distinct Observations		1
724										Number of Missing Observations		0
725					Minimum	0.3				Mean		0.3
726					Maximum	0.3				Median		0.3
727												
728					Warning: There is only one distinct observation value in this data set - resulting in '0' variance!							
729					ProUCL (or any other software) should not be used on such a data set!							
730					The data set for variable Thallium was not processed!							
731												
732					If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.							
733					The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).							
734												
735												
736												

	A	B	C	D	E	F	G	H	I	J	K	L
737	Uranium											
738												
739					General Statistics							
740					Total Number of Observations	12				Number of Distinct Observations		10
741										Number of Missing Observations		0
742					Minimum	7.36				Mean		41
743					Maximum	82.92				Median		44.88
744					SD	24.86				Std. Error of Mean		7.176
745					Coefficient of Variation	0.606				Skewness		0.263
746												
747					Normal GOF Test							
748					Shapiro Wilk Test Statistic	0.931				Shapiro Wilk GOF Test		
749					5% Shapiro Wilk Critical Value	0.859				Data appear Normal at 5% Significance Level		
750					Lilliefors Test Statistic	0.218				Lilliefors GOF Test		
751					5% Lilliefors Critical Value	0.256				Data appear Normal at 5% Significance Level		
752					Data appear Normal at 5% Significance Level							
753												
754					Assuming Normal Distribution							
755					95% Normal UCL					95% UCLs (Adjusted for Skewness)		
756					95% Student's-t UCL	53.89				95% Adjusted-CLT UCL (Chen-1995)		53.39
757										95% Modified-t UCL (Johnson-1978)		53.98
758												
759					Gamma GOF Test							
760					A-D Test Statistic	0.434				Anderson-Darling Gamma GOF Test		
761					5% A-D Critical Value	0.74				Detected data appear Gamma Distributed at 5% Significance Level		
762					K-S Test Statistic	0.196				Kolmogrov-Smirnoff Gamma GOF Test		
763					5% K-S Critical Value	0.248				Detected data appear Gamma Distributed at 5% Significance Level		
764					Detected data appear Gamma Distributed at 5% Significance Level							
765												
766					Gamma Statistics							
767					k hat (MLE)	2.416				k star (bias corrected MLE)		1.868
768					Theta hat (MLE)	16.97				Theta star (bias corrected MLE)		21.95
769					nu hat (MLE)	57.99				nu star (bias corrected)		44.83
770					MLE Mean (bias corrected)	41				MLE Sd (bias corrected)		30
771										Approximate Chi Square Value (0.05)		30.47
772					Adjusted Level of Significance	0.029				Adjusted Chi Square Value		28.67
773												
774					Assuming Gamma Distribution							
775					95% Approximate Gamma UCL (use when n>=50))	60.32				95% Adjusted Gamma UCL (use when n<50)		64.1
776												
777					Lognormal GOF Test							
778					Shapiro Wilk Test Statistic	0.916				Shapiro Wilk Lognormal GOF Test		
779					5% Shapiro Wilk Critical Value	0.859				Data appear Lognormal at 5% Significance Level		
780					Lilliefors Test Statistic	0.2				Lilliefors Lognormal GOF Test		
781					5% Lilliefors Critical Value	0.256				Data appear Lognormal at 5% Significance Level		
782					Data appear Lognormal at 5% Significance Level							
783												
784					Lognormal Statistics							
785					Minimum of Logged Data	1.996				Mean of logged Data		3.493
786					Maximum of Logged Data	4.418				SD of logged Data		0.755
787												

	A	B	C	D	E	F	G	H	I	J	K	L
788	**Assuming Lognormal Distribution**											
789					95% H-UCL	77.16				90% Chebyshev (MVUE) UCL		71.53
790					95% Chebyshev (MVUE) UCL	84.7				97.5% Chebyshev (MVUE) UCL		103
791					99% Chebyshev (MVUE) UCL	138.9						
792												
793	**Nonparametric Distribution Free UCL Statistics**											
794	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
795												
796	**Nonparametric Distribution Free UCLs**											
797					95% CLT UCL	52.8				95% Jackknife UCL		53.89
798					95% Standard Bootstrap UCL	52.34				95% Bootstrap-t UCL		54.9
799					95% Hall's Bootstrap UCL	52.31				95% Percentile Bootstrap UCL		51.95
800					95% BCA Bootstrap UCL	52.08						
801					90% Chebyshev(Mean, Sd) UCL	62.53				95% Chebyshev(Mean, Sd) UCL		72.28
802					97.5% Chebyshev(Mean, Sd) UCL	85.82				99% Chebyshev(Mean, Sd) UCL		112.4
803												
804	**Suggested UCL to Use**											
805					95% Student's-t UCL	53.89						
806												
807	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
808	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
809	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
810	For additional insight the user may want to consult a statistician.											
811												
812												

	A	B	C	D	E	F	G	H	I	J	K	L
813	Uranium-234											
814												
815						General Statistics						
816					Total Number of Observations	12				Number of Distinct Observations		1
817										Number of Missing Observations		0
818					Minimum	6.49				Mean		6.49
819					Maximum	6.49				Median		6.49
820												
821					Warning: There is only one distinct observation value in this data set - resulting in '0' variance!							
822					ProUCL (or any other software) should not be used on such a data set!							
823					The data set for variable Uranium-234 was not processed!							
824												
825					If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.							
826					The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).							
827												
828												
829												
830	Uranium-235											
831												
832						General Statistics						
833					Total Number of Observations	12				Number of Distinct Observations		1
834										Number of Missing Observations		0
835					Minimum	0.45				Mean		0.45
836					Maximum	0.45				Median		0.45
837												
838					Warning: There is only one distinct observation value in this data set - resulting in '0' variance!							
839					ProUCL (or any other software) should not be used on such a data set!							
840					The data set for variable Uranium-235 was not processed!							
841												
842					If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.							
843					The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).							
844												
845												
846												
847	Uranium-238											
848												
849						General Statistics						
850					Total Number of Observations	12				Number of Distinct Observations		1
851										Number of Missing Observations		0
852					Minimum	8.05				Mean		8.05
853					Maximum	8.05				Median		8.05
854												
855					Warning: There is only one distinct observation value in this data set - resulting in '0' variance!							
856					ProUCL (or any other software) should not be used on such a data set!							
857					The data set for variable Uranium-238 was not processed!							
858												
859					If possible, compute and collect Data Quality Objectives (DQOs) based sample size and analytical results.							
860					The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).							
861												
862												